

Video Electronics Standards Association

Monitor Timing Standard

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Video Electronics Standards Association

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VESA and Industry Standards and Guidelines
for Computer Display Monitor Timing (DMT)

Version 1.0, Revision 10
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This document includes all current VESA Monitor Timing Standards & Guidelines. 'Guidelines' are subjected to the same VESA review and approval process as 'Standards', but are designated as 'Guidelines' to ease concerns on the part of some VESA members that VESA is 'endorsing' these timing standards. 'Guidelines' designations are typically used for lower resolutions or lower refresh rates that are in common industry use in lower-performance systems. For reference, this document also includes a number of <u>industry standard</u> timings (defacto standards) for the computer industry.

This document is the primary means of distribution for all VESA Monitor Timing Standards and Guidelines. The standards and guidelines covered by this document are outlined on the following page.

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Standards and Guidelines Summary

l http://l	obs.elecfans.	c Morizontal	术论Pixelhttr	://www.elecfar	s. Omiginal子	
Resolution	Refresh Rate	Frequency	Frequency	Standard Type	Document	Date
640 x 350	85 Hz	37.9 kHz	31.500 MHz	VESA Standard	VDMTPROP	3/1/96
640 x 400	85 Hz	37.9 kHz	31.500 MHz	VESA Standard	VDMTPROP	3/1/96
720 x 400	85 Hz	37.9 kHz	35.500 MHz	VESA Standard	VDMTPROP	3/1/96
640 x 480	60 Hz	31.5 kHz	25.175 MHz	Industry Standard	n/a	n/a
	72 Hz	37.9 kHz	31.500 MHz	VESA Standard	VS901101	12/2/92
	75 Hz	37.5 kHz	31.500 MHz	VESA Standard	VDMT75HZ	10/4/93
	85 Hz	43.3 kHz	36.000 MHz	VESA Standard	VDMTPROP	3/1/96
800 x 600	56 Hz	35.1 kHz	36.000 MHz	VESA Guidelines	VG900601	8/6/90
	60 Hz	37.9 kHz	40.000 MHz	VESA Guidelines	VG900602	8/6/90
	72 Hz	48.1 kHz	50.000 MHz	VESA Standard	VS900603A	8/6/90
	75 Hz	46.9 kHz	49.500 MHz	VESA Standard	VDMT75HZ	10/4/93
	85 Hz	53.7 kHz	56.250 MHz	VESA Standard	VDMTPROP	3/1/96
848 x 480	60 Hz	31.0 kHz	33.750 MHz	VESA Standard	AddDMT	3/4/03
1024 x 768	43 Hz Interlaced	35.5 kHz	44.900 MHz	Industry Standard	n/a	n/a
	60 Hz	48.4 kHz	65.000 MHz	VESA Guidelines	VG901101A	9/10/91
	70 Hz	56.5 kHz	75.000 MHz	VESA Standard	VS910801-2	8/9/91
	75 Hz	60.0 kHz	78.750 MHz	VESA Standard	VDMT75HZ	10/4/93
	85 Hz	68.7 kHz	94.500 MHz	VESA Standard	VDMTPROP	3/1/96
1152 x 864	75 Hz	67.5 kHz	108.000 MHz	VESA Standard	VDMTPROP	3/1/96
1280 x 768	60 Hz	47.4 kHz	68.250 MHz	CVT Red. Blanking	AddDMT	3/4/03
	60 Hz	47.8 kHz	79.500 MHz	CVT	AddDMT	3/4/03
	75 Hz	60.3 kHz	102.250 MHz	CVT	AddDMT	3/4/03
	85 Hz	68.6 kHz	117.500 MHz	CVT	AddDMT	3/4/03
1280 x 960	60 Hz	60.0 kHz	108.000 MHz	VESA Standard	VDMTPROP	3/1/96
	85 Hz	85.9 kHz	148.500 MHz	VESA Standard	VDMTPROP	3/1/96
1280 x 1024	60 Hz	64.0 kHz	108.000 MHz	VESA Standard	VDMTREV	12/18/96
	75 Hz	$80.0 \mathrm{kHz}$	135.000 MHz	VESA Standard	VDMT75HZ	10/4/93
	85 Hz	91.1 kHz	157.500 MHz	VESA Standard	VDMTPROP	3/1/96
1360 x 768	60 Hz	47.7 kHz	85.500 MHz	VESA Standard	AddDMT	3/4/03
1400 x 1050	60 Hz	64.7 kHz	101.000 MHz	CVT Red. Blanking	AddDMT	5/13/03
	60 Hz	65.3 kHz	121.750 MHz	CVT	AddDMT	3/4/03
	75 Hz	82.3 kHz	156.000 MHz	CVT	AddDMT	3/4/03
	85 Hz	85.0 kHz	179.500 MHz	CVT	AddDMT	3/4/03
1440 x 900	60 Hz	55.5 kHz	88.750 MHz	CVT Red. Blanking	CVT 1.30MA	7/14/04
[60 Hz	59.9 kHz	106.500 MHz	CVT	CVT 1.30MA	7/14/04
[75 Hz	75.0 kHz	136.750 MHz	CVT	CVT 1.30MA	7/14/04
	85 Hz	84.8 kHz	157.000 MHz	CVT	CVT 1.30MA	7/14/04
1600 x 1200	60 Hz	75.0 kHz	162.000 MHz	VESA Standard	VDMTREV	12/18/96
[65 Hz	81.3 kHz	175.500 MHz	VESA Standard	VDMTREV	12/18/96
[70 Hz	87.5 kHz	189.000 MHz	VESA Standard	VDMTREV	12/18/96
[75 Hz	93.8 kHz	202.500 MHz	VESA Standard	VDMTREV	12/18/96
	85 Hz	106.3 kHz	229.500 MHz	VESA Standard	VDMTREV	12/18/96

Resolution//	h Refresh Rates	Horizontal Frequency	Pixel Frequency + r	. Standard Type an	Original Document 2	∟.⊬ Dat e
1680 x 1050	bbs: erectans. 60 Hz	64.7 kHz	119.000 MHz	CVT Red. Blanking	CVT 1.76MA	7/14/04
	60 Hz	65.3 kHz	146.250 MHz	CVT	CVT 1.76MA	7/14/04
	75 Hz	74.9 kHz	187.000 MHz	CVT	CVT 1.76MA	7/14/04
	85 Hz	93.9 kHz	214.75 MHz	CVT	CVT 1.76MA	7/14/04
1792 x 1344	60 Hz	83.64 kHz	204.750 MHz	VESA Standard	VDMTREV	9/17/98
	75 Hz	106.27 kHz	261.000 MHz	VESA Standard	VDMTREV	9/17/98
1856 x 1392	60 Hz	86.33 kHz	218.250 MHz	VESA Standard	VDMTREV	9/17/98
	75 Hz	112.50 kHz	288.000 MHz	VESA Standard	VDMTREV	9/17/98
1920 x 1200	60 Hz	74.0 kHz	154.000 MHz	CVT Red. Blanking	AddDMT	3/4/03
	60 Hz	74.6 kHz	193.250 MHz	CVT	AddDMT	3/4/03
	75 Hz	94.0 kHz	245.250 MHz	CVT	AddDMT	3/4/03
	85 Hz	107.2 kHz	281.250 MHz	CVT	AddDMT	3/4/03
1920 x 1440	60 Hz	90.000 kHz	234.000 MHz	VESA Standard	VDMTREV	9/17/98
	75 Hz	112.50 kHz	297.000 MHz	VESA Standard	VDMTREV	9/17/98

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3. Support

If you have a product that incorporates any of the standards in this document, you should ask the company that manufactured your product for assistance. If you are a display or controller manufacturer, VESA can assist you with any clarifications you may require. All comments or reported errors should be submitted in writing to VESA using one of the following methods:

FAX: 408-957-9277, Technical Support

Email: support@vesa.org

Mail: Video Electronics Standards Association., 920 Hillview Ct., Suite 140, Milpitas, CA 95035

4. Revision History

Version 1.0	Revision 0.0	9/12/94	Initial Release
Version 1.0	Revision 0.1	10/10/94	Fixed sync polarity of 1024x768 at 60 & 70 Hz.
			Removed page numbers so new timings can be added
Version 1.0	Revision 0.2	11/4/94	Added notes & comments to clarify timing of
			interlaced
			modes
Version 1.0	Revision 0.3	2/16/95	Fixed miscellaneous typos
Version 1.0	Revision 0.4	5/4/95	Added EDID IDs for DDC; fixed 1024x768 Interlace
			vertical times
Version 1.0	Revision 0.5	6/14/95	Added BIOS Mode #'s; fixed miscellaneous typos
Version 1.0	Revision 0.6	4/10/96	Added new modes from VDMTPROP V1.0 ŘÔ.6
			passed on 3/96 (85 Hz standards, 1152x864@75,
			1280x960@60)
	Revision 0.6a		Reformatted to Word 6 for electronic distribution
Version 1.0	Revision 0.7	12/18/96	Added new modes from VDMTREV V1.0 R0.8
			passed on 12/96 (1280x1024 @ 60, 1600x1200@60,
			65, 70, 75 and 85)
Version 1.0	Revision 0.8	7/22/98	Added 1792x1344, 1856x1392, & 1920x1440, all at
			60 and 75 Hz. Corrected EDID code for
			1600x1200@85 Hz
Version 1.0	Revision 0.9	8/21/03	Added 848x480@60Hz, CVT 1280x768 timings,
			1360x768@60Hz, CVT 1400x1050 timings, and CVT
			1920x1200 timings based on US & Japan Timing
	5	- /4 4 /0 4	Workgroup requests.
Version 1.0	Revision 1.0	7/14/04	Added CVT 1.30MA (1440 x 900) and CVT 1.76MA
			(1680 x 1050) formats.

Contents

http://bbs.elecfans.com 电子技术论坛 http://www.elecfans.com	电子发烧表
1. Trademarks	
2. Patents	5
3. Support	5
4. Revision History	5
Timing Specifications for 640x350 at 85 Hz	7
Timing Specifications for 640x400 at 85 Hz	8
Timing Specifications for 720x400 at 85 Hz	9
Timing Specifications for 640x480 at 60, 72, 75 & 85 Hz	10-13
Timing Specifications for 800x600 at 56, 60, 72, 75 & 85 Hz	14-18
Timing Specifications for 848x480 at 60 Hz	
Timing Specifications for 1024x768 at 43, 60, 70, 75, & 85 Hz	20-24
Timing Specifications for 1152x864 at 75 Hz	
Timing Specifications for CVT 0.89M9-R (1280x768 Reduced Blanking)	
Timing Specifications for CVT 0.89MR (1280x768 at 60, 75& 85 Hz)	
Timing Specifications for 1280x960 at 60 & 85 Hz	
Timing Specifications for 1280x1024 at 60, 75 & 85 Hz	
Timing Specifications for 1360x768 at 60 Hz	
Timing Specifications for CVT 1.47M3-R (1400x1050 Reduced Blanking)	
Timing Specifications for CVT 1.47M3 (1400x1050 at 60, 75 & 85 Hz)	
Timing Specifications for CVT 1.30MA-R (1440x900 Reduced Blanking)	
Timing Specifications for CVT 1.30MA (1440x900 at 60, 75 & 85 Hz)	
Timing Specifications for 1600x1200 at 60, 65, 70, 75, & 85 Hz	
Timing Specifications for CVT 1.76MA-R (1680x1050 Reduced Blanking)	
Timing Specifications for CVT 1.76MA (1680x1050 at 60, 75 & 85 Hz)	
Timing Specifications for 1792x1344 at 60 & 75 Hz	
Timing Specifications for 1856x1392 at 60 & 75 Hz	
Timing Specifications for CVT 2.30MA-R (1900x1200 Reduced Blanking)	
Timing Specifications for CVT 2.30MA (1900x1200 at 60, 75 & 85 Hz)	
Timing Specifications for 1020v1/40 at 60. & 75 Hz	

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Proposed: 5/7/95 Adopted: 3/1/96

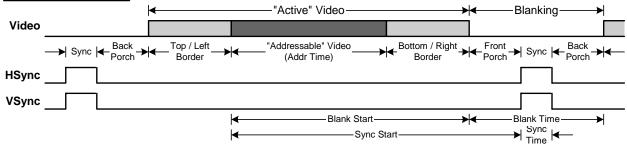
Resolution: 640 x 350 at 85 Hz (non-interlaced)

EDID ID: n/a BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) Readjusted Timing Data

```
Timing Name
                    = 640 \times 350 @ 85Hz:
Hor Pixels
                       640:
                                       // Pixels
Ver Pixels
                     = 350;
                                       // Lines
Hor Frequency
                     = 37.861;
                                       // KHz
                                                        26.4 usec
                                                                     / line
                                                  =
Ver Frequency
                     = 85.080;
                                                        11.8 msec
                                                                       frame
                                       // Hz
                                                        31.7 nsec
Pixel Clock
                     = 31.500;
                                       // MHz
                                                                       \pm 0.5\%
Character Width
                     = 8:
                                       // Pixels
                                                       254.0 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                           3.8 %
Hor Sync Polarity
                     = POSITIVE:
                                      // HBlank =
                                                      23.1% of HTotal
Ver Sync Polarity
                     = NEGATIVE; // VBlank
                                                      21.3% of VTotal
Hor Total Time
                     = 26.413:
                                       // (usec)
                                                         104 \text{ chars} =
                                                                          832 Pixels
Hor Addr Time
                     = 20.317;
                                       // (usec)
                                                          80 \text{ chars} =
                                                                          640 Pixels
Hor Blank Start
                     = 20.317;
                                       // (usec)
                                                          80 \text{ chars} =
                                                                          640 Pixels
                                                  =
Hor Blank Time
                     = 6.095;
                                                          24
                                                                          192 Pixels
                                       // (usec)
                                                              chars =
Hor Sync Start
                     = 21.333;
                                       // (usec)
                                                          84 \text{ chars} =
                                                                          672 Pixels
                                                  =
// H Right Border
                     = 0.000;
                                       // (usec)
                                                              chars =
                                                                            0 Pixels
                                                  =
                                                           0
// H Front Porch
                     = 1.016;
                                       // (usec)
                                                  =
                                                           4
                                                              chars =
                                                                           32 Pixels
Hor Sync Time
                     = 2.032;
                                                           8
                                                              chars =
                                                                           64 Pixels
                                       // (usec)
// H Back Porch
                                                              chars =
                     = 3.048;
                                                                           96 Pixels
                                       // (usec)
                                                  =
                                                          12
// H Left Border
                     = 0.000;
                                       // (usec)
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                                  =
                                       // (msec)
                                                                       HT - (1.06xHA)
Ver Total Time
                     = 11.754;
                                                         445 lines
Ver Addr Time
                     = 9.244;
                                       // (msec)
                                                         350 lines
                                                                            = 4.88
                                                  =
                     = 9.244:
Ver Blank Start
                                       // (msec)
                                                         350 lines
                                                  =
Ver Blank Time
                     = 2.509;
                                       // (msec)
                                                  =
                                                          95 lines
Ver Sync Start
                     = 10.090;
                                       // (msec)
                                                         382 lines
// V Bottom Border
                     = 0.000;
                                       // (msec)
                                                           0 lines
                                                  =
// V Front Porch
                     = 0.845:
                                       // (msec)
                                                  =
                                                          32 lines
Ver Sync Time
                     = 0.079;
                                                           3 lines
                                       // (msec)
                                                  =
// V Back Porch
                     = 1.585;
                                                          60 lines
                                       // (msec)
                                                  =
// V Top Border
                     = 0.000;
                                       // (msec)
                                                           0 lines
```



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Proposed: 5/7/95 Adopted: 3/1/96

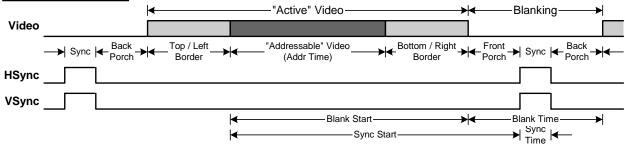
Resolution: 640 x 400 at 85 Hz (non-interlaced)

EDID ID: n/a BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 640 \times 400 @ 85Hz:
Hor Pixels
                    = 640:
                                      // Pixels
Ver Pixels
                     = 400;
                                      // Lines
Hor Frequency
                     = 37.861;
                                      // KHz
                                                       26.4 usec
                                                                    / line
Ver Frequency
                     = 85.080;
                                      // Hz
                                                       11.8 msec
                                                                      frame
Pixel Clock
                     = 31.500:
                                      // MHz
                                                       31.7 nsec
                                                                      \pm 0.5\%
                                                  =
Character Width
                                                      254.0 nsec
                     = 8;
                                      // Pixels
Scan Type
                                                        // H Phase =
                                                                          3.8 %
                     = NONINTERLACED;
Hor Sync Polarity
                     = NEGATIVE; // HBlank =
                                                     23.1% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                     10.1% of VTotal
Hor Total Time
                     = 26.413;
                                      // (usec)
                                                        104 \text{ chars} =
                                                                         832 Pixels
Hor Addr Time
                     = 20.317;
                                      // (usec)
                                                         80 \text{ chars} =
                                                                         640 Pixels
                                                  =
                     = 20.317;
Hor Blank Start
                                      // (usec)
                                                         80
                                                             chars =
                                                                         640 Pixels
Hor Blank Time
                                                             chars =
                     = 6.095;
                                      // (usec)
                                                         24
                                                                         192 Pixels
                                                  =
Hor Sync Start
                     = 21.333;
                                      // (usec)
                                                         84 chars =
                                                                         672 Pixels
// H Right Border
                     = 0.000:
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                                                             chars =
                     = 1.016:
                                      // (usec)
                                                                          32 Pixels
Hor Sync Time
                                                          8
                     = 2.032;
                                      // (usec)
                                                             chars =
                                                                          64 Pixels
// H Back Porch
                     = 3.048;
                                      // (usec)
                                                             chars =
                                                                          96 Pixels
                                                  =
                                                         12
// H Left Border
                     = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                                  =
Ver Total Time
                     = 11.754:
                                      // (msec)
                                                        445 lines
                                                                      HT - (1.06xHA)
Ver Addr Time
                     = 10.565:
                                      // (msec)
                                                        400 lines
                                                                           = 4.88
                                                  =
Ver Blank Start
                    = 10.565;
                                      // (msec)
                                                        400 lines
                                                  =
Ver Blank Time
                     = 1.189;
                                      // (msec)
                                                         45 lines
                                                  =
Ver Sync Start
                                                        401 lines
                     = 10.591;
                                      // (msec)
                                                  =
// V Bottom Border
                    = 0.000;
                                      // (msec)
                                                  =
                                                          0 lines
// V Front Porch
                     = 0.026;
                                      // (msec)
                                                          1 lines
                                                  =
Ver Sync Time
                     = 0.079;
                                      // (msec)
                                                  =
                                                          3 lines
// V Back Porch
                     = 1.083;
                                                         41 lines
                                      // (msec)
                                                  =
// V Top Border
                     = 0.000;
                                      // (msec)
                                                          0 lines
```



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Proposed: 5/7/95 Adopted: 3/1/96

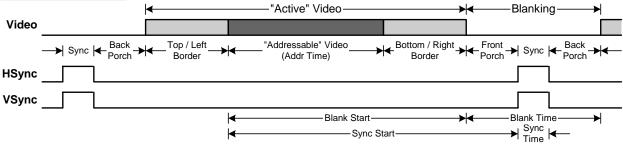
Resolution: 720 x 400 at 85 Hz (non-interlaced)

EDID ID: n/a BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 720 \times 400 @ 85Hz:
Hor Pixels
                    = 720:
                                      // Pixels
Ver Pixels
                    = 400;
                                      // Lines
Hor Frequency
                    = 37.927:
                                      // KHz
                                                       26.4 usec
                                                                    / line
Ver Frequency
                                                       11.8 msec
                    = 85.039;
                                      // Hz
                                                                      frame
Pixel Clock
                    = 35.500;
                                                       28.2 nsec
                                                                      \pm 0.5\%
                                      // MHz
                                                 =
Character Width
                    = 9;
                                      // Pixels
                                                      253.5 nsec
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                          3.8 %
                    = NEGATIVE; // HBlank =
Hor Sync Polarity
                                                     23.1% of HTotal
Ver Sync Polarity
                                      // VBlank
                    = POSITIVE;
                                                     10.3% of VTotal
Hor Total Time
                                      // (usec)
                    = 26.366;
                                                        104 chars =
                                                                         936 Pixels
Hor Addr Time
                    = 20.282:
                                      // (usec)
                                                         80
                                                            chars =
                                                                         720 Pixels
Hor Blank Start
                    = 20.282;
                                      // (usec)
                                                         80 \text{ chars} =
                                                                         720 Pixels
Hor Blank Time
                    = 6.085:
                                      // (usec)
                                                         24
                                                            chars =
                                                                         216 Pixels
Hor Sync Start
                    = 21.296;
                                      // (usec)
                                                         84 \text{ chars} =
                                                                         756 Pixels
// H Right Border
                    = 0.000;
                                      // (usec)
                                                          0
                                                            chars =
                                                                           0 Pixels
// H Front Porch
                    = 1.014;
                                      // (usec)
                                                             chars =
                                                                          36 Pixels
                                                 =
Hor Sync Time
                    = 2.028:
                                      // (usec)
                                                          8
                                                             chars =
                                                                          72 Pixels
                                                 =
// H Back Porch
                    = 3.042:
                                      // (usec)
                                                 =
                                                         12
                                                             chars =
                                                                         108 Pixels
// H Left Border
                    = 0.000;
                                      // (usec)
                                                          0 chars =
                                                                           0 Pixels
                                                 =
Ver Total Time
                    = 11.759;
                                      // (msec)
                                                        446 lines
                                                                      HT - (1.06xHA)
                                                 =
Ver Addr Time
                    = 10.546:
                                      // (msec)
                                                        400 lines
                                                                           = 4.87
                                                 =
Ver Blank Start
                    = 10.546;
                                      // (msec)
                                                 =
                                                        400 lines
Ver Blank Time
                    = 1.213;
                                      // (msec)
                                                         46 lines
Ver Sync Start
                                                        401 lines
                    = 10.573;
                                      // (msec)
                                                 =
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                 =
                                                          0 lines
// V Front Porch
                    = 0.026;
                                      // (msec)
                                                 =
                                                          1 lines
Ver Sync Time
                    = 0.079;
                                      // (msec)
                                                          3 lines
                                                 =
// V Back Porch
                    = 1.107;
                                      // (msec)
                                                         42 lines
                                                 =
// V Top Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
```



Adopted: n/a ** For Reference Only - Not VESA Standard **

Resolution: 640 x 480 at 60 Hz (non-interlaced)

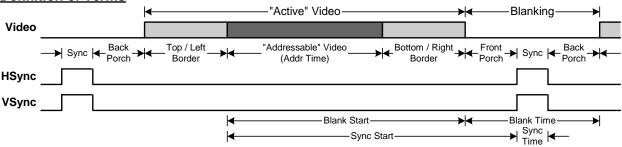
EDID ID: 031h, 040h

BIOS Modes: 11h, 12h, 101h, 110h, 111h, & 112h (1, 4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) Pre-Adjusted Timing Data

```
Timing Name
                    = 640 \times 480 @ 60Hz;
Hor Pixels
                    = 640;
                                      // Pixels
Ver Pixels
                    = 480;
                                      // Lines
Hor Frequency
                    = 31.469:
                                      // KHz
                                                       31.8 usec
                                                                    / line
                                                 =
Ver Frequency
                    = 59.940:
                                      // Hz
                                                       16.7 msec
                                                                      frame
Pixel Clock
                                      // MHz
                                                       39.7 nsec
                                                                      \pm 0.5\%
                    = 25.175:
Character Width
                    = 8;
                                      // Pixels
                                                      317.8 nsec
Scan Type
                                                        // H Phase =
                                                                         2.0 %
                    = NONINTERLACED;
                    = NEGATIVE; // HBlank =
Hor Sync Polarity
                                                     18.0% of HTotal
Ver Sync Polarity
                    = NEGATIVE; // VBlank
                                                      5.5% of VTotal
Hor Total Time
                    = 31.778:
                                      // (usec)
                                                 =
                                                        100 \text{ chars} =
                                                                         800 Pixels
Hor Addr Time
                    = 25.422:
                                      // (usec)
                                                         80
                                                             chars =
                                                                         640 Pixels
                                                 =
Hor Blank Start
                    = 25.740;
                                      // (usec)
                                                         81
                                                             chars =
                                                                         648 Pixels
                                                 =
Hor Blank Time
                    = 5.720:
                                      // (usec)
                                                             chars =
                                                                         144 Pixels
                                                         18
                                                 =
                                                         82 chars =
Hor Sync Start
                    = 26.058;
                                      // (usec)
                                                 =
                                                                         656 Pixels
// H Right Border
                    = 0.318:
                                      // (usec)
                                                 =
                                                          1 chars =
                                                                           8 Pixels
// H Front Porch
                                                          1
                    = 0.318:
                                      // (usec)
                                                             chars =
                                                                           8 Pixels
                                                 =
Hor Svnc Time
                    = 3.813:
                                      // (usec)
                                                         12 chars =
                                                                          96 Pixels
                                                 =
// H Back Porch
                    = 1.589;
                                      // (usec)
                                                 =
                                                          5
                                                             chars =
                                                                          40 Pixels
// H Left Border
                    = 0.318;
                                                                           8 Pixels
                                      // (usec)
                                                          1 chars =
                                                 =
Ver Total Time
                    = 16.683;
                                      // (msec)
                                                        525 lines
                                                                      HT - (1.06xHA)
                                                 =
Ver Addr Time
                    = 15.253;
                                                        480 lines
                                                                           = 4.83
                                      // (msec)
                                                 =
Ver Blank Start
                    = 15.507;
                                                        488 lines
                                      // (msec)
                                                 =
Ver Blank Time
                    = 0.922;
                                      // (msec)
                                                 =
                                                         29 lines
Ver Sync Start
                    = 15.571;
                                      // (msec)
                                                        490 lines
// V Bottom Border
                    = 0.254:
                                                          8 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.064:
                                      // (msec)
                                                          2 lines
                                                 =
Ver Sync Time
                    = 0.064:
                                      // (msec)
                                                          2 lines
// V Back Porch
                    = 0.794;
                                                         25 lines
                                      // (msec)
// V Top Border
                    = 0.254:
                                      // (msec)
                                                          8 lines
```



Adopted: 11/11/90 (VESA #901101)

Resolution: 640 x 480 at 72 Hz (non-interlaced)

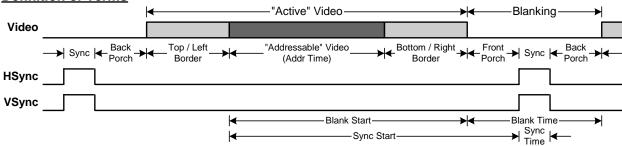
EDID ID: 031h, 04Ch

BIOS Modes: 11h, 12h, 101h, 110h, 111h, & 112h (1, 4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> Pre-Adjusted Timing Data

```
Timing Name
                    = 640 \times 480 @ 72Hz;
Hor Pixels
                    = 640;
                                      // Pixels
Ver Pixels
                    = 480;
                                      // Lines
Hor Frequency
                    = 37.861:
                                      // KHz
                                                       26.4 usec
                                                                    / line
                                                 =
Ver Frequency
                    = 72.809:
                                      // Hz
                                                       13.7 msec
                                                                      frame
Pixel Clock
                    = 31.500:
                                      // MHz
                                                       31.7 nsec
                                                                      \pm 0.5\%
Character Width
                    = 8;
                                      // Pixels
                                                      254.0 nsec
Scan Type
                                                        // H Phase =
                                                                         6.3 %
                    = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE; // HBlank =
                                                     21.2% of HTotal
Ver Sync Polarity
                    = NEGATIVE; // VBlank
                                                      4.6% of VTotal
Hor Total Time
                    = 26.413:
                                      // (usec)
                                                 =
                                                        104 \text{ chars} =
                                                                         832 Pixels
Hor Addr Time
                    = 20.317;
                                      // (usec)
                                                         80
                                                             chars =
                                                                         640 Pixels
                                                 =
Hor Blank Start
                    = 20.571;
                                      // (usec)
                                                         81
                                                             chars =
                                                                         648 Pixels
                                                 =
Hor Blank Time
                    = 5.587:
                                      // (usec)
                                                         22
                                                             chars =
                                                                         176 Pixels
                                                 =
Hor Sync Start
                    = 21.079;
                                      // (usec)
                                                 =
                                                         83
                                                            chars =
                                                                         664 Pixels
// H Right Border
                    = 0.254:
                                      // (usec)
                                                 =
                                                          1
                                                             chars =
                                                                           8 Pixels
// H Front Porch
                    = 0.508;
                                      // (usec)
                                                             chars =
                                                                          16 Pixels
                                                 =
                                                          5
Hor Svnc Time
                    = 1.270:
                                      // (usec)
                                                             chars =
                                                                          40 Pixels
                                                 =
// H Back Porch
                    = 3.810;
                                      // (usec)
                                                 =
                                                         15
                                                            chars =
                                                                         120 Pixels
// H Left Border
                    = 0.254;
                                      // (usec)
                                                                           8 Pixels
                                                          1
                                                            chars =
                                                 =
Ver Total Time
                    = 13.735;
                                      // (msec)
                                                        520 lines
                                                                      HT - (1.06xHA)
                                                 =
Ver Addr Time
                    = 12.678:
                                                        480 lines
                                                                           = 4.88
                                      // (msec)
                                                 =
Ver Blank Start
                    = 12.889;
                                      // (msec)
                                                        488 lines
                                                 =
Ver Blank Time
                    = 0.634;
                                      // (msec)
                                                 =
                                                         24 lines
Ver Sync Start
                    = 12.916;
                                      // (msec)
                                                        489 lines
// V Bottom Border
                    = 0.211:
                                                          8 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.026;
                                      // (msec)
                                                          1 lines
                                                 =
Ver Sync Time
                    = 0.079:
                                      // (msec)
                                                 =
                                                          3 lines
// V Back Porch
                                                         20 lines
                    = 0.528;
                                      // (msec)
// V Top Border
                    = 0.211:
                                                          8 lines
                                      // (msec)
```



Adopted: 10/4/93

Resolution: 640 x 480 at 75 Hz (non-interlaced)

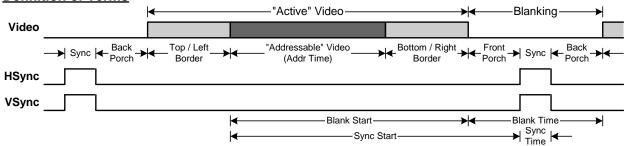
EDID ID: 031h, 04Fh

BIOS Modes: 11h, 12h, 101h, 110h, 111h, & 112h (1, 4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 640 \times 480 @ 75Hz;
Hor Pixels
                    = 640;
                                      // Pixels
Ver Pixels
                    = 480;
                                      // Lines
Hor Frequency
                     = 37.500:
                                      // KHz
                                                        26.7 usec
                                                                    / line
                                                  =
Ver Frequency
                     = 75.000:
                                      // Hz
                                                        13.3 msec
                                                                       frame
Pixel Clock
                    = 31.500:
                                      // MHz
                                                        31.7 nsec
                                                                       \pm 0.5\%
                                                  =
Character Width
                    = 8;
                                      // Pixels
                                                       254.0 nsec
Scan Type
                                                         // H Phase =
                                                                          6.2 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE; // HBlank =
                                                      23.8% of HTotal
Ver Sync Polarity
                     = NEGATIVE; // VBlank
                                                       4.0% of VTotal
Hor Total Time
                     = 26.667:
                                      // (usec)
                                                  =
                                                         105 \text{ chars} =
                                                                         840 Pixels
Hor Addr Time
                     = 20.317;
                                      // (usec)
                                                         80
                                                             chars =
                                                                         640 Pixels
                                                  =
Hor Blank Start
                    = 20.317;
                                      // (usec)
                                                         80 \text{ chars} =
                                                                         640 Pixels
                                                  =
Hor Blank Time
                    = 6.349;
                                      // (usec)
                                                          25
                                                             chars =
                                                                         200 Pixels
Hor Sync Start
                    = 20.825;
                                      // (usec)
                                                  =
                                                         82 \text{ chars} =
                                                                         656 Pixels
// H Right Border
                     = 0.000:
                                      // (usec)
                                                  =
                                                           0
                                                             chars =
                                                                            0 Pixels
// H Front Porch
                    = 0.508;
                                      // (usec)
                                                           2
                                                             chars =
                                                                           16 Pixels
                                                  =
Hor Svnc Time
                    = 2.032:
                                      // (usec)
                                                           8
                                                             chars =
                                                                           64 Pixels
                                                  =
// H Back Porch
                     = 3.810;
                                      // (usec)
                                                  =
                                                          15
                                                             chars =
                                                                          120 Pixels
// H Left Border
                     = 0.000;
                                                             chars =
                                                                            0 Pixels
                                      // (usec)
                                                  =
                                                           0
Ver Total Time
                     = 13.333;
                                      // (msec)
                                                        500 lines
                                                                       HT - (1.06xHA)
                                                  =
Ver Addr Time
                    = 12.800;
                                                        480 lines
                                                                            = 5.13
                                      // (msec)
                                                  =
Ver Blank Start
                    = 12.800;
                                      // (msec)
                                                        480 lines
                                                  =
Ver Blank Time
                    = 0.533;
                                      // (msec)
                                                  =
                                                         20 lines
Ver Sync Start
                     = 12.827;
                                      // (msec)
                                                        481 lines
// V Bottom Border
                    = 0.000;
                                                           0 lines
                                      // (msec)
                                                  =
// V Front Porch
                    = 0.027:
                                      // (msec)
                                                           1 lines
                                                  =
Ver Sync Time
                     = 0.080:
                                      // (msec)
                                                  =
                                                           3 lines
// V Back Porch
                                                          16 lines
                     = 0.427;
                                      // (msec)
// V Top Border
                     = 0.000:
                                                           0 lines
                                      // (msec)
```



Proposed: 5/7/95 Adopted: 3/1/96

Resolution: 640 x 480 at 85 Hz (non-interlaced)

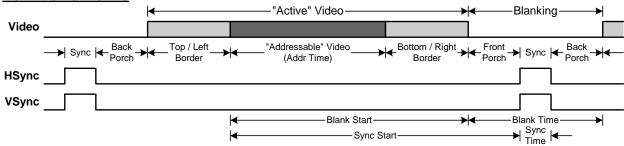
EDID ID: 031h, 059h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 640 \times 480 @ 85Hz;
Hor Pixels
                    = 640:
                                      // Pixels
Ver Pixels
                    = 480;
                                      // Lines
                                                       23.1 usec
Hor Frequency
                    = 43.269;
                                      // KHz
                                                                   / line
Ver Frequency
                    = 85.008;
                                      // Hz
                                                 =
                                                       11.8 msec
                                                                   / frame
Pixel Clock
                    = 36.000;
                                      // MHz
                                                       27.8 nsec
                                                                      \pm 0.5\%
Character Width
                                      // Pixels
                                                      222.2 nsec
                    = 8;
                                                 =
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         1.4 %
Hor Sync Polarity
                    = NEGATIVE; // HBlank =
                                                    23.1% of HTotal
Ver Sync Polarity
                    = NEGATIVE; // VBlank =
                                                      5.7% of VTotal
Hor Total Time
                    = 23.111;
                                      // (usec)
                                                        104 \text{ chars} =
                                                                        832 Pixels
                                                 =
Hor Addr Time
                    = 17.778;
                                      // (usec)
                                                         80
                                                            chars =
                                                                        640 Pixels
Hor Blank Start
                    = 17.778;
                                      // (usec)
                                                 =
                                                         80
                                                             chars =
                                                                        640 Pixels
Hor Blank Time
                                                                        192 Pixels
                    = 5.333;
                                      // (usec)
                                                         24 \text{ chars} =
                                                 =
Hor Sync Start
                    = 19.333;
                                      // (usec)
                                                         87
                                                             chars =
                                                                        696 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                    = 1.556;
                                      // (usec)
                                                          7
                                                             chars =
                                                                          56 Pixels
Hor Sync Time
                    = 1.556;
                                      // (usec)
                                                                          56 Pixels
                                                          7
                                                             chars =
// H Back Porch
                    = 2.222;
                                      // (usec)
                                                         10
                                                            chars =
                                                                          80 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                                           0 Pixels
                                      // (usec)
                                                          0
                                                            chars =
Ver Total Time
                    = 11.764;
                                      // (msec)
                                                        509 lines
                                                                      HT - (1.06xHA)
Ver Addr Time
                    = 11.093:
                                      // (msec)
                                                        480 lines
                                                                           = 4.27
Ver Blank Start
                    = 11.093;
                                      // (msec)
                                                       480 lines
Ver Blank Time
                    = 0.670;
                                                         29 lines
                                      // (msec)
                                                 =
Ver Sync Start
                    = 11.116;
                                      // (msec)
                                                 =
                                                       481 lines
// V Bottom Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.023;
                                      // (msec)
                                                          1 lines
                                                 =
Ver Sync Time
                    = 0.069;
                                                          3 lines
                                      // (msec)
                                                 =
                                                         25 lines
// V Back Porch
                    = 0.578;
                                      // (msec)
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Adopted: 8/7/90 (VESA #900601)

Resolution: 800 x 600 at 56 Hz (non-interlaced)

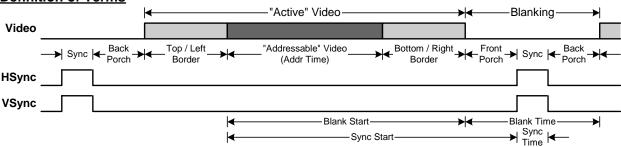
EDID ID: n/a

BIOS Modes: 102h, 103h, 113h, 114h, & 115h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 800 \times 600 \otimes 56Hz;
Hor Pixels
                       800;
                                       // Pixels
Ver Pixels
                                       // Lines
                     = 600;
Hor Frequency
                     = 35.156:
                                       // KHz
                                                        28.4 usec
                                                                     / line
                                                   =
Ver Frequency
                     = 56.250:
                                       // Hz
                                                         17.8 msec
                                                                       frame
Pixel Clock
                     = 36.000:
                                       // MHz
                                                        27.8 nsec
                                                                        \pm 0.5\%
                                                   =
Character Width
                     = 8;
                                       // Pixels
                                                       222.2 nsec
Scan Type
                                                          // H Phase =
                                                                           5.1 %
                     = NONINTERLACED;
Hor Sync Polarity
                                       // HBlank =
                                                      21.9% of HTotal
                     = POSITIVE;
Ver Sync Polarity
                                       // VBlank
                                                        4.0% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 28.444:
                                       // (usec)
                                                   =
                                                         128 \text{ chars} =
                                                                          1024 Pixels
Hor Addr Time
                     = 22.222;
                                       // (usec)
                                                         100 \text{ chars} =
                                                                          800 Pixels
Hor Blank Start
                     = 22.222;
                                       // (usec)
                                                                          800 Pixels
                                                         100 \text{ chars} =
                                                   =
Hor Blank Time
                     = 6.222:
                                       // (usec)
                                                          28
                                                              chars =
                                                                          224 Pixels
                                                   =
                                                         103 \text{ chars} =
Hor Sync Start
                     = 22.889:
                                       // (usec)
                                                   =
                                                                          824 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                   =
                                                           0
                                                              chars =
                                                                             0 Pixels
// H Front Porch
                     = 0.667;
                                       // (usec)
                                                           3
                                                              chars =
                                                                            24 Pixels
                                                   =
Hor Svnc Time
                     = 2.000:
                                       // (usec)
                                                              chars =
                                                                            72 Pixels
                                                   =
// H Back Porch
                     = 3.556;
                                       // (usec)
                                                   =
                                                          16
                                                              chars =
                                                                           128 Pixels
// H Left Border
                     = 0.000;
                                       // (usec)
                                                              chars =
                                                                             0 Pixels
                                                   =
                                                           0
                                                                        HT - (1.06xHA)
Ver Total Time
                     = 17.778;
                                       // (msec)
                                                         625 lines
                                                   =
Ver Addr Time
                     = 17.067;
                                                         600 lines
                                                                             = 4.89
                                       // (msec)
                                                   =
Ver Blank Start
                     = 17.067;
                                       // (msec)
                                                         600 lines
                                                   =
Ver Blank Time
                     = 0.711;
                                       // (msec)
                                                   =
                                                          25 lines
Ver Sync Start
                     = 17.095;
                                       // (msec)
                                                         601 lines
// V Bottom Border
                     = 0.000;
                                                           0 lines
                                       // (msec)
                                                   =
// V Front Porch
                     = 0.028:
                                       // (msec)
                                                           1 lines
                                                   =
Ver Sync Time
                     = 0.057:
                                       // (msec)
                                                   =
                                                           2 lines
// V Back Porch
                                                          22 lines
                     = 0.626;
                                       // (msec)
// V Top Border
                     = 0.000:
                                                           0 lines
                                       // (msec)
```



Adopted: 8/7/90 (VESA #900602)

Resolution: 800 x 600 at 60 Hz (non-interlaced)

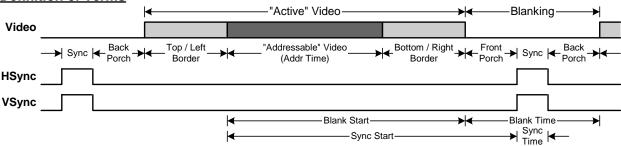
EDID ID: 045h, 040h

BIOS Modes: 102h, 103h, 113h, 114h, & 115h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 800 x 600 @ 60Hz;
Hor Pixels
                       800;
                                       // Pixels
Ver Pixels
                                       // Lines
                     = 600;
Hor Frequency
                     = 37.879:
                                       // KHz
                                                        26.4 usec
                                                                     / line
                                                  =
Ver Frequency
                     = 60.317:
                                       // Hz
                                                        16.6 msec
                                                                       frame
Pixel Clock
                                       // MHz
                                                        25.0 nsec
                                                                        \pm 0.5\%
                     = 40.000:
Character Width
                     = 8;
                                       // Pixels
                                                       200.0 nsec
Scan Type
                                                          // H Phase =
                                                                           2.3 %
                     = NONINTERLACED;
Hor Sync Polarity
                                       // HBlank =
                                                      24.2% of HTotal
                     = POSITIVE;
Ver Sync Polarity
                                       // VBlank
                                                       4.5% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 26.400:
                                       // (usec)
                                                  =
                                                         132 \text{ chars} =
                                                                         1056 Pixels
Hor Addr Time
                     = 20.000;
                                       // (usec)
                                                         100 \text{ chars} =
                                                                          800 Pixels
Hor Blank Start
                     = 20.000;
                                       // (usec)
                                                         100 \text{ chars} =
                                                                          800 Pixels
                                                  =
Hor Blank Time
                     = 6.400:
                                       // (usec)
                                                          32 \text{ chars} =
                                                                          256 Pixels
                                                  =
Hor Sync Start
                     = 21.000;
                                       // (usec)
                                                  =
                                                         105 \text{ chars} =
                                                                          840 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                  =
                                                           0
                                                              chars =
                                                                             0 Pixels
// H Front Porch
                                                           5
                     = 1.000:
                                       // (usec)
                                                              chars =
                                                                            40 Pixels
                                                  =
Hor Svnc Time
                     = 3.200:
                                       // (usec)
                                                              chars =
                                                                           128 Pixels
                                                  =
                                                          16
// H Back Porch
                     = 2.200;
                                       // (usec)
                                                  =
                                                              chars =
                                                                            88 Pixels
// H Left Border
                     = 0.000;
                                       // (usec)
                                                              chars =
                                                                             0 Pixels
                                                  =
Ver Total Time
                     = 16.579;
                                       // (msec)
                                                         628 lines
                                                                        HT - (1.06xHA)
                                                  =
Ver Addr Time
                     = 15.840;
                                       // (msec)
                                                         600 lines
                                                                             = 5.2
                                                  =
Ver Blank Start
                     = 15.840;
                                       // (msec)
                                                         600 lines
                                                  =
Ver Blank Time
                     = 0.739;
                                       // (msec)
                                                  =
                                                          28 lines
Ver Sync Start
                     = 15.866;
                                       // (msec)
                                                         601 lines
// V Bottom Border
                     = 0.000:
                                                           0 lines
                                       // (msec)
                                                  =
// V Front Porch
                     = 0.026;
                                       // (msec)
                                                           1 lines
                                                  =
Ver Sync Time
                     = 0.106:
                                       // (msec)
                                                           4 lines
// V Back Porch
                                                          23 lines
                     = 0.607;
                                       // (msec)
// V Top Border
                     = 0.000:
                                                           0 lines
                                       // (msec)
```



Adopted: 9/10/91 (VESA #900603A)

Resolution: 800 x 600 at 72 Hz (non-interlaced)

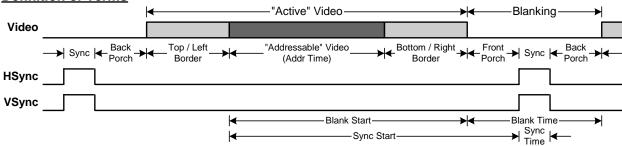
EDID ID: 045h, 04Ch

BIOS Modes: 102h, 103h, 113h, 114h, & 115h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> Pre-Adjusted Timing Data

```
Timing Name
                    = 800 \times 600 @ 72Hz;
Hor Pixels
                       800;
                                       // Pixels
Ver Pixels
                                       // Lines
                     = 600;
Hor Frequency
                     = 48.077:
                                       // KHz
                                                        20.8 usec
                                                                     / line
                                                  =
Ver Frequency
                     = 72.188:
                                       // Hz
                                                        13.9 msec
                                                                       frame
Pixel Clock
                                       // MHz
                                                        20.0 nsec
                                                                       \pm 0.5\%
                     = 50.000:
Character Width
                     = 8;
                                       // Pixels
                                                       160.0 nsec
Scan Type
                                                         // H Phase =
                                                                           0.4 %
                     = NONINTERLACED;
Hor Sync Polarity
                                       // HBlank =
                                                      23.1% of HTotal
                     = POSITIVE;
Ver Sync Polarity
                                       // VBlank
                                                       9.9% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 20.800:
                                       // (usec)
                                                  =
                                                         130 \text{ chars} =
                                                                         1040 Pixels
Hor Addr Time
                     = 16.000;
                                       // (usec)
                                                         100 \text{ chars} =
                                                                          800 Pixels
Hor Blank Start
                                       // (usec)
                     = 16.000;
                                                         100 \text{ chars} =
                                                                          800 Pixels
                                                  =
Hor Blank Time
                     = 4.800:
                                       // (usec)
                                                          30 \text{ chars} =
                                                                          240 Pixels
                                                  =
                                                         107 chars =
Hor Sync Start
                     = 17.120;
                                       // (usec)
                                                  =
                                                                          856 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                  =
                                                           0
                                                              chars =
                                                                            0 Pixels
// H Front Porch
                     = 1.120:
                                       // (usec)
                                                           7
                                                              chars =
                                                                            56 Pixels
                                                  =
Hor Svnc Time
                     = 2.400:
                                       // (usec)
                                                          15
                                                              chars =
                                                                           120 Pixels
                                                  =
// H Back Porch
                     = 1.280;
                                       // (usec)
                                                  =
                                                           8
                                                              chars =
                                                                            64 Pixels
// H Left Border
                     = 0.000;
                                       // (usec)
                                                              chars =
                                                                             0 Pixels
                                                           0
                                                  =
Ver Total Time
                     = 13.853;
                                       // (msec)
                                                         666 lines
                                                                       HT - (1.06xHA)
                                                  =
Ver Addr Time
                     = 12.480:
                                                         600 lines
                                                                             = 3.84
                                       // (msec)
                                                  =
Ver Blank Start
                     = 12.480;
                                       // (msec)
                                                         600 lines
                                                  =
Ver Blank Time
                     = 1.373;
                                       // (msec)
                                                  =
                                                          66 lines
Ver Sync Start
                     = 13.250;
                                       // (msec)
                                                         637 lines
// V Bottom Border
                     = 0.000:
                                                           0 lines
                                       // (msec)
                                                  =
// V Front Porch
                     = 0.770;
                                       // (msec)
                                                          37 lines
                                                  =
Ver Sync Time
                     = 0.125:
                                       // (msec)
                                                           6 lines
// V Back Porch
                                                          23 lines
                     = 0.478;
                                       // (msec)
// V Top Border
                     = 0.000:
                                       // (msec)
                                                           0 lines
```



Adopted: 10/4/93

Resolution: 800 x 600 at 75 Hz (non-interlaced)

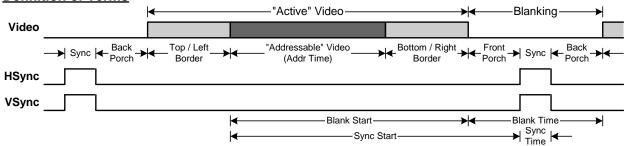
EDID ID: 045h, 04Fh

BIOS Modes: 102h, 103h, 113h, 114h, & 115h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                     = 800 x 600 @ 75Hz;
Hor Pixels
                       800;
                                       // Pixels
Ver Pixels
                                       // Lines
                     = 600;
Hor Frequency
                     = 46.875:
                                       // KHz
                                                         21.3 usec
                                                                      / line
                                                   =
Ver Frequency
                     = 75.000:
                                       // Hz
                                                         13.3 msec
                                                                        frame
Pixel Clock
                                       // MHz
                                                         20.2 nsec
                                                                        \pm 0.5\%
                     = 49.500:
Character Width
                     = 8;
                                       // Pixels
                                                   =
                                                        161.6 nsec
Scan Type
                                                          // H Phase =
                                                                            6.8 %
                     = NONINTERLACED;
Hor Sync Polarity
                                       // HBlank =
                                                       24.2% of HTotal
                     = POSITIVE;
Ver Sync Polarity
                                       // VBlank
                                                        4.0% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 21.333:
                                       // (usec)
                                                   =
                                                          132 \text{ chars} =
                                                                          1056 Pixels
Hor Addr Time
                     = 16.162;
                                       // (usec)
                                                          100 \text{ chars} =
                                                                           800 Pixels
Hor Blank Start
                                       // (usec)
                                                          100 \text{ chars} =
                     = 16.162;
                                                                           800 Pixels
                                                   =
Hor Blank Time
                     = 5.172:
                                       // (usec)
                                                           32 \text{ chars} =
                                                                           256 Pixels
                                                   =
                                                          102 \text{ chars} =
Hor Sync Start
                     = 16.485;
                                       // (usec)
                                                   =
                                                                           816 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                   =
                                                            \mathbf{0} chars =
                                                                             0 Pixels
// H Front Porch
                                                            2
                     = 0.323;
                                       // (usec)
                                                               chars =
                                                                            16 Pixels
                                                   =
Hor Svnc Time
                     = 1.616:
                                       // (usec)
                                                           10
                                                               chars =
                                                                            80 Pixels
                                                   =
// H Back Porch
                     = 3.232;
                                       // (usec)
                                                   =
                                                           20
                                                              chars =
                                                                           160 Pixels
// H Left Border
                     = 0.000;
                                                            \mathbf{0} chars =
                                                                             0 Pixels
                                       // (usec)
                                                   =
                                                                        HT - (1.06xHA)
Ver Total Time
                     = 13.333;
                                       // (msec)
                                                          625 lines
                                                   =
Ver Addr Time
                     = 12.800;
                                                          600 lines
                                                                             = 4.2
                                       // (msec)
                                                   =
Ver Blank Start
                     = 12.800;
                                       // (msec)
                                                          600 lines
                                                   =
Ver Blank Time
                     = 0.533;
                                       // (msec)
                                                   =
                                                           25 lines
Ver Sync Start
                     = 12.821;
                                       // (msec)
                                                          601 lines
// V Bottom Border
                     = 0.000;
                                                            0 lines
                                       // (msec)
                                                   =
// V Front Porch
                     = 0.021:
                                       // (msec)
                                                            1 lines
                                                   =
Ver Sync Time
                     = 0.064:
                                       // (msec)
                                                   =
                                                            3 lines
// V Back Porch
                                                           21 lines
                     = 0.448;
                                       // (msec)
// V Top Border
                     = 0.000:
                                                            0 lines
                                       // (msec)
```



Proposed: 10/31/94 Adopted: 3/1/96

Resolution: 800 x 600 at 85 Hz (non-interlaced)

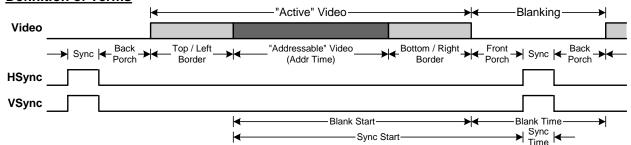
EDID ID: 045h, 059h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) Pre-Adjusted Timing Data

```
Timing Name
                    = 800 \times 600 \otimes 85Hz:
Hor Pixels
                                       // Pixels
                    = 800:
Ver Pixels
                     = 600;
                                       // Lines
Hor Frequency
                     = 53.674;
                                       // KHz
                                                         18.6 usec
                                                                     / line
                                                                     / frame
Ver Frequency
                     = 85.061:
                                       // Hz
                                                         11.8 msec
                                                   =
Pixel Clock
                     = 56.250;
                                                                        \pm 0.5\%
                                       // MHz
                                                         17.8 nsec
Character Width
                                       // Pixels
                                                       142.2 nsec
                     = 8;
                                                                           5.7 %
Scan Type
                                                          // H Phase =
                     = NONINTERLACED;
Hor Svnc Polarity
                                       // HBlank
                                                      23.7% of HTotal
                     = POSITIVE:
Ver Sync Polarity
                     = POSITIVE;
                                       // VBlank =
                                                        4.9% of VTotal
Hor Total Time
                     = 18.631:
                                       // (usec)
                                                         131 \text{ chars} =
                                                                          1048 Pixels
Hor Addr Time
                     = 14.222;
                                       // (usec)
                                                                           800 Pixels
                                                   =
                                                         100 \text{ chars} =
Hor Blank Start
                     = 14.222;
                                       // (usec)
                                                         100 \text{ chars} =
                                                                           800 Pixels
                                                   =
Hor Blank Time
                     = 4.409:
                                       // (usec)
                                                          31 \text{ chars} =
                                                                           248 Pixels
Hor Sync Start
                     = 14.791;
                                       // (usec)
                                                         104 chars =
                                                                           832 Pixels
// H Right Border
                     = 0.000;
                                                                             0 Pixels
                                       // (usec)
                                                   =
                                                           \mathbf{0} chars =
// H Front Porch
                     = 0.569;
                                       // (usec)
                                                              chars =
                                                                            32 Pixels
                                                            4
                                                   =
Hor Sync Time
                     = 1.138;
                                       // (usec)
                                                   =
                                                           8
                                                              chars =
                                                                            64 Pixels
// H Back Porch
                     = 2.702;
                                       // (usec)
                                                   =
                                                          19
                                                              chars =
                                                                           152 Pixels
// H Left Border
                     = 0.000;
                                       // (usec)
                                                            \mathbf{0} chars =
                                                                             0 Pixels
                                                   =
Ver Total Time
                     = 11.756;
                                       // (msec)
                                                         631 lines
                                                                        HT - (1.06xHA)
                                                   =
Ver Addr Time
                     = 11.179:
                                       // (msec)
                                                         600 lines
                                                                             = 3.56
                                                   =
Ver Blank Start
                     = 11.179:
                                       // (msec)
                                                   =
                                                         600 lines
Ver Blank Time
                                                          31 lines
                     = 0.578;
                                       // (msec)
Ver Sync Start
                     = 11.197:
                                       // (msec)
                                                         601 lines
                                                   =
// V Bottom Border
                     = 0.000:
                                       // (msec)
                                                            0 lines
// V Front Porch
                     = 0.019:
                                       // (msec)
                                                            1 lines
                                                   =
Ver Sync Time
                     = 0.056;
                                       // (msec)
                                                           3 lines
                                                   =
// V Back Porch
                     = 0.503;
                                       // (msec)
                                                          27 lines
                                                   =
// V Top Border
                                                           0 lines
                     = 0.000;
                                       // (msec)
```



Proposed: 3/4/03 Adopted: 8/21/03

Resolution: 848 x 480 at 60 Hz (non-interlaced)

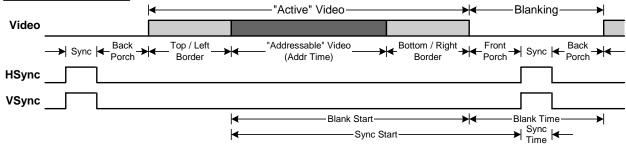
EDID ID: 4Bh, C0h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 848 \times 480 @ 60Hz;
Hor Pixels
                    = 848:
                                      // Pixels
Ver Pixels
                    = 480:
                                      // Lines
Hor Frequency
                    = 31.020:
                                      // KHz
                                                       32.2 usec
                                                                    / line
Ver Frequency
                    = 60.000;
                                      // Hz
                                                       16.7 msec
                                                                    / frame
                    = 33.750:
Pixel Clock
                                      // MHz
                                                       29.6 nsec
                                                                      +0.5\%
Character Width
                    = 8;
                                      // Pixels
                                                      237.0 nsec
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         4.4 %
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                     22.1% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                      7.2% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 32.237:
                                      // (usec)
                                                        136 chars =
                                                                        1088 Pixels
Hor Addr Time
                    = 25.126;
                                                                         848 Pixels
                                      // (usec)
                                                        106 \text{ chars} =
Hor Blank Start
                    = 25.126;
                                      // (usec)
                                                        106 \text{ chars} =
                                                                         848 Pixels
                                                  =
Hor Blank Time
                                      // (usec)
                                                         30 \text{ chars} =
                                                                         240 Pixels
                    = 7.111;
                                                  =
Hor Sync Start
                     = 25.600:
                                      // (usec)
                                                        108 \text{ chars} =
                                                                         864 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                                  =
// H Front Porch
                    = 0.474:
                                      // (usec)
                                                  =
                                                          2 \text{ chars} =
                                                                          16 Pixels
Hor Sync Time
                    = 3.319;
                                      // (usec)
                                                         14 chars =
                                                                         112 Pixels
// H Back Porch
                    = 3.319;
                                      // (usec)
                                                         14 chars =
                                                                         112 Pixels
                                                  =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
Ver Total Time
                    = 16.667:
                                                        517 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                                                        480 lines
Ver Addr Time
                    = 15.474:
                                      // (msec)
                                                                           = 5.6
Ver Blank Start
                    = 15.474;
                                                        480 lines
                                      // (msec)
Ver Blank Time
                    = 1.193:
                                      // (msec)
                                                         37 lines
                                                  =
Ver Sync Start
                    = 15.667;
                                      // (msec)
                                                  =
                                                        486 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                          0 lines
// V Front Porch
                    = 0.193;
                                                          6 lines
                                      // (msec)
                                                  =
Ver Sync Time
                    = 0.258;
                                      // (msec)
                                                          8 lines
                                                  =
// V Back Porch
                    = 0.741;
                                      // (msec)
                                                         23 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Adopted: n/a ** For Reference Only - Not VESA Standard **

Resolution: 1024 x 768 at 43 Hz (interlaced)

EDID ID: n/a

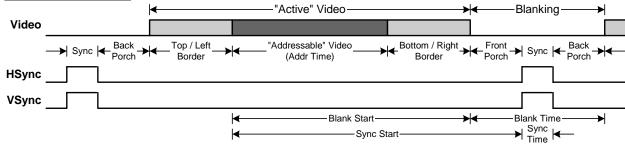
BIOS Modes: 104h, 105h, 116h, 117h, & 118h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1024 x 768 @ 43Hz:
Hor Pixels
                                      // Pixels
                    = 1024:
Ver Pixels
                    = 768:
                                      // Lines
Hor Frequency
                    = 35.522:
                                      // KHz
                                                        28.2 usec
                                                                     / line
                                                  =
Ver Frequency
                                                                    / field
                    = 86.957;
                                      // Hz
                                                  =
                                                        11.5 msec
Pixel Clock
                                                                       \pm 0.5\%
                    = 44.900:
                                      // MHz
                                                        22.3 nsec
Character Width
                                      // Pixels
                                                  =
                                                       178.2 nsec
                    = 8;
Scan Type
                    = INTERLACED;
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                      19.0% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                       5.9% of VTotal
                    = POSITIVE:
Hor Total Time
                    = 28.151;
                                                                        1264 Pixels
                                      // (usec)
                                                         158 chars =
Hor Addr Time
                    = 22.806;
                                      // (usec)
                                                         128
                                                              chars =
                                                                         1024 Pixels
Hor Blank Start
                    = 22.806;
                                      // (usec)
                                                  =
                                                         128
                                                              chars =
                                                                         1024 Pixels
Hor Blank Time
                    = 5.345:
                                      // (usec)
                                                          30 \text{ chars} =
                                                                          240 Pixels
                                                  =
Hor Sync Start
                    = 22.984;
                                                         129 chars =
                                                                         1032 Pixels
                                      // (usec)
                                                  =
// H Right Border
                    = 0.000:
                                      // (usec)
                                                           0
                                                              chars =
                                                                            0 Pixels
                                                  =
// H Front Porch
                    = 0.178;
                                      // (usec)
                                                  =
                                                           1
                                                              chars =
                                                                            8 Pixels
Hor Sync Time
                    = 3.920:
                                                              chars =
                                      // (usec)
                                                                          176 Pixels
// H Back Porch
                    = 1.247;
                                      // (usec)
                                                              chars =
                                                                           56 Pixels
                                                  =
// H Left Border
                    = 0.000:
                                      // (usec)
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                                 =
Ver Total Time
                    = 23.000;
                                      // (msec)
                                                 =
                                                         817 lines
                                                                    (Per Frame)
Ver Addr Time
                    = 21.620;
                                                                    (Per Frame)
                                      // (msec)
                                                         768 lines
Ver Blank Start
                    = 21.620;
                                      // (msec)
                                                 =
                                                         768 lines
                                                                    (Per Frame)
Ver Blank Time
                    = 0.676;
                                      // (msec)
                                                          24 lines
                                                                    (Per Field)
                                                 =
Ver Sync Start
                    = 21.620;
                                      // (msec)
                                                 =
                                                         768 lines
                                                                   (Per Frame)
// V Bottom Border = 0.000;
                                                           0 lines
                                                                    (Odd Field)
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.000;
                                                           0 lines
                                                                    (Odd Field)
                                      // (msec)
                                                 =
Ver Svnc Time
                    = 0.113:
                                                           4 lines
                                                                    (Both Fields)
                                      // (msec)
// V Back Porch
                                                                    (Odd Field)
                    = 0.563;
                                      // (msec)
                                                  =
                                                          20 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                           0 lines
                                                                    (Odd Field)
```

The vertical refresh rate is defined as the 'Frame' rate where a frame is made up of two fields (odd and even). The blank timing above is defined for the 'odd' field (even field blanking has one additional line). Therefore: Vertical Total = Ver Addr Time + (2 * Ver Blank Time) + 1



Adopted: 9/10/91 (VESA #901101A)

Resolution: 1024 x 768 at 60 Hz (non-interlaced)

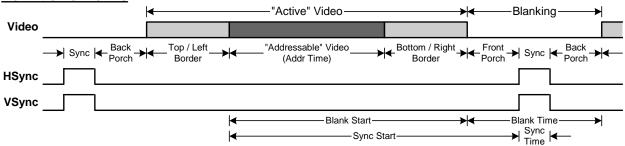
EDID ID: 061h, 040h

BIOS Modes: 104h, 105h, 116h, 117h, & 118h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) Pre-Adjusted Timing Data

```
Timing Name
                    = 1024 \times 768 @ 60Hz;
Hor Pixels
                    = 1024:
                                      // Pixels
Ver Pixels
                    = 768;
                                      // Lines
Hor Frequency
                     = 48.363;
                                      // KHz
                                                                    / line
                                                       20.7 usec
                                                  =
Ver Frequency
                     = 60.004;
                                                       16.7 msec
                                      // Hz
                                                                      frame
                                                  =
Pixel Clock
                    = 65.000;
                                      // MHz
                                                       15.4 nsec
                                                                      \pm 0.5\%
                                                  =
Character Width
                    = 8;
                                      // Pixels
                                                  =
                                                      123.1 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          5.1 %
Hor Sync Polarity
                     = NEGATIVE; // HBlank =
                                                     23.8% of HTotal
Ver Sync Polarity
                     = NEGATIVE; // VBlank =
                                                      4.7% of VTotal
Hor Total Time
                    = 20.677;
                                      // (usec)
                                                        168 chars =
                                                                        1344 Pixels
                                                             chars =
Hor Addr Time
                    = 15.754;
                                      // (usec)
                                                        128
                                                                        1024 Pixels
                                                  =
Hor Blank Start
                    = 15.754:
                                      // (usec)
                                                        128
                                                             chars =
                                                                        1024 Pixels
Hor Blank Time
                                                         40 \text{ chars} =
                    = 4.923;
                                      // (usec)
                                                  =
                                                                         320 Pixels
                                                                        1048 Pixels
Hor Sync Start
                    = 16.123;
                                      // (usec)
                                                        131
                                                             chars =
// H Right Border
                     = 0.000;
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.369:
                                                             chars =
                                                                          24 Pixels
                                      // (usec)
                                                          3
                                                  =
Hor Sync Time
                     = 2.092;
                                      // (usec)
                                                         17
                                                             chars =
                                                                         136 Pixels
// H Back Porch
                                                                         160 Pixels
                    = 2.462;
                                      // (usec)
                                                         20
                                                             chars =
                                                  =
// H Left Border
                    = 0.000;
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
Ver Total Time
                    = 16.666;
                                      // (msec)
                                                        806 lines
                                                                      HT - (1.06xHA)
                                                  =
Ver Addr Time
                    = 15.880;
                                      // (msec)
                                                        768 lines
                                                                           = 3.98
Ver Blank Start
                    = 15.880;
                                      // (msec)
                                                  =
                                                        768 lines
Ver Blank Time
                    = 0.786;
                                      // (msec)
                                                         38 lines
                                                        771 lines
Ver Sync Start
                    = 15.942;
                                      // (msec)
                                                  =
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                          0 lines
                                                  =
// V Front Porch
                     = 0.062;
                                      // (msec)
                                                          3 lines
Ver Svnc Time
                     = 0.124:
                                      // (msec)
                                                          6 lines
// V Back Porch
                     = 0.600;
                                                         29 lines
                                      // (msec)
                                                  =
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Adopted: 8/9/91 (VESA #910801-2)

Resolution: 1024 x 768 at 70 Hz (non-interlaced)

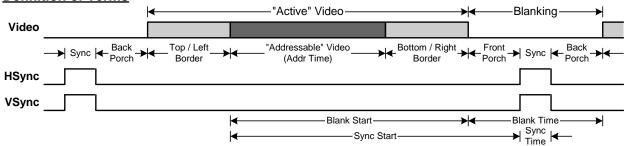
EDID ID: 061h, 04Ah

BIOS Modes: 104h, 105h, 116h, 117h, & 118h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1024 x 768 @ 70Hz;
Hor Pixels
                      1024:
                                      // Pixels
Ver Pixels
                                      // Lines
                    = 768;
Hor Frequency
                    = 56.476:
                                      // KHz
                                                       17.7 usec
                                                                    / line
                                                 =
Ver Frequency
                    = 70.069:
                                      // Hz
                                                       14.3 msec
                                                                      frame
Pixel Clock
                    = 75.000:
                                      // MHz
                                                       13.3 nsec
                                                                      \pm 0.5\%
Character Width
                    = 8;
                                      // Pixels
                                                      106.7 nsec
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         4.5 %
Hor Sync Polarity
                    = NEGATIVE; // HBlank =
                                                     22.9% of HTotal
Ver Sync Polarity
                    = NEGATIVE; // VBlank
                                                      4.7% of VTotal
Hor Total Time
                    = 17.707:
                                      // (usec)
                                                 =
                                                        166 chars =
                                                                        1328 Pixels
Hor Addr Time
                    = 13.653:
                                      // (usec)
                                                        128 \text{ chars} =
                                                                        1024 Pixels
Hor Blank Start
                                      // (usec)
                                                        128 chars =
                                                                        1024 Pixels
                    = 13.653;
                                                 =
Hor Blank Time
                    = 4.053:
                                      // (usec)
                                                         38 \text{ chars} =
                                                                         304 Pixels
                                                 =
                                                        131 chars =
Hor Sync Start
                    = 13.973;
                                      // (usec)
                                                 =
                                                                        1048 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                 =
                                                          0
                                                            chars =
                                                                           0 Pixels
// H Front Porch
                                                          3
                                                                          24 Pixels
                    = 0.320:
                                      // (usec)
                                                            chars =
                                                 =
Hor Svnc Time
                    = 1.813:
                                      // (usec)
                                                             chars =
                                                                         136 Pixels
                                                 =
// H Back Porch
                    = 1.920;
                                      // (usec)
                                                 =
                                                         18
                                                            chars =
                                                                         144 Pixels
// H Left Border
                    = 0.000;
                                      // (usec)
                                                            chars =
                                                                           0 Pixels
                                                          0
                                                 =
                                                                      HT - (1.06xHA)
Ver Total Time
                    = 14.272;
                                      // (msec)
                                                        806 lines
                                                 =
Ver Addr Time
                    = 13.599;
                                                        768 lines
                                                                           = 3.23
                                      // (msec)
                                                 =
Ver Blank Start
                    = 13.599;
                                      // (msec)
                                                        768 lines
                                                 =
Ver Blank Time
                    = 0.673;
                                      // (msec)
                                                 =
                                                         38 lines
Ver Sync Start
                    = 13.652;
                                      // (msec)
                                                        771 lines
// V Bottom Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.053:
                                      // (msec)
                                                          3 lines
                                                 =
Ver Sync Time
                    = 0.106;
                                      // (msec)
                                                          6 lines
// V Back Porch
                                                         29 lines
                    = 0.513;
                                      // (msec)
// V Top Border
                    = 0.000:
                                      // (msec)
                                                          0 lines
```



Adopted: 10/4/93

Resolution: 1024 x 768 at 75 Hz (non-interlaced)

EDID ID: 061h, 04Fh

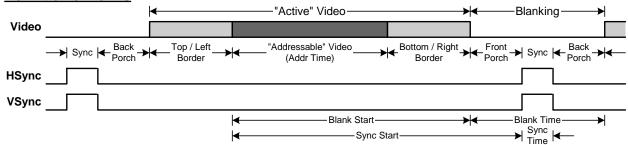
BIOS Modes: 104h, 105h, 116h, 117h, & 118h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1024 \times 768 @ 75Hz;
Hor Pixels
                      1024:
                                      // Pixels
Ver Pixels
                    = 768;
                                      // Lines
                    = 60.023:
                                      // KHz
Hor Frequency
                                                       16.7 usec
                                                                    / line
                                                 =
Ver Frequency
                    = 75.029;
                                      // Hz
                                                       13.3 msec
                                                                   / frame
                                                 =
Pixel Clock
                    = 78.750;
                                      // MHz
                                                       12.7 nsec
                                                                      \pm 0.5\%
                                                 =
Character Width
                                      // Pixels
                                                      101.6 nsec
                    = 8;
                    = NONINTERLACED;
Scan Type
                                                        // H Phase =
                                                                         6.1 %
Hor Sync Polarity
                    = POSITIVE;
                                      // HBlank
                                                     22.0% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                      4.0% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 16.660:
                                      // (usec)
                                                        164 chars =
                                                                        1312 Pixels
Hor Addr Time
                    = 13.003;
                                      // (usec)
                                                        128
                                                             chars =
                                                                        1024 Pixels
Hor Blank Start
                                                        128 chars =
                    = 13.003;
                                      // (usec)
                                                                        1024 Pixels
                                                 =
Hor Blank Time
                                      // (usec)
                                                         36 \text{ chars} =
                                                                         288 Pixels
                    = 3.657;
                                                 =
Hor Sync Start
                    = 13.206:
                                      // (usec)
                                                        130 \text{ chars} =
                                                                        1040 Pixels
// H Right Border
                    = 0.000:
                                                             chars =
                                      // (usec)
                                                                           0 Pixels
                                                 =
// H Front Porch
                    = 0.203;
                                      // (usec)
                                                          2
                                                             chars =
                                                                          16 Pixels
                                                 =
Hor Sync Time
                    = 1.219;
                                      // (usec)
                                                         12
                                                             chars =
                                                                          96 Pixels
                                                 =
// H Back Porch
                    = 2.235:
                                      // (usec)
                                                         22
                                                            chars =
                                                                         176 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                                 =
Ver Total Time
                    = 13.328;
                                      // (msec)
                                                        800 lines
                                                                      HT - (1.06xHA)
                                                 =
Ver Addr Time
                    = 12.795;
                                      // (msec)
                                                 =
                                                        768 lines
                                                                           = 2.88
Ver Blank Start
                    = 12.795:
                                      // (msec)
                                                        768 lines
                                                 =
Ver Blank Time
                                                         32 lines
                    = 0.533;
                                      // (msec)
                                                 =
Ver Sync Start
                    = 12.812:
                                      // (msec)
                                                 =
                                                        769 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                 =
                                                          0 lines
// V Front Porch
                    = 0.017:
                                      // (msec)
                                                          1 lines
                                                 =
Ver Sync Time
                                                          3 lines
                    = 0.050;
                                      // (msec)
                                                 =
// V Back Porch
                                                         28 lines
                    = 0.466:
                                      // (msec)
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```

The above 1024x768 timing is intended to come as close as possible to 75.000 Hz refresh within the constraints of an integer pixel clock and 8-pixel characters. This timing is already very close to the ideal rate with the integer clock; achieving exactly 75.000 Hz with the same parameters requires a 78.720 MHz pixel clock.



Proposed: 10/31/94 Adopted: 3/1/96

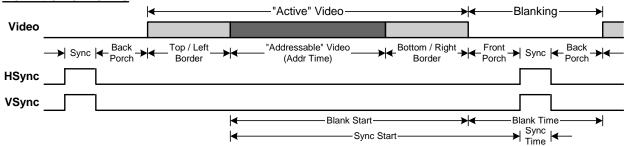
Resolution: 1024 x 768 at 85 Hz (non-interlaced)

EDID ID: 061h, 059h

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1024 \times 768 @ 85Hz;
Hor Pixels
                    = 1024:
                                      // Pixels
Ver Pixels
                    = 768;
                                      // Lines
Hor Frequency
                                      // KHz
                                                                   / line
                    = 68.677;
                                                       14.6 usec
                                                 =
Ver Frequency
                    = 84.997;
                                                       11.8 msec
                                      // Hz
                                                                     frame
                                                 =
Pixel Clock
                    = 94.500;
                                      // MHz
                                                       10.6 nsec
                                                                      \pm 0.5\%
                                                 =
Character Width
                    = 8;
                                      // Pixels
                                                 =
                                                       84.7 nsec
Scan Type
                                                                         5.8 %
                    = NONINTERLACED;
                                                        // H Phase =
Hor Sync Polarity
                    = POSITIVE;
                                      // HBlank =
                                                     25.6% of HTotal
Ver Sync Polarity
                    = POSITIVE;
                                      // VBlank
                                                      5.0% of VTotal
Hor Total Time
                    = 14.561;
                                      // (usec)
                                                        172 chars =
                                                                       1376 Pixels
                                                             chars =
Hor Addr Time
                    = 10.836;
                                      // (usec)
                                                        128
                                                                        1024 Pixels
                                                 =
Hor Blank Start
                    = 10.836:
                                      // (usec)
                                                        128
                                                             chars =
                                                                        1024 Pixels
Hor Blank Time
                                                         44
                                                             chars =
                    = 3.725;
                                      // (usec)
                                                 =
                                                                         352 Pixels
Hor Sync Start
                                                             chars =
                                                                        1072 Pixels
                    = 11.344;
                                      // (usec)
                                                        134
// H Right Border
                    = 0.000;
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.508;
                                                             chars =
                                                                          48 Pixels
                                      // (usec)
                                                          6
                                                 =
Hor Sync Time
                    = 1.016;
                                      // (usec)
                                                         12
                                                             chars =
                                                                          96 Pixels
// H Back Porch
                                                                         208 Pixels
                    = 2.201;
                                      // (usec)
                                                         26
                                                             chars =
                                                 =
// H Left Border
                    = 0.000;
                                                            chars =
                                                                           0 Pixels
                                      // (usec)
                                                 =
                                                          0
Ver Total Time
                    = 11.765;
                                      // (msec)
                                                        808 lines
                                                                      HT - (1.06xHA)
                                                 =
Ver Addr Time
                                      // (msec)
                                                        768 lines
                                                                           = 3.07
                    = 11.183;
Ver Blank Start
                    = 11.183;
                                      // (msec)
                                                 =
                                                        768 lines
Ver Blank Time
                    = 0.582;
                                      // (msec)
                                                         40 lines
                                                        769 lines
Ver Sync Start
                    = 11.197;
                                      // (msec)
                                                 =
// V Bottom Border
                                                          0 lines
                    = 0.000:
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.015;
                                      // (msec)
                                                          1 lines
Ver Svnc Time
                    = 0.044:
                                      // (msec)
                                                          3 lines
// V Back Porch
                    = 0.524;
                                                         36 lines
                                      // (msec)
                                                 =
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 10/31/94 Adopted: 3/1/96

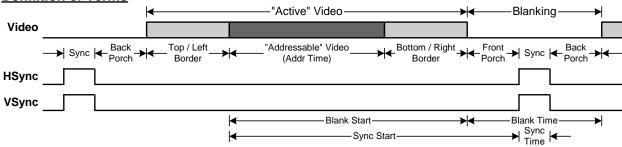
Resolution: 1152 x 864 at 75 Hz (non-interlaced)

EDID ID: 071h, 04Fh

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1152 \times 864 @ 75Hz;
                    = 1152;
Hor Pixels
                                       // Pixels
Ver Pixels
                                       // Lines
                     = 864;
Hor Frequency
                     = 67.500:
                                       // KHz
                                                        14.8 usec
                                                                     / line
                                                  =
Ver Frequency
                     = 75.000:
                                       // Hz
                                                        13.3 msec
                                                                       frame
Pixel Clock
                                       // MHz
                                                         9.3 nsec
                                                                       \pm 0.5\%
                     = 108.000:
Character Width
                     = 8:
                                       // Pixels
                                                  =
                                                        74.1 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                           6.0 %
                                       // HBlank =
Hor Sync Polarity
                                                      28.0% of HTotal
                     = POSITIVE;
Ver Sync Polarity
                                       // VBlank
                                                       4.0% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 14.815:
                                       // (usec)
                                                         200 \text{ chars} =
                                                                         1600 Pixels
Hor Addr Time
                     = 10.667;
                                       // (usec)
                                                         144
                                                              chars =
                                                                         1152 Pixels
Hor Blank Start
                                       // (usec)
                                                         144 chars =
                     = 10.667;
                                                                         1152 Pixels
                                                  =
Hor Blank Time
                     = 4.148:
                                       // (usec)
                                                          56 \text{ chars} =
                                                                          448 Pixels
                                                  =
Hor Sync Start
                     = 11.259;
                                       // (usec)
                                                  =
                                                         152 \text{ chars} =
                                                                         1216 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                  =
                                                           0
                                                              chars =
                                                                            0 Pixels
// H Front Porch
                     = 0.593;
                                       // (usec)
                                                           8
                                                              chars =
                                                                           64 Pixels
                                                  =
Hor Svnc Time
                     = 1.185:
                                       // (usec)
                                                          16
                                                              chars =
                                                                          128 Pixels
                                                  =
// H Back Porch
                     = 2.370;
                                       // (usec)
                                                  =
                                                          32
                                                              chars =
                                                                          256 Pixels
// H Left Border
                     = 0.000;
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                       // (usec)
                                                  =
Ver Total Time
                     = 13.333;
                                       // (msec)
                                                         900 lines
                                                                       HT - (1.06xHA)
                                                  =
Ver Addr Time
                     = 12.800;
                                                         864 lines
                                                                            = 3.51
                                       // (msec)
                                                  =
Ver Blank Start
                     = 12.800;
                                       // (msec)
                                                         864 lines
                                                  =
Ver Blank Time
                     = 0.533;
                                       // (msec)
                                                  =
                                                          36 lines
Ver Sync Start
                     = 12.815:
                                       // (msec)
                                                         865 lines
// V Bottom Border
                     = 0.000;
                                                           0 lines
                                       // (msec)
                                                  =
// V Front Porch
                     = 0.015:
                                       // (msec)
                                                           1 lines
                                                  =
Ver Sync Time
                     = 0.044:
                                       // (msec)
                                                           3 lines
// V Back Porch
                                                          32 lines
                     = 0.474;
                                       // (msec)
// V Top Border
                     = 0.000:
                                                           0 lines
                                       // (msec)
```



Proposed: 3/4/03 Adopted: 8/21/03

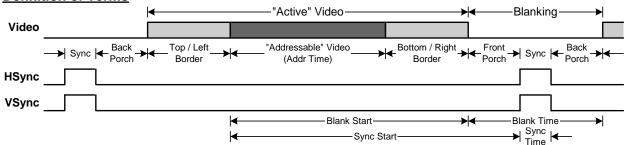
Resolution: 1280 x 768 at 60 Hz (non-interlaced) REDUCED BLANKING

EDID ID: n/a BIOS Modes: n/a

Method: CVT Reduced Blanking

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 0.98M9-R (1280x768 Reduced Blanking);
Hor Pixels
                                      // Pixels
                    = 1280:
Ver Pixels
                                      // Lines
                    = 768:
Hor Frequency
                    = 47.396;
                                      // KHz
                                                      21.1 usec
                                                                   / line
Ver Frequency
                    = 59.995;
                                      // Hz
                                                       16.7 msec
                                                                   / frame
                    = 68.250:
Pixel Clock
                                      // MHz
                                                       14.7 nsec
                                                                     +0.5\%
Character Width
                                      // Pixels
                                                     117.2 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                         1.1 %
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                    11.1% of HTotal
Ver Sync Polarity
                    = NEGATIVE // VBlank =
                                                      2.8% of VTotal
Hor Total Time
                    = 21.099;
                                      // (usec)
                                                       180 chars =
                                                                       1440 Pixels
Hor Addr Time
                    = 18.755:
                                                                       1280 Pixels
                                      // (usec)
                                                       160 \text{ chars} =
Hor Blank Start
                    = 18.755:
                                      // (usec)
                                                       160 \text{ chars} =
                                                                       1280 Pixels
                                                 =
Hor Blank Time
                    = 2.344;
                                      // (usec)
                                                        20 \text{ chars} =
                                                                        160 Pixels
                                                 =
Hor Sync Start
                    = 19.458;
                                      // (usec)
                                                       166 chars =
                                                                       1328 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                          0 Pixels
// H Front Porch
                    = 0.703:
                                      // (usec)
                                                 =
                                                          6 \text{ chars} =
                                                                         48 Pixels
Hor Sync Time
                    = 0.469:
                                      // (usec)
                                                            chars =
                                                                         32 Pixels
// H Back Porch
                    = 1.172;
                                      // (usec)
                                                        10 chars =
                                                                         80 Pixels
                                                 =
// H Left Border
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                    = 0.000:
                                      // (usec)
Ver Total Time
                                                       790 lines
                                                                     HT - (1.06xHA)
                    = 16.668:
                                      // (msec)
                                                                          = 1.22
Ver Addr Time
                    = 16.204:
                                      // (msec)
                                                       768 lines
Ver Blank Start
                    = 16.204;
                                                       768 lines
                                      // (msec)
Ver Blank Time
                                                        22 lines
                    = 0.464:
                                      // (msec)
                                                 =
Ver Sync Start
                    = 16.267;
                                      // (msec)
                                                 =
                                                       771 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                         0 lines
// V Front Porch
                    = 0.063;
                                                          3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.148:
                                      // (msec)
                                                          7 lines
                                                 =
// V Back Porch
                    = 0.253;
                                      // (msec)
                                                        12 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                         0 lines
```



Proposed: 3/4/03 Adopted: 8/21/03

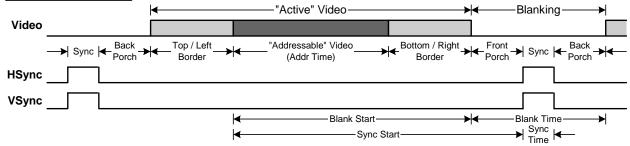
Resolution: 1280 x 768 at 60 Hz (non-interlaced)

EDID ID: n/a BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 0.98M9 @ 60Hz (1280x768);
Hor Pixels
                                      // Pixels
                    = 1280:
Ver Pixels
                                      // Lines
                    = 768:
Hor Frequency
                    = 47.776;
                                      // KHz
                                                       20.9 usec
                                                                    / line
Ver Frequency
                    = 59.870;
                                      // Hz
                                                       16.7 msec
                                                                    / frame
                    = 79.500:
Pixel Clock
                                      // MHz
                                                       12.6 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                      100.6 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                          3.8 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                     23.1% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                      3.8% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 20.931:
                                      // (usec)
                                                        208 \text{ chars} =
                                                                        1664 Pixels
Hor Addr Time
                    = 16.101:
                                                                        1280 Pixels
                                      // (usec)
                                                        160 \text{ chars} =
Hor Blank Start
                                      // (usec)
                                                        160 \text{ chars} =
                                                                        1280 Pixels
                    = 16.101;
                                                  =
Hor Blank Time
                    = 4.830;
                                      // (usec)
                                                         48 \text{ chars} =
                                                                         384 Pixels
                                                  =
Hor Sync Start
                     = 16.906;
                                      // (usec)
                                                        168 \text{ chars} =
                                                                        1344 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                                  =
// H Front Porch
                    = 0.805:
                                      // (usec)
                                                  =
                                                          8 \text{ chars} =
                                                                          64 Pixels
Hor Sync Time
                    = 1.610:
                                      // (usec)
                                                             chars =
                                                                         128 Pixels
                                                         16
// H Back Porch
                    = 2.415;
                                      // (usec)
                                                         24 chars =
                                                                         192 Pixels
                                                  =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
Ver Total Time
                    = 16.703:
                                                        798 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                                                        768 lines
Ver Addr Time
                    = 16.075:
                                      // (msec)
                                                                           = 3.86
Ver Blank Start
                    = 16.075;
                                                        768 lines
                                      // (msec)
Ver Blank Time
                    = 0.628:
                                      // (msec)
                                                         30 lines
                                                  =
Ver Sync Start
                    = 16.138;
                                      // (msec)
                                                  =
                                                        771 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                          0 lines
// V Front Porch
                    = 0.063;
                                                          3 lines
                                      // (msec)
                                                  =
Ver Sync Time
                    = 0.147:
                                      // (msec)
                                                          7 lines
                                                  =
// V Back Porch
                    = 0.419:
                                      // (msec)
                                                         20 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 3/4/03 Adopted: 8/21/03

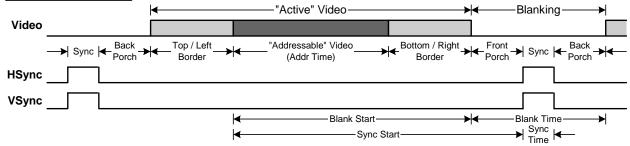
Resolution: 1280 x 768 at 75 Hz (non-interlaced)

EDID ID: n/a BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 0.98M9 @ 75Hz (1280x768);
Hor Pixels
                                      // Pixels
                    = 1280:
Ver Pixels
                                      // Lines
                    = 768:
Hor Frequency
                    = 60.289:
                                      // KHz
                                                       16.6 usec
                                                                   / line
Ver Frequency
                    = 74.893;
                                      // Hz
                                                       13.4 msec
                                                                   / frame
Pixel Clock
                    = 102.250:
                                      // MHz
                                                 =
                                                        9.8 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       78.2 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         3.8 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                     24.5% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                      4.6% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 16.587:
                                      // (usec)
                                                        212 \text{ chars} =
                                                                       1696 Pixels
Hor Addr Time
                    = 12.518:
                                                                       1280 Pixels
                                      // (usec)
                                                        160 \text{ chars} =
Hor Blank Start
                    = 12.518:
                                      // (usec)
                                                        160 \text{ chars} =
                                                                       1280 Pixels
                                                 =
Hor Blank Time
                    = 4.068;
                                      // (usec)
                                                         52 \text{ chars} =
                                                                        416 Pixels
                                                 =
Hor Sync Start
                    = 13.301;
                                      // (usec)
                                                        170 \text{ chars} =
                                                                       1360 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                                 =
// H Front Porch
                    = 0.782:
                                      // (usec)
                                                 =
                                                         10 chars =
                                                                          80 Pixels
Hor Sync Time
                    = 1.252:
                                      // (usec)
                                                         16 chars =
                                                                         128 Pixels
// H Back Porch
                    = 2.034;
                                      // (usec)
                                                         26 chars =
                                                                        208 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
Ver Total Time
                    = 13.352:
                                                        805 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                    = 12.739:
                                                                           = 3.32
Ver Addr Time
                                      // (msec)
                                                        768 lines
Ver Blank Start
                    = 12.739;
                                                        768 lines
                                      // (msec)
Ver Blank Time
                    = 0.614:
                                      // (msec)
                                                         37 lines
                                                 =
Ver Sync Start
                    = 12.788;
                                      // (msec)
                                                 =
                                                       771 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                          0 lines
// V Front Porch
                    = 0.050;
                                                          3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.116:
                                      // (msec)
                                                          7 lines
                                                 =
// V Back Porch
                    = 0.448:
                                      // (msec)
                                                         27 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 3/4/03 Adopted: 8/21/03

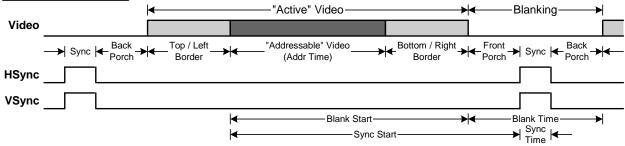
Resolution: 1280 x 768 at 85 Hz (non-interlaced)

EDID ID: n/a BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 0.98M9 @ 85Hz (1280x768);
Hor Pixels
                                      // Pixels
                    = 1280:
Ver Pixels
                                      // Lines
                    = 768:
Hor Frequency
                    = 68.633:
                                      // KHz
                                                       14.6 usec
                                                                   / line
Ver Frequency
                    = 84.837;
                                      // Hz
                                                       11.8 msec
                                                                   / frame
                    = 117.500:
Pixel Clock
                                      // MHz
                                                 =
                                                        8.5 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       68.1 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         4.0 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                     25.2% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                      5.1% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 14.570;
                                      // (usec)
                                                        214 \text{ chars} =
                                                                       1712 Pixels
Hor Addr Time
                    = 10.894:
                                                                       1280 Pixels
                                      // (usec)
                                                        160 \text{ chars} =
Hor Blank Start
                    = 10.894;
                                      // (usec)
                                                        160 \text{ chars} =
                                                                       1280 Pixels
                                                 =
Hor Blank Time
                    = 3.677;
                                      // (usec)
                                                         54 \text{ chars} =
                                                                        432 Pixels
                                                 =
Hor Sync Start
                    = 11.574;
                                      // (usec)
                                                        170 \text{ chars} =
                                                                       1360 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                                 =
// H Front Porch
                    = 0.681:
                                      // (usec)
                                                 =
                                                         10 chars =
                                                                          80 Pixels
Hor Sync Time
                                      // (usec)
                                                            chars =
                                                                        136 Pixels
                    = 1.157;
                                                         17
// H Back Porch
                    = 1.838;
                                      // (usec)
                                                         27 chars =
                                                                        216 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
Ver Total Time
                    = 11.787:
                                                        809 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                    = 11.190;
Ver Addr Time
                                      // (msec)
                                                        768 lines
                                                                           = 3.02
Ver Blank Start
                    = 11.190;
                                                        768 lines
                                      // (msec)
Ver Blank Time
                    = 0.597:
                                      // (msec)
                                                        41 lines
                                                 =
Ver Sync Start
                    = 11.234;
                                      // (msec)
                                                 =
                                                       771 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                          0 lines
// V Front Porch
                    = 0.044;
                                                          3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.102:
                                      // (msec)
                                                          7 lines
                                                 =
// V Back Porch
                    = 0.452;
                                      // (msec)
                                                         31 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 10/31/94 Adopted: 3/1/96

Resolution: 1280 x 960 at 60 Hz (non-interlaced)

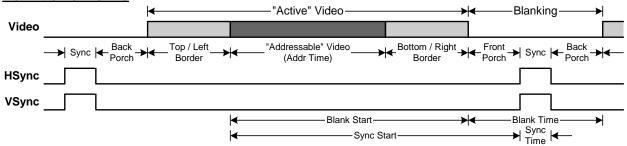
EDID ID: 081h, 040h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1280 x 960 @ 60Hz;
Hor Pixels
                    = 1280:
                                      // Pixels
Ver Pixels
                    = 960;
                                      // Lines
Hor Frequency
                    = 60.000;
                                      // KHz
                                                       16.7 usec
                                                                    / line
Ver Frequency
                    = 60.000;
                                      // Hz
                                                 =
                                                       16.7 msec
                                                                   / frame
Pixel Clock
                    = 108.000;
                                      // MHz
                                                        9.3 nsec
                                                                      \pm 0.5\%
Character Width
                                      // Pixels
                                                       74.1 nsec
                    = 8;
                                                 =
                    = NONINTERLACED;
Scan Type
                                                        // H Phase =
                                                                         6.0 %
Hor Sync Polarity
                                      // HBlank =
                                                    28.9% of HTotal
                    = POSITIVE;
Ver Sync Polarity
                    = POSITIVE;
                                      // VBlank
                                                      4.0% of VTotal
                                                 =
Hor Total Time
                    = 16.667;
                                      // (usec)
                                                        225 chars =
                                                                        1800 Pixels
Hor Addr Time
                    = 11.852:
                                      // (usec)
                                                        160 \text{ chars} =
                                                                        1280 Pixels
Hor Blank Start
                    = 11.852;
                                      // (usec)
                                                 =
                                                        160
                                                             chars =
                                                                        1280 Pixels
Hor Blank Time
                                                                         520 Pixels
                    = 4.815;
                                      // (usec)
                                                 =
                                                         65 \text{ chars} =
Hor Sync Start
                    = 12.741;
                                      // (usec)
                                                        172 chars =
                                                                        1376 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
                                                 =
// H Front Porch
                    = 0.889;
                                      // (usec)
                                                 =
                                                         12
                                                             chars =
                                                                          96 Pixels
Hor Sync Time
                    = 1.037;
                                      // (usec)
                                                                         112 Pixels
                                                         14
                                                             chars =
// H Back Porch
                    = 2.889;
                                      // (usec)
                                                            chars =
                                                                         312 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
Ver Total Time
                    = 16.667:
                                      // (msec)
                                                       1000 lines
                                                                      HT - (1.06xHA)
Ver Addr Time
                    = 16.000:
                                      // (msec)
                                                        960 lines
                                                                           = 4.1
Ver Blank Start
                    = 16.000;
                                      // (msec)
                                                        960 lines
Ver Blank Time
                                                         40 lines
                    = 0.667;
                                      // (msec)
                                                 =
Ver Sync Start
                    = 16.017;
                                      // (msec)
                                                 =
                                                        961 lines
// V Bottom Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.017;
                                      // (msec)
                                                          1 lines
                                                 =
Ver Sync Time
                    = 0.050;
                                                          3 lines
                                      // (msec)
                                                 =
// V Back Porch
                                                         36 lines
                    = 0.600;
                                      // (msec)
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 10/10/95 Adopted: 3/1/96

Resolution: 1280 x 960 at 85 Hz (non-interlaced)

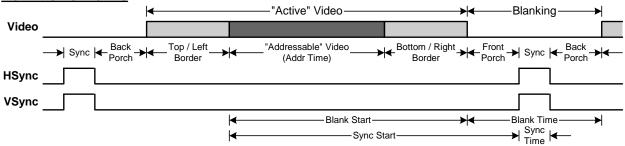
EDID ID: 081h, 059h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> Pre-Adjusted Timing Data

```
Timing Name
                    = 1280 \times 960 \otimes 85Hz;
Hor Pixels
                    = 1280:
                                      // Pixels
Ver Pixels
                     = 960;
                                      // Lines
                    = 85.938;
Hor Frequency
                                      // KHz
                                                        11.6 usec
                                                                    / line
Ver Frequency
                    = 85.002;
                                      // Hz
                                                  =
                                                        11.8 msec
                                                                    / frame
Pixel Clock
                     = 148.500;
                                      // MHz
                                                         6.7 nsec
                                                                      \pm 0.5\%
Character Width
                                      // Pixels
                                                       53.9 nsec
                    = 8;
                                                  =
                    = NONINTERLACED;
Scan Type
                                                         // H Phase =
                                                                          4.6 %
Hor Sync Polarity
                                      // HBlank = 25.9% of HTotal
                    = POSITIVE;
Ver Sync Polarity
                    = POSITIVE;
                                      // VBlank =
                                                       5.0% of VTotal
Hor Total Time
                    = 11.636;
                                      // (usec)
                                                        216 chars =
                                                                        1728 Pixels
Hor Addr Time
                    = 8.620:
                                      // (usec)
                                                        160 \text{ chars} =
                                                                        1280 Pixels
Hor Blank Start
                    = 8.620;
                                      // (usec)
                                                  =
                                                        160 \text{ chars} =
                                                                        1280 Pixels
Hor Blank Time
                                                                         448 Pixels
                    = 3.017;
                                      // (usec)
                                                  =
                                                         56 \text{ chars} =
Hor Sync Start
                                      // (usec)
                                                        168
                                                             chars =
                                                                        1344 Pixels
                    = 9.051;
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
                                                  =
// H Front Porch
                    = 0.431;
                                      // (usec)
                                                          8
                                                             chars =
                                                                          64 Pixels
Hor Sync Time
                    = 1.077;
                                      // (usec)
                                                                         160 Pixels
                                                         20
                                                             chars =
// H Back Porch
                    = 1.508;
                                      // (usec)
                                                             chars =
                                                                         224 Pixels
                                                  =
// H Left Border
                     = 0.000:
                                                             chars =
                                                                            0 Pixels
                                      // (usec)
                                                          0
Ver Total Time
                    = 11.764;
                                      // (msec)
                                                       1011 lines
                                                                      HT - (1.06xHA)
                                                        960 lines
Ver Addr Time
                    = 11.171:
                                      // (msec)
                                                                            = 2.5
Ver Blank Start
                    = 11.171;
                                      // (msec)
                                                        960 lines
Ver Blank Time
                    = 0.593;
                                                         51 lines
                                      // (msec)
                                                  =
Ver Sync Start
                    = 11.183;
                                      // (msec)
                                                  =
                                                        961 lines
// V Bottom Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
                                                  =
// V Front Porch
                    = 0.012;
                                      // (msec)
                                                          1 lines
                                                  =
Ver Sync Time
                    = 0.035;
                                                          3 lines
                                      // (msec)
                                                  =
// V Back Porch
                     = 0.547;
                                      // (msec)
                                                         47 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Adopted: 12/18/96

Resolution: 1280 x 1024 at 60 Hz (non-interlaced)

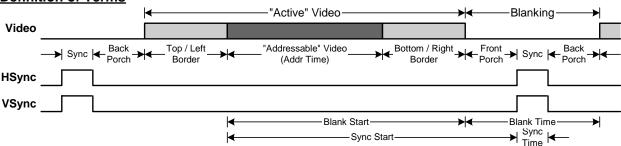
EDID ID: 081h, 080h

BIOS Modes: 106h, 107h, 119h, 11Ah, & 11Bh (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1280 x 1024 @ 60Hz:
Hor Pixels
                                      // Pixels
                    = 1280:
Ver Pixels
                    = 1024;
                                      // Lines
                    = 63.981:
                                      // KHz
Hor Frequency
                                                       15.6 usec
                                                                    / line
                                                  =
Ver Frequency
                     = 60.020;
                                      // Hz
                                                       16.7 msec
                                                                      frame
Pixel Clock
                     = 108.000;
                                      // MHz
                                                        9.3 nsec
                                                                      \pm 0.5\%
Character Width
                    = 8:
                                      // Pixels
                                                       74.1 nsec
                                                  =
                                                                         5.9 %
Scan Type
                     = NONINTERLACED;
                                                        // H Phase =
Hor Sync Polarity
                                      // HBlank
                                                     24.2% of HTotal
                     = POSITIVE:
Ver Sync Polarity
                                      // VBlank
                                                       3.9% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 15.630:
                                      // (usec)
                                                        211 \text{ chars} =
                                                                        1688 Pixels
Hor Addr Time
                    = 11.852;
                                      // (usec)
                                                        160 \text{ chars} =
                                                                        1280 Pixels
Hor Blank Start
                    = 11.852;
                                      // (usec)
                                                        160
                                                             chars =
                                                                        1280 Pixels
                                                  =
Hor Blank Time
                    = 3.778:
                                      // (usec)
                                                         51
                                                             chars =
                                                                         408 Pixels
Hor Sync Start
                                                             chars =
                                                                        1328 Pixels
                    = 12.296;
                                      // (usec)
                                                        166
                                                  =
// H Right Border
                     = 0.000:
                                                             chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                     = 0.444;
                                      // (usec)
                                                          6
                                                             chars =
                                                                          48 Pixels
Hor Sync Time
                    = 1.037;
                                      // (usec)
                                                             chars =
                                                                         112 Pixels
                                                         14
                                                  =
// H Back Porch
                    = 2.296;
                                      // (usec)
                                                         31 chars =
                                                                         248 Pixels
                                                  =
// H Left Border
                     = 0.000;
                                      // (usec)
                                                  =
                                                          0 chars =
                                                                           0 Pixels
                                                                      HT - (1.06xHA)
Ver Total Time
                    = 16.661;
                                      // (msec)
                                                       1066 lines
                                                  =
Ver Addr Time
                                                       1024 lines
                                                                           = 3.07
                    = 16.005;
                                      // (msec)
                                                  =
Ver Blank Start
                    = 16.005:
                                      // (msec)
                                                       1024 lines
                                                  =
Ver Blank Time
                    = 0.656;
                                      // (msec)
                                                         42 lines
Ver Sync Start
                     = 16.020;
                                      // (msec)
                                                       1025 lines
// V Bottom Border
                    = 0.000:
                                                          0 lines
                                      // (msec)
// V Front Porch
                     = 0.016:
                                      // (msec)
                                                  =
                                                          1 lines
Ver Sync Time
                                                          3 lines
                     = 0.047:
                                      // (msec)
                                                  =
// V Back Porch
                     = 0.594;
                                      // (msec)
                                                         38 lines
                                                  =
// V Top Border
                     = 0.000:
                                      // (msec)
                                                          0 lines
```



Adopted: 10/4/93

Resolution: 1280 x 1024 at 75 Hz (non-interlaced)

EDID ID: 081h, 08Fh

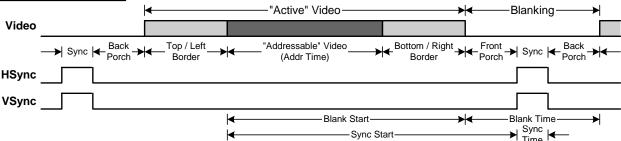
BIOS Modes: 106h, 107h, 119h, 11Ah, & 11Bh (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1280 \times 1024 @ 75Hz;
Hor Pixels
                      1280:
                                      // Pixels
Ver Pixels
                    = 1024;
                                      // Lines
Hor Frequency
                    = 79.976;
                                      // KHz
                                                        12.5 usec
                                                                    / line
                                                  =
Ver Frequency
                     = 75.025;
                                      // Hz
                                                        13.3 msec
                                                                    / frame
                                                  =
Pixel Clock
                     = 135.000;
                                      // MHz
                                                         7.4 nsec
                                                                      \pm 0.5\%
                                                  =
Character Width
                    = 8;
                                      // Pixels
                                                       59.3 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          6.9 %
Hor Sync Polarity
                     = POSITIVE:
                                      // HBlank
                                                     24.2% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                       3.9% of VTotal
                                                             chars =
                                                                        1688 Pixels
Hor Total Time
                    = 12.504:
                                      // (usec)
                                                        211
Hor Addr Time
                    = 9.481;
                                      // (usec)
                                                        160 \text{ chars} =
                                                                        1280 Pixels
Hor Blank Start
                    = 9.481;
                                      // (usec)
                                                        160 chars =
                                                                        1280 Pixels
                                                  =
Hor Blank Time
                    = 3.022:
                                      // (usec)
                                                         51
                                                             chars =
                                                                         408 Pixels
                                                  =
Hor Sync Start
                     = 9.600;
                                      // (usec)
                                                        162 \text{ chars} =
                                                                        1296 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                             chars =
                                                                           0 Pixels
                                                  =
// H Front Porch
                    = 0.119;
                                      // (usec)
                                                  =
                                                          2
                                                             chars =
                                                                          16 Pixels
Hor Sync Time
                    = 1.067;
                                      // (usec)
                                                                         144 Pixels
                                                  =
                                                         18
                                                             chars =
// H Back Porch
                    = 1.837:
                                      // (usec)
                                                         31
                                                             chars =
                                                                         248 Pixels
// H Left Border
                                                                           0 Pixels
                    = 0.000;
                                                          0
                                                             chars =
                                      // (usec)
Ver Total Time
                    = 13.329;
                                                       1066 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                                                  =
Ver Addr Time
                    = 12.804:
                                      // (msec)
                                                       1024 lines
                                                                           = 2.45
                                                  =
Ver Blank Start
                    = 12.804;
                                      // (msec)
                                                  =
                                                       1024 lines
Ver Blank Time
                    = 0.525;
                                      // (msec)
                                                         42 lines
                                                       1025 lines
Ver Sync Start
                    = 12.816;
                                      // (msec)
// V Bottom Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
                                                  =
// V Front Porch
                     = 0.013:
                                                          1 lines
                                      // (msec)
Ver Sync Time
                                                          3 lines
                    = 0.038;
                                      // (msec)
                                                  =
// V Back Porch
                     = 0.475;
                                      // (msec)
                                                         38 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```

The above 1280x1024 timing is intended to come as close as possible to 75.000 Hz refresh within the constraints of an integer pixel clock and 8-pixel characters. This timing is already very close to the ideal rate with the integer clock; achieving exactly 75.000 Hz with the same parameters requires a 134.956 MHz pixel clock.



Proposed: 10/10/95 Adopted: 3/1/96

Resolution: 1280 x 1024 at 85 Hz (non-interlaced)

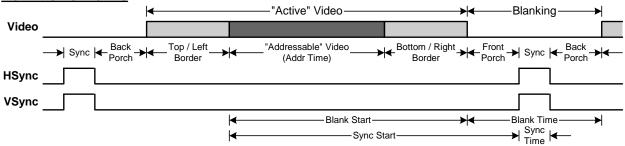
EDID ID: 081h, 099h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1280 x 1024 @ 85Hz;
Hor Pixels
                    = 1280:
                                      // Pixels
Ver Pixels
                    = 1024:
                                      // Lines
Hor Frequency
                    = 91.146:
                                      // KHz
                                                       11.0 usec
                                                                   / line
Ver Frequency
                    = 85.024;
                                      // Hz
                                                 =
                                                       11.8 msec
                                                                   / frame
Pixel Clock
                    = 157.500;
                                      // MHz
                                                        6.3 nsec
                                                                      \pm 0.5\%
Character Width
                                      // Pixels
                                                       50.8 nsec
                    = 8;
                                                 =
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         4.6 %
Hor Sync Polarity
                                      // HBlank = 25.9% of HTotal
                    = POSITIVE;
Ver Sync Polarity
                    = POSITIVE;
                                      // VBlank =
                                                      4.5% of VTotal
Hor Total Time
                    = 10.971;
                                      // (usec)
                                                        216 chars =
                                                                       1728 Pixels
                                                 =
Hor Addr Time
                    = 8.127;
                                      // (usec)
                                                        160 \text{ chars} =
                                                                       1280 Pixels
Hor Blank Start
                    = 8.127;
                                      // (usec)
                                                 =
                                                        160 \text{ chars} =
                                                                       1280 Pixels
Hor Blank Time
                                                                        448 Pixels
                    = 2.844;
                                      // (usec)
                                                 =
                                                         56 \text{ chars} =
Hor Sync Start
                    = 8.533;
                                      // (usec)
                                                        168
                                                            chars =
                                                                       1344 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
                                                 =
// H Front Porch
                    = 0.406;
                                      // (usec)
                                                 =
                                                          8
                                                            chars =
                                                                          64 Pixels
Hor Sync Time
                    = 1.016:
                                      // (usec)
                                                                        160 Pixels
                                                         20
                                                             chars =
// H Back Porch
                    = 1.422;
                                      // (usec)
                                                            chars =
                                                                        224 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                      // (usec)
                                                            chars =
                                                                           0 Pixels
                                                          0
Ver Total Time
                    = 11.761:
                                      // (msec)
                                                      1072 lines
                                                                      HT - (1.06xHA)
Ver Addr Time
                    = 11.235:
                                      // (msec)
                                                      1024 lines
                                                                           = 2.36
Ver Blank Start
                    = 11.235;
                                      // (msec)
                                                      1024 lines
Ver Blank Time
                    = 0.527;
                                                         48 lines
                                      // (msec)
                                                 =
Ver Sync Start
                    = 11.246;
                                      // (msec)
                                                 =
                                                      1025 lines
// V Bottom Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.011;
                                      // (msec)
                                                          1 lines
                                                 =
Ver Sync Time
                    = 0.033;
                                                          3 lines
                                      // (msec)
                                                 =
// V Back Porch
                    = 0.483;
                                      // (msec)
                                                         44 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 3/4/03 Adopted: 8/21/03

Resolution: 1360 x 768 at 60 Hz (non-interlaced)

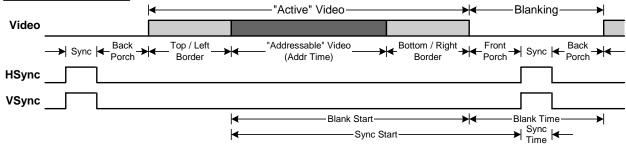
EDID ID: 8Bh, C0h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1360x768 @ 60Hz;
Hor Pixels
                                      // Pixels
                    = 1360:
Ver Pixels
                                      // Lines
                    = 768:
Hor Frequency
                    = 47.712;
                                      // KHz
                                                       21.0 usec
                                                                   / line
Ver Frequency
                    = 60.015;
                                                       16.7 msec
                                                                   / frame
                                      // Hz
                    = 85.500:
Pixel Clock
                                      // MHz
                                                 =
                                                       11.7 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       93.6 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         5.4 %
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                     24.1% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                      3.4% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 20.959;
                                      // (usec)
                                                        224 chars =
                                                                       1792 Pixels
Hor Addr Time
                    = 15.906:
                                                                       1360 Pixels
                                      // (usec)
                                                        170 \text{ chars} =
Hor Blank Start
                    = 15.906;
                                      // (usec)
                                                        170 \text{ chars} =
                                                                       1360 Pixels
Hor Blank Time
                                      // (usec)
                                                         54 \text{ chars} =
                                                                        432 Pixels
                    = 5.053;
                                                 =
Hor Sync Start
                    = 16.655;
                                      // (usec)
                                                        178 \text{ chars} =
                                                                       1424 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.749;
                                      // (usec)
                                                 =
                                                          8 \text{ chars} =
                                                                          64 Pixels
Hor Sync Time
                    = 1.310:
                                      // (usec)
                                                                        112 Pixels
                                                         14
                                                            chars =
// H Back Porch
                    = 2.994;
                                      // (usec)
                                                         32 chars =
                                                                        256 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                    = 16.662;
Ver Total Time
                                                        795 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 16.097:
                                      // (msec)
                                                        768 lines
                                                                           = 4.1
Ver Blank Start
                                                        768 lines
                    = 16.097;
                                      // (msec)
Ver Blank Time
                    = 0.566:
                                      // (msec)
                                                         27 lines
                                                 =
Ver Sync Start
                    = 16.159;
                                      // (msec)
                                                 =
                                                       771 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                          0 lines
// V Front Porch
                    = 0.063;
                                                          3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.126:
                                      // (msec)
                                                          6 lines
                                                 =
// V Back Porch
                    = 0.377;
                                      // (msec)
                                                         18 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 5/13/03 Adopted: 8/21/03

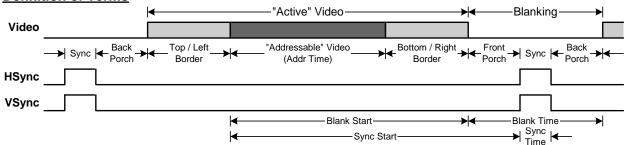
Resolution: 1400 x 1050 at 60 Hz (non-interlaced) REDUCED BLANKING

EDID ID: n/a BIOS Modes: n/a

Method: CVT Reduced Blanking

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.47M3-R (1400x1050 Reduced Blanking);
Hor Pixels
                                      // Pixels
                    = 1400:
Ver Pixels
                                      // Lines
                    = 1050:
Hor Frequency
                    = 64.744:
                                      // KHz
                                                       15.4 usec
                                                                   / line
Ver Frequency
                    = 59.948;
                                      // Hz
                                                       16.7 msec
                                                                   / frame
Pixel Clock
                    = 101.000:
                                      // MHz
                                                 =
                                                        9.9 nsec
                                                                     +0.5\%
Character Width
                                      // Pixels
                                                       79.2 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                         1.0 %
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                    10.3% of HTotal
Ver Sync Polarity
                    = NEGATIVE // VBlank =
                                                      2.8% of VTotal
Hor Total Time
                    = 15.446;
                                      // (usec)
                                                       195 chars =
                                                                       1560 Pixels
Hor Addr Time
                                                       175 chars =
                                                                       1400 Pixels
                    = 13.861:
                                      // (usec)
Hor Blank Start
                    = 13.861:
                                      // (usec)
                                                       175 \text{ chars} =
                                                                       1400 Pixels
Hor Blank Time
                    = 1.584;
                                      // (usec)
                                                        20 \text{ chars} =
                                                                        160 Pixels
                                                 =
Hor Sync Start
                    = 14.337;
                                      // (usec)
                                                       181 \text{ chars} =
                                                                       1448 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                          0 Pixels
// H Front Porch
                    = 0.475:
                                      // (usec)
                                                 =
                                                          6 \text{ chars} =
                                                                         48 Pixels
Hor Sync Time
                    = 0.317:
                                      // (usec)
                                                            chars =
                                                                         32 Pixels
// H Back Porch
                    = 0.792:
                                      // (usec)
                                                        10 chars =
                                                                         80 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                          0 Pixels
                                      // (usec)
Ver Total Time
                    = 16.681:
                                                      1080 lines
                                                                     HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 16.218:
                                      // (msec)
                                                      1050 lines
                                                                          = 0.75
Ver Blank Start
                    = 16.218;
                                                      1050 lines
                                      // (msec)
Ver Blank Time
                    = 0.463:
                                      // (msec)
                                                         30 lines
                                                 =
Ver Sync Start
                    = 16.264;
                                      // (msec)
                                                 =
                                                      1053 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                         0 lines
// V Front Porch
                    = 0.046;
                                                          3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.062:
                                      // (msec)
                                                          4 lines
                                                 =
// V Back Porch
                    = 0.355:
                                      // (msec)
                                                        23 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                         0 lines
```



Proposed: 5/13/03 Adopted: 8/21/03

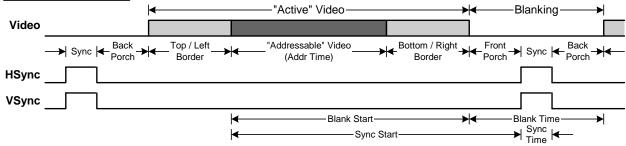
Resolution: 1400 x 1050 at 60 Hz (non-interlaced)

EDID ID: 90h, 40h BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.47M3 @ 60Hz (1400x1050);
Hor Pixels
                                      // Pixels
                    = 1400:
Ver Pixels
                                     // Lines
                    = 1050:
Hor Frequency
                    = 65.317:
                                      // KHz
                                                      15.3 usec
                                                                   / line
Ver Frequency
                    = 59.978;
                                      // Hz
                                                      16.7 msec
                                                                  / frame
Pixel Clock
                    = 121.750:
                                     // MHz
                                                 =
                                                       8.2 nsec
                                                                     +0.5\%
Character Width
                                      // Pixels
                                                      65.7 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                        3.9 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                    24.9% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                     3.6% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 15.310;
                                      // (usec)
                                                       233 chars =
                                                                      1864 Pixels
Hor Addr Time
                    = 11.499;
                                                       175 chars =
                                                                       1400 Pixels
                                      // (usec)
                    = 11.499;
Hor Blank Start
                                      // (usec)
                                                       175 \text{ chars} =
                                                                      1400 Pixels
                                                 =
Hor Blank Time
                    = 3.811;
                                      // (usec)
                                                        58 \text{ chars} =
                                                                        464 Pixels
                                                 =
Hor Sync Start
                    = 12.222:
                                      // (usec)
                                                       186 \text{ chars} =
                                                                       1488 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                                 =
// H Front Porch
                    = 0.723:
                                      // (usec)
                                                 =
                                                        11 chars =
                                                                         88 Pixels
Hor Sync Time
                    = 1.183:
                                      // (usec)
                                                            chars =
                                                                        144 Pixels
                                                 =
                                                        18
// H Back Porch
                    = 1.906;
                                      // (usec)
                                                        29 chars =
                                                                        232 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                      // (usec)
Ver Total Time
                    = 16.673:
                                                      1089 lines
                                                                     HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 16.076;
                                      // (msec)
                                                      1050 lines
                                                                          = 3.12
Ver Blank Start
                    = 16.076;
                                                      1050 lines
                                      // (msec)
Ver Blank Time
                    = 0.597:
                                      // (msec)
                                                        39 lines
                                                 =
Ver Sync Start
                    = 16.121;
                                      // (msec)
                                                 =
                                                      1053 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                         0 lines
// V Front Porch
                    = 0.046;
                                                         3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.061:
                                      // (msec)
                                                         4 lines
                                                 =
// V Back Porch
                    = 0.490;
                                      // (msec)
                                                        32 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                         0 lines
```



Proposed: 5/13/03 Adopted: 8/21/03

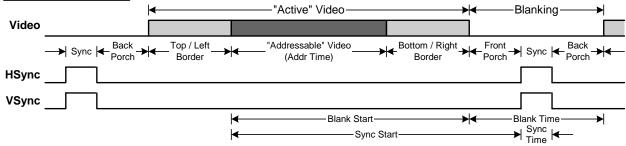
Resolution: 1400x1050 at 75 Hz (non-interlaced)

EDID ID: 90h, 4Fh BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> Pre-Adjusted Timing Data

```
Timing Name
                    = 1.47M3 @ 75Hz (1400x1050);
Hor Pixels
                                      // Pixels
                    = 1400:
Ver Pixels
                                      // Lines
                    = 1050:
Hor Frequency
                    = 82.278:
                                      // KHz
                                                      12.2 usec
                                                                   / line
Ver Frequency
                    = 74.867;
                                      // Hz
                                                      13.4 msec
                                                                   / frame
Pixel Clock
                    = 156.000:
                                     // MHz
                                                 =
                                                       6.4 nsec
                                                                     +0.5\%
Character Width
                                      // Pixels
                                                      51.3 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                        3.8 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                    26.2% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                     4.5% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 12.154:
                                      // (usec)
                                                       237 chars =
                                                                      1896 Pixels
Hor Addr Time
                                                       175 chars =
                                                                       1400 Pixels
                    = 8.974:
                                      // (usec)
Hor Blank Start
                    = 8.974;
                                      // (usec)
                                                       175 \text{ chars} =
                                                                       1400 Pixels
                                                 =
Hor Blank Time
                    = 3.179;
                                      // (usec)
                                                        62 \text{ chars} =
                                                                        496 Pixels
                                                 =
Hor Sync Start
                    = 9.641;
                                      // (usec)
                                                       188 \text{ chars} =
                                                                      1504 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                                 =
// H Front Porch
                    = 0.667:
                                      // (usec)
                                                 =
                                                        13 chars =
                                                                        104 Pixels
Hor Sync Time
                    = 0.923:
                                      // (usec)
                                                           chars =
                                                                        144 Pixels
// H Back Porch
                    = 1.590;
                                      // (usec)
                                                        31 chars =
                                                                        248 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                      // (usec)
Ver Total Time
                    = 13.357:
                                                      1099 lines
                                                                     HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 12.762:
                                      // (msec)
                                                      1050 lines
                                                                          = 2.64
Ver Blank Start
                    = 12.762;
                                                      1050 lines
                                      // (msec)
Ver Blank Time
                    = 0.596:
                                      // (msec)
                                                        49 lines
                                                 =
Ver Sync Start
                    = 12.798;
                                      // (msec)
                                                 =
                                                      1053 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                         0 lines
// V Front Porch
                    = 0.036;
                                                         3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.049:
                                      // (msec)
                                                         4 lines
                                                 =
// V Back Porch
                    = 0.510:
                                      // (msec)
                                                        42 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                         0 lines
```



Proposed: 5/13/03 Adopted: 8/21/03

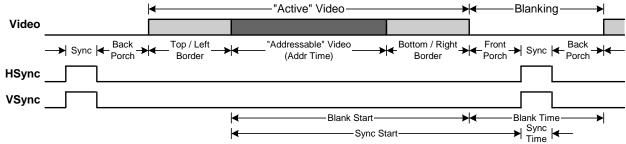
Resolution: 1400 x 1050 at 85 Hz (non-interlaced)

EDID ID: 90h, 59h BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.47M3 @ 85Hz (1400x1050);
Hor Pixels
                                      // Pixels
                    = 1400:
Ver Pixels
                                      // Lines
                    = 1050:
Hor Frequency
                    = 93.881:
                                      // KHz
                                                       10.7 usec
                                                                   / line
Ver Frequency
                    = 84.960;
                                      // Hz
                                                       11.8 msec
                                                                   / frame
                    = 179.500:
Pixel Clock
                                      // MHz
                                                 =
                                                        5.6 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       44.6 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         4.0 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                     26.8% of HTotal
Ver Sync Polarity
                                     // VBlank =
                    = POSITIVE;
                                                      5.0% of VTotal
Hor Total Time
                    = 10.652:
                                      // (usec)
                                                        239 chars =
                                                                       1912 Pixels
Hor Addr Time
                    = 7.799;
                                                                       1400 Pixels
                                      // (usec)
                                                        175 \text{ chars} =
Hor Blank Start
                    = 7.799;
                                      // (usec)
                                                        175 \text{ chars} =
                                                                       1400 Pixels
                                                 =
Hor Blank Time
                    = 2.852;
                                      // (usec)
                                                        64 \text{ chars} =
                                                                        512 Pixels
                                                 =
Hor Sync Start
                    = 8.379;
                                      // (usec)
                                                        188 \text{ chars} =
                                                                       1504 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                                 =
// H Front Porch
                    = 0.579:
                                      // (usec)
                                                 =
                                                         13 chars =
                                                                         104 Pixels
Hor Sync Time
                    = 0.847:
                                      // (usec)
                                                         19
                                                            chars =
                                                                        152 Pixels
// H Back Porch
                    = 1.426;
                                      // (usec)
                                                         32 \text{ chars} =
                                                                        256 Pixels
                                                 =
// H Left Border
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                    = 0.000:
                                      // (usec)
Ver Total Time
                    = 11.770;
                                                      1105 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 11.184:
                                      // (msec)
                                                      1050 lines
                                                                           = 2.38
Ver Blank Start
                    = 11.184;
                                                      1050 lines
                                      // (msec)
Ver Blank Time
                    = 0.586:
                                      // (msec)
                                                         55 lines
                                                 =
Ver Sync Start
                    = 11.216;
                                      // (msec)
                                                 =
                                                      1053 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                          0 lines
// V Front Porch
                    = 0.032;
                                                          3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.043:
                                      // (msec)
                                                          4 lines
                                                 =
// V Back Porch
                    = 0.511:
                                      // (msec)
                                                         48 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

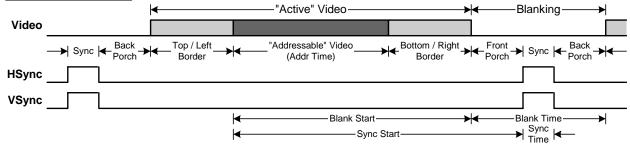
Resolution: 1440 x 900 at 60 Hz (non-interlaced) REDUCED BLANKING

EDID ID: n/a BIOS Modes: n/a

Method: CVT Reduced Blanking

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.30MA-R (1440x900 Reduced Blanking);
Hor Pixels
                    = 1440:
                                      // Pixels
Ver Pixels
                     = 900:
                                      // Lines
Hor Frequency
                     = 55.469;
                                      // KHz
                                                        18.0 usec
                                                                    / line
Ver Frequency
                                                                    / frame
                     = 59.901:
                                      // Hz
                                                        16.7 msec
Pixel Clock
                     = 88.750:
                                                                      +0.5\%
                                      // MHz
                                                  =
                                                        11.3 nsec
Character Width
                                      // Pixels
                     = 8:
                                                       90.1 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          1.0 %
Hor Sync Polarity
                     = POSITIVE;
                                      // HBlank =
                                                     10.0% of HTotal
Ver Sync Polarity
                     = NEGATIVE
                                      // VBlank =
                                                       2.8% of VTotal
Hor Total Time
                     = 18.028;
                                      // (usec)
                                                        200 \text{ chars} =
                                                                        1600 Pixels
Hor Addr Time
                     = 16.225;
                                                                        1440 Pixels
                                      // (usec)
                                                        180 \text{ chars} =
Hor Blank Start
                     = 16.225;
                                      // (usec)
                                                        180
                                                             chars =
                                                                        1440 Pixels
                                                  =
Hor Blank Time
                     = 1.803;
                                      // (usec)
                                                         20 \text{ chars} =
                                                                         160 Pixels
Hor Sync Start
                     = 16.766;
                                      // (usec)
                                                        186 \text{ chars} =
                                                                        1488 Pixels
// H Right Border
                     = 0.000;
                                                             chars =
                                      // (usec)
                                                          0
                                                                            0 Pixels
// H Front Porch
                     = 0.541:
                                      // (usec)
                                                             chars =
                                                                          48 Pixels
                                                  =
                                                          6
Hor Sync Time
                     = 0.361:
                                      // (usec)
                                                  =
                                                             chars =
                                                                          32 Pixels
// H Back Porch
                     = 0.901;
                                      // (usec)
                                                         10 chars =
                                                                          80 Pixels
// H Left Border
                     = 0.000;
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (msec)
Ver Total Time
                     = 16.694;
                                                        926 lines
                                                                      HT - (1.06xHA)
Ver Addr Time
                     = 16.225:
                                      // (msec)
                                                        900 lines
                                                                           = 0.83
Ver Blank Start
                     = 16.225;
                                      // (msec)
                                                        900 lines
                                                  =
Ver Blank Time
                     = 0.469;
                                      // (msec)
                                                         26 lines
                                                  =
Ver Sync Start
                     = 16.279;
                                      // (msec)
                                                  =
                                                        903 lines
// V Bottom Border
                                                          0 lines
                    = 0.000:
                                      // (msec)
// V Front Porch
                     = 0.054;
                                      // (msec)
                                                          3 lines
                                                  =
Ver Sync Time
                                                          6 lines
                     = 0.108:
                                      // (msec)
                                                  =
// V Back Porch
                     = 0.306;
                                      // (msec)
                                                         17 lines
// V Top Border
                     = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

Resolution: 1440 x 900 at 60 Hz (non-interlaced)

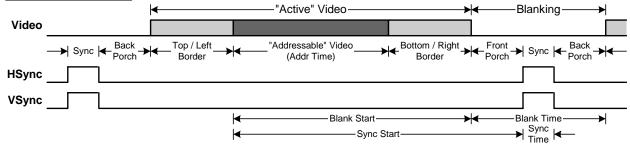
EDID ID: 95h, 00h

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.30MA @ 60Hz (1440x900);
Hor Pixels
                    = 1440:
                                      // Pixels
Ver Pixels
                     = 900:
                                      // Lines
Hor Frequency
                     = 55.935:
                                      // KHz
                                                        17.9 usec
                                                                    / line
Ver Frequency
                     = 59.887;
                                      // Hz
                                                        16.7 msec
                                                                    / frame
Pixel Clock
                     = 106.500:
                                                                      +0.5\%
                                      // MHz
                                                  =
                                                        9.4 nsec
Character Width
                                      // Pixels
                     = 8:
                                                       75.1 nsec
Scan Type
                     = NONINTERLACED;
                                                        // H Phase =
                                                                          4.0 %
                                      // HBlank =
Hor Sync Polarity
                     = NEGATIVE
                                                     24.4% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                       3.6% of VTotal
                                                        238 chars =
Hor Total Time
                     = 17.878;
                                      // (usec)
                                                                        1904 Pixels
Hor Addr Time
                     = 13.521;
                                                                        1440 Pixels
                                      // (usec)
                                                        180 \text{ chars} =
Hor Blank Start
                     = 13.521;
                                      // (usec)
                                                        180
                                                             chars =
                                                                        1440 Pixels
                                                  =
Hor Blank Time
                     = 4.357;
                                      // (usec)
                                                         58 \text{ chars} =
                                                                         464 Pixels
Hor Sync Start
                     = 14.272;
                                      // (usec)
                                                        190 \text{ chars} =
                                                                        1520 Pixels
// H Right Border
                     = 0.000;
                                                             chars =
                                      // (usec)
                                                          0
                                                                           0 Pixels
// H Front Porch
                     = 0.751:
                                      // (usec)
                                                             chars =
                                                                          80 Pixels
                                                  =
                                                         10
Hor Sync Time
                     = 1.427;
                                      // (usec)
                                                  =
                                                         19
                                                             chars =
                                                                         152 Pixels
// H Back Porch
                     = 2.178;
                                      // (usec)
                                                             chars =
                                                                         232 Pixels
// H Left Border
                     = 0.000;
                                      // (usec)
                                                  =
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (msec)
Ver Total Time
                     = 16.698:
                                                        934 lines
                                                                      HT - (1.06xHA)
Ver Addr Time
                                                        900 lines
                     = 16.090:
                                      // (msec)
                                                                           = 3.55
Ver Blank Start
                     = 16.090;
                                      // (msec)
                                                        900 lines
                                                  =
Ver Blank Time
                     = 0.608;
                                      // (msec)
                                                         34 lines
                                                  =
Ver Sync Start
                     = 16.144;
                                      // (msec)
                                                  =
                                                        903 lines
// V Bottom Border = 0.000;
                                                          0 lines
                                      // (msec)
// V Front Porch
                     = 0.054;
                                      // (msec)
                                                          3 lines
                                                  =
Ver Sync Time
                                                          6 lines
                     = 0.107:
                                      // (msec)
                                                  =
// V Back Porch
                     = 0.447:
                                      // (msec)
                                                         25 lines
// V Top Border
                     = 0.000;
                                      // (msec)
                                                          0 lines
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

Resolution: 1440 x 900 at 75 Hz (non-interlaced)

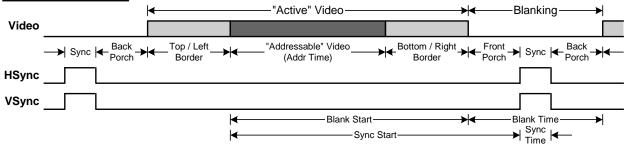
EDID ID: 95h, 0Fh

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.30MA @ 75Hz (1440x900);
Hor Pixels
                    = 1440:
                                      // Pixels
Ver Pixels
                                      // Lines
                    = 900:
Hor Frequency
                    = 70.635;
                                      // KHz
                                                        14.2 usec
                                                                    / line
Ver Frequency
                    = 74.984;
                                                        13.3 msec
                                                                    / frame
                                      // Hz
                                                  =
                    = 136.750;
                                                                      \pm 0.5\%
Pixel Clock
                                      // MHz
                                                         7.3 nsec
Character Width
                                      // Pixels
                                                       58.5 nsec
                    = 8:
Scan Type
                    = NONINTERLACED;
                                                         // H Phase =
                                                                          3.9 %
Hor Sync Polarity
                    = NEGATIVE
                                      // HBlank =
                                                     25.6% of HTotal
Ver Sync Polarity
                    = POSITIVE;
                                      // VBlank =
                                                      4.5% of VTotal
Hor Total Time
                    = 14.157:
                                                        242 chars =
                                      // (usec)
                                                                        1936 Pixels
Hor Addr Time
                    = 10.530;
                                      // (usec)
                                                        180 chars =
                                                                        1440 Pixels
                                                  =
Hor Blank Start
                    = 10.530:
                                      // (usec)
                                                        180 \text{ chars} =
                                                                        1440 Pixels
Hor Blank Time
                    = 3.627:
                                      // (usec)
                                                  =
                                                         62 \text{ chars} =
                                                                         496 Pixels
                                                                        1536 Pixels
Hor Sync Start
                    = 11.232;
                                      // (usec)
                                                        192 \text{ chars} =
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          0 chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.702;
                                      // (usec)
                                                         12 \text{ chars} =
                                                                          96 Pixels
                                                  =
Hor Svnc Time
                    = 1.112:
                                      // (usec)
                                                         19
                                                             chars =
                                                                         152 Pixels
                                                         31 chars =
// H Back Porch
                    = 1.814;
                                      // (usec)
                                                                         248 Pixels
// H Left Border
                                                                           0 Pixels
                    = 0.000;
                                      // (usec)
                                                  =
                                                          \mathbf{0} chars =
                                                        942 lines
Ver Total Time
                    = 13.336;
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 12.741:
                                      // (msec)
                                                        900 lines
                                                                           =3
                                                  =
Ver Blank Start
                    = 12.741;
                                      // (msec)
                                                  =
                                                        900 lines
Ver Blank Time
                    = 0.595:
                                                         42 lines
                                      // (msec)
                                                  =
                                                        903 lines
Ver Sync Start
                    = 12.784;
                                      // (msec)
                                                  =
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                  =
                                                          0 lines
// V Front Porch
                    = 0.042;
                                      // (msec)
                                                  =
                                                          3 lines
Ver Sync Time
                    = 0.085;
                                      // (msec)
                                                          6 lines
// V Back Porch
                                                         33 lines
                    = 0.467;
                                      // (msec)
                                                  =
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
                                                  =
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

Resolution: 1440 x 900 at 85 Hz (non-interlaced)

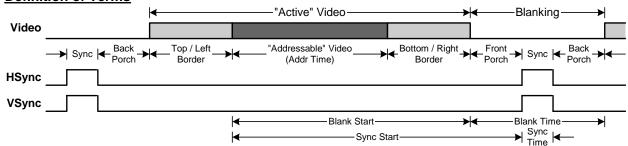
EDID ID: 95h, 19h

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.30MA @ 85Hz (1440x900);
Hor Pixels
                    = 1440:
                                      // Pixels
Ver Pixels
                     = 900:
                                      // Lines
Hor Frequency
                     = 80.430;
                                      // KHz
                                                        12.4 usec
                                                                    / line
Ver Frequency
                     = 84.842;
                                                        11.8 msec
                                                                    / frame
                                      // Hz
                                                  =
Pixel Clock
                     = 157.000:
                                      // MHz
                                                         6.4 nsec
                                                                       \pm 0.5\%
Character Width
                                      // Pixels
                                                        51.0 nsec
                     = 8:
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          3.9 %
Hor Svnc Polarity
                     = NEGATIVE
                                      // HBlank =
                                                      26.2% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                       5.1% of VTotal
Hor Total Time
                     = 12.433:
                                      // (usec)
                                                        244 chars =
                                                                        1952 Pixels
Hor Addr Time
                     = 9.172;
                                      // (usec)
                                                        180 chars =
                                                                        1440 Pixels
                                                  =
Hor Blank Start
                     = 9.172:
                                      // (usec)
                                                        180 \text{ chars} =
                                                                        1440 Pixels
Hor Blank Time
                     = 3.261:
                                      // (usec)
                                                  =
                                                         64 \text{ chars} =
                                                                         512 Pixels
                                                                        1544 Pixels
Hor Sync Start
                     = 9.834;
                                      // (usec)
                                                        193 \text{ chars} =
// H Right Border
                     = 0.000:
                                      // (usec)
                                                          0 chars =
                                                                            0 Pixels
// H Front Porch
                     = 0.662:
                                      // (usec)
                                                         13
                                                             chars =
                                                                         104 Pixels
                                                  =
Hor Svnc Time
                     = 0.968:
                                      // (usec)
                                                         19
                                                             chars =
                                                                         152 Pixels
// H Back Porch
                                      // (usec)
                                                         32 \text{ chars} =
                                                                         256 Pixels
                     = 1.631;
// H Left Border
                                                                            0 Pixels
                     = 0.000;
                                      // (usec)
                                                  =
                                                          \mathbf{0} chars =
                                                        948 lines
Ver Total Time
                     = 11.787:
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                     = 11.190;
                                                                            = 2.71
                                      // (msec)
                                                        900 lines
                                                  =
Ver Blank Start
                     = 11.190;
                                      // (msec)
                                                  =
                                                        900 lines
Ver Blank Time
                     = 0.597;
                                                         48 lines
                                      // (msec)
                                                  =
                                                        903 lines
Ver Sync Start
                     = 11.227;
                                      // (msec)
                                                  =
// V Bottom Border
                    = 0.000;
                                      // (msec)
                                                  =
                                                           0 lines
// V Front Porch
                     = 0.037;
                                      // (msec)
                                                  =
                                                           3 lines
Ver Sync Time
                     = 0.075;
                                      // (msec)
                                                           6 lines
// V Back Porch
                                                         39 lines
                     = 0.485;
                                      // (msec)
// V Top Border
                     = 0.000;
                                      // (msec)
                                                          0 lines
                                                  =
```



Adopted: 12/18/96

Resolution: 1600 x 1200 at 60 Hz (non-interlaced)

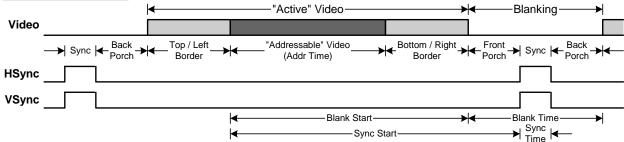
EDID ID: 0A9h, 040h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> Pre-Adjusted Timing Data

```
Timing Name
                    = 1600 \times 1200 @ 60Hz;
Hor Pixels
                                       // Pixels
                    = 1600:
Ver Pixels
                     = 1200;
                                       // Lines
Hor Frequency
                     = 75.000;
                                       // KHz
                                                        13.3 usec
                                                                     / line
Ver Frequency
                                                                     / frame
                     = 60.000;
                                       // Hz
                                                        16.7 msec
                                                  =
Pixel Clock
                     = 162.000:
                                       // MHz
                                                         6.2 nsec
                                                                       \pm 0.5\%
Character Width
                                       // Pixels
                                                        49.4 nsec
                     = 8;
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                           5.6 %
Hor Sync Polarity
                                      // HBlank =
                     = POSITIVE:
                                                      25.9% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                       4.0% of VTotal
Hor Total Time
                     = 13.333:
                                       // (usec)
                                                         270 \text{ chars} =
                                                                         2160 Pixels
Hor Addr Time
                                       // (usec)
                                                         200 \text{ chars} =
                                                                         1600 Pixels
                     = 9.877;
Hor Blank Start
                     = 9.877;
                                       // (usec)
                                                         200 \text{ chars} =
                                                                         1600 Pixels
Hor Blank Time
                     = 3.457;
                                       // (usec)
                                                  =
                                                          70 \text{ chars} =
                                                                          560 Pixels
Hor Sync Start
                     = 10.272;
                                       // (usec)
                                                         208 \text{ chars} =
                                                                         1664 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                           0
                                                              chars =
                                                                            0 Pixels
// H Front Porch
                     = 0.395:
                                       // (usec)
                                                           8
                                                              chars =
                                                                            64 Pixels
                                                  =
Hor Sync Time
                     = 1.185;
                                       // (usec)
                                                          24
                                                              chars =
                                                                           192 Pixels
// H Back Porch
                     = 1.877;
                                       // (usec)
                                                          38
                                                              chars =
                                                                          304 Pixels
                                                  =
// H Left Border
                     = 0.000;
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                       // (usec)
                                                  =
Ver Total Time
                     = 16.667;
                                       // (msec)
                                                        1250 lines
                                                                       HT - (1.06xHA)
Ver Addr Time
                     = 16.000;
                                       // (msec)
                                                        1200 lines
                                                                            = 2.86
                                                  =
Ver Blank Start
                     = 16.000;
                                       // (msec)
                                                  =
                                                        1200 lines
Ver Blank Time
                     = 0.667;
                                       // (msec)
                                                          50 lines
                                                  =
Ver Sync Start
                     = 16.013;
                                       // (msec)
                                                  =
                                                        1201 lines
// V Bottom Border
                     = 0.000;
                                       // (msec)
                                                  =
                                                           0 lines
// V Front Porch
                     = 0.013;
                                       // (msec)
                                                  =
                                                           1 lines
Ver Sync Time
                     = 0.040;
                                       // (msec)
                                                  =
                                                           3 lines
// V Back Porch
                     = 0.613;
                                                          46 lines
                                       // (msec)
                                                  =
// V Top Border
                     = 0.000;
                                       // (msec)
                                                           0 lines
```



Adopted: 12/18/96

Resolution: 1600 x 1200 at 65 Hz (non-interlaced)

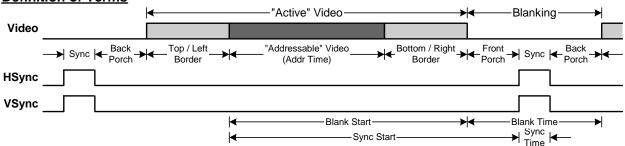
EDID ID: 0A9h, 045h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1600 x 1200 @ 65Hz:
Hor Pixels
                                      // Pixels
                    = 1600:
Ver Pixels
                    = 1200;
                                      // Lines
                    = 81.250;
                                      // KHz
Hor Frequency
                                                        12.3 usec
                                                                    / line
                                                  =
Ver Frequency
                     = 65.000;
                                      // Hz
                                                        15.4 msec
                                                                      frame
Pixel Clock
                     = 175.500;
                                      // MHz
                                                         5.7 nsec
                                                                      \pm 0.5\%
Character Width
                    = 8:
                                      // Pixels
                                                       45.6 nsec
                                                  =
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          5.6 %
Hor Sync Polarity
                                      // HBlank
                                                     25.9% of HTotal
                     = POSITIVE:
                                                       4.0% of VTotal
Ver Sync Polarity
                                      // VBlank
                    = POSITIVE;
Hor Total Time
                    = 12.308:
                                      // (usec)
                                                        270 \text{ chars} =
                                                                        2160 Pixels
Hor Addr Time
                    = 9.117;
                                      // (usec)
                                                        200 \text{ chars} =
                                                                        1600 Pixels
Hor Blank Start
                    = 9.117;
                                      // (usec)
                                                        200
                                                             chars =
                                                                        1600 Pixels
                                                  =
                                                         70
Hor Blank Time
                    = 3.191;
                                      // (usec)
                                                             chars =
                                                                         560 Pixels
Hor Sync Start
                                                             chars =
                                                                        1664 Pixels
                    = 9.481;
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                          0
                                                             chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                     = 0.365;
                                      // (usec)
                                                          8
                                                             chars =
                                                                          64 Pixels
Hor Sync Time
                    = 1.094;
                                      // (usec)
                                                         24
                                                             chars =
                                                                         192 Pixels
                                                  =
// H Back Porch
                    = 1.732;
                                      // (usec)
                                                         38
                                                             chars =
                                                                         304 Pixels
                                                  =
// H Left Border
                    = 0.000;
                                      // (usec)
                                                  =
                                                          0 chars =
                                                                           0 Pixels
                                                                      HT - (1.06xHA)
Ver Total Time
                    = 15.385;
                                      // (msec)
                                                       1250 lines
                                                  =
Ver Addr Time
                                                       1200 lines
                                                                           = 2.64
                    = 14.769;
                                      // (msec)
                                                  =
Ver Blank Start
                    = 14.769:
                                      // (msec)
                                                       1200 lines
                                                  =
Ver Blank Time
                    = 0.615:
                                      // (msec)
                                                         50 lines
Ver Sync Start
                     = 14.782;
                                      // (msec)
                                                       1201 lines
// V Bottom Border
                    = 0.000:
                                                          0 lines
                                      // (msec)
// V Front Porch
                     = 0.012:
                                      // (msec)
                                                  =
                                                          1 lines
Ver Sync Time
                                                          3 lines
                     = 0.037:
                                      // (msec)
                                                  =
// V Back Porch
                    = 0.566;
                                      // (msec)
                                                         46 lines
                                                  =
// V Top Border
                     = 0.000:
                                      // (msec)
                                                          0 lines
```



Adopted: 12/18/96

Resolution: 1600 x 1200 at 70 Hz (non-interlaced)

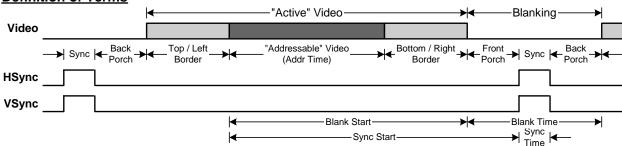
EDID ID: 0A9h, 04Ah

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1600 x 1200 @ 70Hz:
Hor Pixels
                                      // Pixels
                    = 1600:
Ver Pixels
                    = 1200;
                                      // Lines
                    = 87.500;
                                      // KHz
Hor Frequency
                                                        11.4 usec
                                                                    / line
                                                  =
Ver Frequency
                     = 70.000;
                                      // Hz
                                                        14.3 msec
                                                                      frame
Pixel Clock
                     = 189.000;
                                      // MHz
                                                         5.3 nsec
                                                                      \pm 0.5\%
Character Width
                                                       42.3 nsec
                    = 8:
                                      // Pixels
                                                  =
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          5.6 %
Hor Sync Polarity
                                      // HBlank
                                                     25.9% of HTotal
                     = POSITIVE:
                                                       4.0% of VTotal
Ver Sync Polarity
                                      // VBlank
                    = POSITIVE;
Hor Total Time
                    = 11.429:
                                      // (usec)
                                                        270 \text{ chars} =
                                                                        2160 Pixels
Hor Addr Time
                    = 8.466:
                                      // (usec)
                                                        200 \text{ chars} =
                                                                        1600 Pixels
Hor Blank Start
                    = 8.466;
                                      // (usec)
                                                        200
                                                             chars =
                                                                        1600 Pixels
                                                  =
Hor Blank Time
                                                         70
                    = 2.963;
                                      // (usec)
                                                             chars =
                                                                         560 Pixels
Hor Sync Start
                                                             chars =
                                                                        1664 Pixels
                    = 8.804;
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                          0
                                                             chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                     = 0.339;
                                      // (usec)
                                                          8
                                                             chars =
                                                                          64 Pixels
Hor Sync Time
                    = 1.016;
                                      // (usec)
                                                         24
                                                             chars =
                                                                         192 Pixels
                                                  =
// H Back Porch
                    = 1.608;
                                      // (usec)
                                                         38
                                                             chars =
                                                                         304 Pixels
                                                  =
// H Left Border
                    = 0.000;
                                      // (usec)
                                                  =
                                                          0 chars =
                                                                           0 Pixels
                                                                      HT - (1.06xHA)
Ver Total Time
                    = 14.286;
                                      // (msec)
                                                       1250 lines
                                                  =
Ver Addr Time
                    = 13.714;
                                                       1200 lines
                                                                           = 2.46
                                      // (msec)
                                                  =
Ver Blank Start
                    = 13.714:
                                      // (msec)
                                                       1200 lines
                                                  =
Ver Blank Time
                    = 0.571:
                                      // (msec)
                                                         50 lines
Ver Sync Start
                     = 13.726;
                                      // (msec)
                                                       1201 lines
// V Bottom Border
                    = 0.000:
                                                          0 lines
                                      // (msec)
// V Front Porch
                     = 0.011:
                                      // (msec)
                                                  =
                                                          1 lines
Ver Sync Time
                                                          3 lines
                     = 0.034:
                                      // (msec)
                                                  =
// V Back Porch
                    = 0.526;
                                      // (msec)
                                                         46 lines
                                                  =
// V Top Border
                     = 0.000:
                                      // (msec)
                                                          0 lines
```



Adopted: 12/18/96

Resolution: 1600 x 1200 at 75 Hz (non-interlaced)

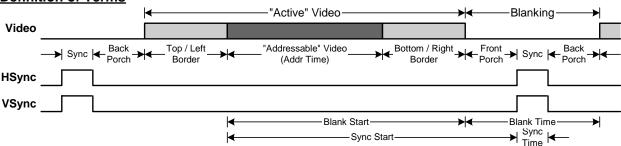
EDID ID: 0A9h, 04Fh

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1600 \times 1200 @ 75Hz:
Hor Pixels
                                      // Pixels
                    = 1600:
Ver Pixels
                    = 1200;
                                      // Lines
                    = 93.750:
                                      // KHz
                                                        10.7 usec
Hor Frequency
                                                                    / line
                                                  =
Ver Frequency
                     = 75.000;
                                      // Hz
                                                        13.3 msec
                                                                      frame
Pixel Clock
                     = 202.500;
                                      // MHz
                                                         4.9 nsec
                                                                       \pm 0.5\%
Character Width
                                                        39.5 nsec
                    = 8:
                                      // Pixels
                                                  =
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          5.6 %
Hor Sync Polarity
                                      // HBlank
                                                     25.9% of HTotal
                     = POSITIVE:
                                                       4.0% of VTotal
Ver Sync Polarity
                                      // VBlank
                    = POSITIVE;
Hor Total Time
                    = 10.667:
                                      // (usec)
                                                        270 \text{ chars} =
                                                                        2160 Pixels
Hor Addr Time
                    = 7.901;
                                      // (usec)
                                                        200 \text{ chars} =
                                                                        1600 Pixels
Hor Blank Start
                    = 7.901;
                                      // (usec)
                                                        200
                                                             chars =
                                                                        1600 Pixels
                                                  =
Hor Blank Time
                                                         70
                    = 2.765;
                                      // (usec)
                                                             chars =
                                                                         560 Pixels
Hor Sync Start
                                                             chars =
                                                                        1664 Pixels
                    = 8.217;
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                           0
                                                             chars =
                                                                            0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                     = 0.316;
                                      // (usec)
                                                          8
                                                             chars =
                                                                           64 Pixels
Hor Sync Time
                    = 0.948;
                                      // (usec)
                                                         24
                                                             chars =
                                                                         192 Pixels
                                                  =
// H Back Porch
                    = 1.501;
                                      // (usec)
                                                         38
                                                             chars =
                                                                         304 Pixels
                                                  =
// H Left Border
                    = 0.000;
                                      // (usec)
                                                  =
                                                           0 chars =
                                                                            0 Pixels
                                                                      HT - (1.06xHA)
Ver Total Time
                    = 13.333;
                                      // (msec)
                                                       1250 lines
                                                  =
Ver Addr Time
                    = 12.800;
                                                       1200 lines
                                                                            = 2.29
                                      // (msec)
                                                  =
Ver Blank Start
                    = 12.800:
                                      // (msec)
                                                       1200 lines
                                                  =
Ver Blank Time
                    = 0.533:
                                      // (msec)
                                                         50 lines
Ver Sync Start
                     = 12.811;
                                      // (msec)
                                                       1201 lines
// V Bottom Border
                    = 0.000:
                                                           0 lines
                                      // (msec)
// V Front Porch
                     = 0.011:
                                      // (msec)
                                                  =
                                                          1 lines
Ver Sync Time
                                                          3 lines
                     = 0.032:
                                      // (msec)
                                                  =
// V Back Porch
                    = 0.491;
                                      // (msec)
                                                         46 lines
                                                  =
// V Top Border
                     = 0.000:
                                      // (msec)
                                                           0 lines
```



Adopted: 12/18/96

Resolution: 1600 x 1200 at 85 Hz (non-interlaced)

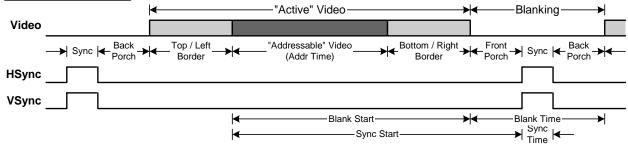
EDID ID: 0A9h, 059h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1600 x 1200 @ 85Hz:
Hor Pixels
                                      // Pixels
                    = 1600:
Ver Pixels
                    = 1200;
                                      // Lines
                    = 106.250:
                                      // KHz
                                                         9.4 usec
Hor Frequency
                                                                    / line
                                                  =
Ver Frequency
                     = 85.000;
                                      // Hz
                                                        11.8 msec
                                                                      frame
Pixel Clock
                     = 229.500;
                                      // MHz
                                                         4.4 nsec
                                                                      \pm 0.5\%
Character Width
                                                       34.9 nsec
                    = 8:
                                      // Pixels
                                                  =
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          5.6 %
Hor Sync Polarity
                                      // HBlank
                                                     25.9% of HTotal
                     = POSITIVE:
                                                       4.0% of VTotal
Ver Sync Polarity
                                      // VBlank
                    = POSITIVE;
Hor Total Time
                    = 9.412:
                                      // (usec)
                                                        270 \text{ chars} =
                                                                        2160 Pixels
Hor Addr Time
                    = 6.972:
                                      // (usec)
                                                        200 \text{ chars} =
                                                                        1600 Pixels
Hor Blank Start
                    = 6.972;
                                      // (usec)
                                                        200
                                                             chars =
                                                                        1600 Pixels
                                                  =
Hor Blank Time
                                                         70
                    = 2.440;
                                      // (usec)
                                                             chars =
                                                                         560 Pixels
Hor Sync Start
                    = 7.251;
                                                             chars =
                                                                        1664 Pixels
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                          0
                                                             chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                    = 0.279;
                                      // (usec)
                                                          8
                                                             chars =
                                                                          64 Pixels
Hor Sync Time
                    = 0.837;
                                      // (usec)
                                                         24
                                                             chars =
                                                                         192 Pixels
                                                  =
// H Back Porch
                    = 1.325;
                                      // (usec)
                                                         38
                                                             chars =
                                                                         304 Pixels
                                                  =
// H Left Border
                    = 0.000;
                                      // (usec)
                                                  =
                                                          0 chars =
                                                                           0 Pixels
                                                                      HT - (1.06xHA)
Ver Total Time
                    = 11.765:
                                      // (msec)
                                                       1250 lines
                                                  =
Ver Addr Time
                    = 11.294;
                                                       1200 lines
                                                                           = 2.02
                                      // (msec)
                                                  =
Ver Blank Start
                    = 11.294:
                                      // (msec)
                                                       1200 lines
                                                  =
Ver Blank Time
                    = 0.471:
                                      // (msec)
                                                  =
                                                         50 lines
Ver Sync Start
                     = 11.304;
                                      // (msec)
                                                       1201 lines
// V Bottom Border
                    = 0.000:
                                                          0 lines
                                      // (msec)
// V Front Porch
                     = 0.009:
                                      // (msec)
                                                  =
                                                          1 lines
Ver Sync Time
                                                          3 lines
                     = 0.028:
                                      // (msec)
                                                  =
// V Back Porch
                    = 0.433;
                                      // (msec)
                                                         46 lines
                                                  =
// V Top Border
                     = 0.000:
                                      // (msec)
                                                          0 lines
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

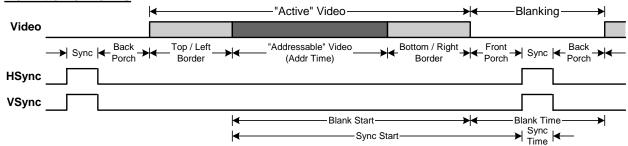
Resolution: 1680 x 1050 at 60 Hz (non-interlaced) REDUCED BLANKING

EDID ID: n/a BIOS Modes: n/a

Method: CVT Reduced Blanking

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.76MA-R (1680x1050 Reduced Blanking);
Hor Pixels
                    = 1680:
                                      // Pixels
Ver Pixels
                     = 1050:
                                      // Lines
                                       // KHz
Hor Frequency
                     = 64.674;
                                                        15.5 usec
                                                                    / line
Ver Frequency
                     = 59.883;
                                                        16.7 msec
                                                                    / frame
                                      // Hz
                                                  =
                     = 119.000:
                                                                       \pm 0.5\%
Pixel Clock
                                      // MHz
                                                         8.4 nsec
Character Width
                     = 8;
                                      // Pixels
                                                        67.2 nsec
                     = NONINTERLACED;
Scan Type
                                                         // H Phase =
                                                                          0.9 %
Hor Sync Polarity
                                      // HBlank
                     = POSITIVE:
                                                       8.7% of HTotal
Ver Sync Polarity
                     = NEGATIVE
                                      // VBlank =
                                                       2.8% of VTotal
Hor Total Time
                     = 15.462;
                                      // (usec)
                                                        230 \text{ chars} =
                                                                         1840 Pixels
Hor Addr Time
                     = 14.118;
                                      // (usec)
                                                        210 \text{ chars} =
                                                                         1680 Pixels
Hor Blank Start
                     = 14.118:
                                      // (usec)
                                                        210 \text{ chars} =
                                                                         1680 Pixels
Hor Blank Time
                     = 1.345;
                                      // (usec)
                                                  =
                                                         20 \text{ chars} =
                                                                          160 Pixels
Hor Sync Start
                     = 14.521;
                                      // (usec)
                                                        216 \text{ chars} =
                                                                         1728 Pixels
// H Right Border
                     = 0.000:
                                      // (usec)
                                                              chars =
                                                                            0 Pixels
                                                  =
// H Front Porch
                     = 0.403:
                                      // (usec)
                                                              chars =
                                                                           48 Pixels
Hor Sync Time
                     = 0.269:
                                      // (usec)
                                                  =
                                                           4
                                                              chars =
                                                                           32 Pixels
// H Back Porch
                     = 0.672;
                                      // (usec)
                                                                           80 Pixels
                                                  =
                                                         10
                                                             chars =
// H Left Border
                                                                            0 Pixels
                     = 0.000:
                                      // (usec)
                                                  =
                                                           \mathbf{0} chars =
                                                       1080 lines
Ver Total Time
                     = 16.699:
                                      // (msec)
                                                                       HT - (1.06xHA)
Ver Addr Time
                     = 16.235:
                                                       1050 lines
                                      // (msec)
                                                                            = 0.5
Ver Blank Start
                     = 16.235:
                                      // (msec)
                                                       1050 lines
                                                  =
Ver Blank Time
                     = 0.464:
                                                          30 lines
                                      // (msec)
                                                       1053 lines
Ver Sync Start
                     = 16.282:
                                      // (msec)
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                  =
                                                           0 lines
// V Front Porch
                     = 0.046;
                                      // (msec)
                                                           3 lines
Ver Sync Time
                     = 0.093;
                                      // (msec)
                                                           6 lines
                                                  =
// V Back Porch
                     = 0.325;
                                      // (msec)
                                                         21 lines
                                                  =
// V Top Border
                     = 0.000;
                                       // (msec)
                                                           0 lines
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

Resolution: 1680 x 1050 at 60 Hz (non-interlaced)

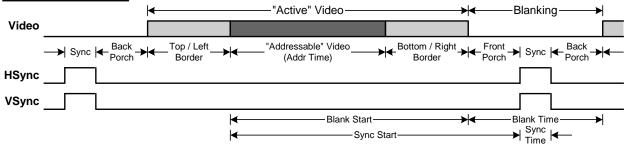
EDID ID: B3h, 00h

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.76MA @ 60Hz (1680x1050);
Hor Pixels
                    = 1680:
                                      // Pixels
Ver Pixels
                    = 1050:
                                      // Lines
Hor Frequency
                    = 65.290;
                                      // KHz
                                                       15.3 usec
                                                                    / line
Ver Frequency
                    = 59.954;
                                                       16.7 msec
                                                                    / frame
                                      // Hz
                                                  =
Pixel Clock
                    = 146,250:
                                      // MHz
                                                        6.8 nsec
                                                                      \pm 0.5\%
Character Width
                                      // Pixels
                                                       54.7 nsec
                    = 8:
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         3.9 %
Hor Svnc Polarity
                    = NEGATIVE
                                     // HBlank =
                                                     25.0% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                       3.6% of VTotal
Hor Total Time
                    = 15.316;
                                                        280 chars =
                                      // (usec)
                                                                        2240 Pixels
Hor Addr Time
                    = 11.487;
                                      // (usec)
                                                        210 \text{ chars} =
                                                                        1680 Pixels
                                                  =
Hor Blank Start
                    = 11.487:
                                      // (usec)
                                                        210 \text{ chars} =
                                                                        1680 Pixels
Hor Blank Time
                    = 3.829;
                                      // (usec)
                                                  =
                                                         70 \text{ chars} =
                                                                         560 Pixels
                                                                        1784 Pixels
Hor Sync Start
                    = 12.198;
                                      // (usec)
                                                        223 chars =
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          0
                                                            chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.711:
                                      // (usec)
                                                         13
                                                             chars =
                                                                         104 Pixels
                                                  =
Hor Svnc Time
                    = 1.203:
                                      // (usec)
                                                         22
                                                             chars =
                                                                         176 Pixels
// H Back Porch
                    = 1.915;
                                      // (usec)
                                                         35
                                                            chars =
                                                                         280 Pixels
// H Left Border
                                                                           0 Pixels
                    = 0.000;
                                      // (usec)
                                                          \mathbf{0} chars =
Ver Total Time
                    = 16.679:
                                                       1089 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 16.082:
                                                       1050 lines
                                                                           = 3.14
                                      // (msec)
                                                  =
Ver Blank Start
                    = 16.082;
                                      // (msec)
                                                  =
                                                       1050 lines
Ver Blank Time
                    = 0.597;
                                                         39 lines
                                      // (msec)
                                                  =
                                                       1053 lines
Ver Sync Start
                    = 16.128;
                                      // (msec)
                                                  =
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                  =
                                                          0 lines
// V Front Porch
                    = 0.046;
                                      // (msec)
                                                  =
                                                          3 lines
Ver Sync Time
                    = 0.092;
                                      // (msec)
                                                          6 lines
// V Back Porch
                                                         30 lines
                     = 0.459;
                                      // (msec)
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
                                                  =
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

Resolution: 1680 x 1050 at 75 Hz (non-interlaced)

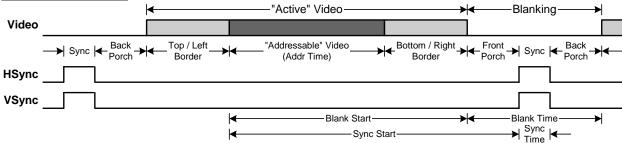
EDID ID: B3h, 0Fh

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.76MA @ 75Hz (1680x1050);
Hor Pixels
                    = 1680:
                                      // Pixels
Ver Pixels
                    = 1050:
                                      // Lines
                    = 82.306;
Hor Frequency
                                      // KHz
                                                       12.1 usec
                                                                    / line
Ver Frequency
                    = 74.892;
                                                       13.4 msec
                                                                    / frame
                                      // Hz
                                                  =
Pixel Clock
                    = 187.000:
                                      // MHz
                                                        5.3 nsec
                                                                      \pm 0.5\%
Character Width
                                      // Pixels
                                                       42.8 nsec
                    = 8:
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         3.9 %
Hor Svnc Polarity
                    = NEGATIVE
                                      // HBlank =
                                                     26.1% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                      4.5% of VTotal
Hor Total Time
                    = 12.150;
                                                        284 chars =
                                      // (usec)
                                                                        2272 Pixels
Hor Addr Time
                    = 8.984;
                                      // (usec)
                                                        210 \text{ chars} =
                                                                        1680 Pixels
                                                                        1680 Pixels
Hor Blank Start
                    = 8.984:
                                      // (usec)
                                                        210 \text{ chars} =
Hor Blank Time
                    = 3.166:
                                      // (usec)
                                                  =
                                                         74 \text{ chars} =
                                                                         592 Pixels
                                                                        1800 Pixels
Hor Sync Start
                    = 9.626;
                                      // (usec)
                                                        225 chars =
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.642:
                                      // (usec)
                                                         15
                                                             chars =
                                                                         120 Pixels
                                                  =
Hor Svnc Time
                    = 0.941:
                                      // (usec)
                                                         22
                                                             chars =
                                                                         176 Pixels
// H Back Porch
                    = 1.583;
                                      // (usec)
                                                         37
                                                             chars =
                                                                         296 Pixels
// H Left Border
                                                                           0 Pixels
                    = 0.000;
                                      // (usec)
                                                          \mathbf{0} chars =
Ver Total Time
                    = 13.353:
                                                       1099 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                                                       1050 lines
                                                                           = 2.63
                    = 12.757:
                                      // (msec)
                                                  =
Ver Blank Start
                    = 12.757;
                                      // (msec)
                                                  =
                                                       1050 lines
Ver Blank Time
                    = 0.595:
                                                         49 lines
                                      // (msec)
                                                  =
Ver Sync Start
                    = 12.794;
                                      // (msec)
                                                  =
                                                       1053 lines
// V Bottom Border
                    = 0.000;
                                      // (msec)
                                                  =
                                                          0 lines
// V Front Porch
                    = 0.036;
                                      // (msec)
                                                  =
                                                          3 lines
Ver Sync Time
                    = 0.073;
                                      // (msec)
                                                          6 lines
// V Back Porch
                                                         40 lines
                     = 0.486;
                                      // (msec)
                                                  =
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
                                                  =
```



Proposed: 5/10/04

Adopted: *** Date will be set to Doc Date once doc is approved ***

Resolution: 1680 x 1050 at 85 Hz (non-interlaced)

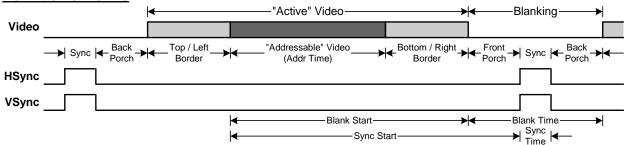
EDID ID: B3h, 19h

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1.76MA @ 85Hz (1680x1050);
Hor Pixels
                    = 1680:
                                      // Pixels
Ver Pixels
                     = 1050:
                                      // Lines
                     = 93.859;
Hor Frequency
                                      // KHz
                                                        10.7 usec
                                                                    / line
Ver Frequency
                     = 84.941;
                                                        11.8 msec
                                                                    / frame
                                      // Hz
                                                  =
Pixel Clock
                     = 214,750:
                                      // MHz
                                                         4.7 nsec
                                                                       \pm 0.5\%
Character Width
                                      // Pixels
                                                        37.3 nsec
                     = 8:
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          3.8 %
Hor Svnc Polarity
                     = NEGATIVE
                                      // HBlank =
                                                      26.6% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                       5.0% of VTotal
Hor Total Time
                     = 10.654:
                                                        286 chars =
                                                                        2288 Pixels
                                      // (usec)
Hor Addr Time
                     = 7.823;
                                      // (usec)
                                                        210 \text{ chars} =
                                                                        1680 Pixels
                                                  =
Hor Blank Start
                     = 7.823:
                                      // (usec)
                                                        210 \text{ chars} =
                                                                        1680 Pixels
Hor Blank Time
                     = 2.831:
                                      // (usec)
                                                  =
                                                         76 \text{ chars} =
                                                                         608 Pixels
                                                                        1808 Pixels
Hor Sync Start
                     = 8.419;
                                      // (usec)
                                                        226 \text{ chars} =
// H Right Border
                     = 0.000:
                                      // (usec)
                                                          0
                                                             chars =
                                                                            0 Pixels
// H Front Porch
                     = 0.596;
                                      // (usec)
                                                         16
                                                             chars =
                                                                         128 Pixels
                                                  =
Hor Svnc Time
                     = 0.820:
                                      // (usec)
                                                         22
                                                             chars =
                                                                         176 Pixels
// H Back Porch
                     = 1.416;
                                      // (usec)
                                                             chars =
                                                                         304 Pixels
// H Left Border
                                                                            0 Pixels
                     = 0.000;
                                      // (usec)
                                                          \mathbf{0} chars =
Ver Total Time
                     = 11.773;
                                                       1105 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                                                                            = 2.36
                     = 11.187:
                                      // (msec)
                                                       1050 lines
                                                  =
Ver Blank Start
                     = 11.187;
                                      // (msec)
                                                  =
                                                       1050 lines
Ver Blank Time
                     = 0.586;
                                                         55 lines
                                      // (msec)
                                                  =
                                                       1053 lines
Ver Sync Start
                     = 11.219;
                                      // (msec)
                                                  =
// V Bottom Border
                    = 0.000;
                                      // (msec)
                                                  =
                                                           0 lines
// V Front Porch
                     = 0.032;
                                      // (msec)
                                                  =
                                                           3 lines
Ver Sync Time
                     = 0.064;
                                      // (msec)
                                                           6 lines
// V Back Porch
                                                         46 lines
                     = 0.490;
                                      // (msec)
                                                  =
// V Top Border
                     = 0.000;
                                      // (msec)
                                                          0 lines
                                                  =
```



Adopted: 9/17/98

Resolution: 1792 x 1344 at 60 Hz (non-interlaced)

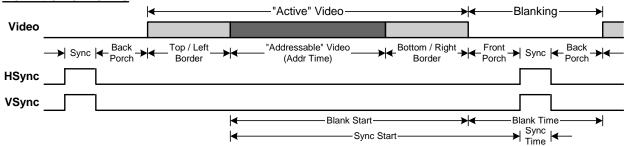
EDID ID: 0C1h, 040h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1792x1344 @ 60 Hz
Hor Pixels
                    = 1792:
                                      // Pixels
Ver Pixels
                    = 1344;
                                      // Lines
Hor Frequency
                    = 83.640;
                                      // KHz
                                                                   / line
                                                       12.0 usec
                                                 =
Ver Frequency
                    = 60.000;
                                                       16.7 msec
                                      // Hz
                                                                     frame
Pixel Clock
                                                        4.9 nsec
                    = 204.750;
                                      // MHz
                                                                      \pm 0.5\%
                                                 =
Character Width
                    = 8;
                                      // Pixels
                                                 =
                                                       39.1 nsec
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         4.1 %
Hor Sync Polarity
                    = NEGATIVE; // HBlank =
                                                     26.8% of HTotal
Ver Sync Polarity
                    = POSITIVE;
                                      // VBlank
                                                      3.6% of VTotal
Hor Total Time
                    = 11.956;
                                      // (usec)
                                                        306 chars =
                                                                       2448 Pixels
Hor Addr Time
                    = 8.752;
                                      // (usec)
                                                        224
                                                             chars =
                                                                       1792 Pixels
                                                 =
Hor Blank Start
                    = 8.752:
                                      // (usec)
                                                        224
                                                             chars =
                                                                       1792 Pixels
Hor Blank Time
                                                        82 \text{ chars} =
                    = 3.204;
                                      // (usec)
                                                                        656 Pixels
Hor Sync Start
                                                       240 chars =
                                                                       1920 Pixels
                    = 9.377;
                                      // (usec)
// H Right Border
                    = 0.000;
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.625:
                                                             chars =
                                                                        128 Pixels
                                      // (usec)
                                                         16
                                                 =
Hor Sync Time
                    = 0.977;
                                      // (usec)
                                                         25
                                                             chars =
                                                                        200 Pixels
// H Back Porch
                    = 1.602;
                                                                        328 Pixels
                                      // (usec)
                                                         41
                                                            chars =
                                                 =
// H Left Border
                    = 0.000;
                                                                           0 Pixels
                                      // (usec)
                                                 =
                                                          0
                                                            chars =
Ver Total Time
                    = 16.667;
                                      // (msec)
                                                      1394 lines
                                                                      HT - (1.06xHA)
                                                 =
                    = 16.069;
Ver Addr Time
                                      // (msec)
                                                      1344 lines
                                                                           = 2.68
Ver Blank Start
                    = 16.069;
                                      // (msec)
                                                 =
                                                      1344 lines
Ver Blank Time
                    = 0.598;
                                      // (msec)
                                                         50 lines
                                                      1345 lines
Ver Sync Start
                    = 16.081;
                                      // (msec)
                                                 =
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                          0 lines
                                                 =
// V Front Porch
                    = 0.012;
                                      // (msec)
                                                          1 lines
Ver Svnc Time
                    = 0.036;
                                      // (msec)
                                                          3 lines
// V Back Porch
                    = 0.550;
                                                         46 lines
                                      // (msec)
                                                 =
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Adopted: 9/17/98

Resolution: 1792 x 1344 at 75 Hz (non-interlaced)

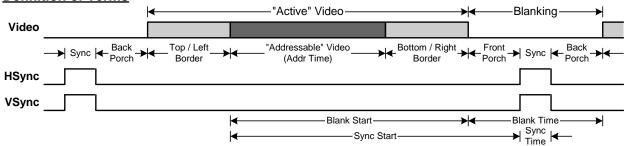
EDID ID: 0C1h, 04Fh

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1792x1344 @ 75 Hz;
Hor Pixels
                      1792:
                                      // Pixels
Ver Pixels
                                      // Lines
                    = 1344;
Hor Frequency
                    = 106.270:
                                      // KHz
                                                        9.4 usec
                                                                    / line
                                                 =
Ver Frequency
                    = 74.997;
                                      // Hz
                                                        13.3 msec
                                                                      frame
Pixel Clock
                                      // MHz
                                                        3.8 nsec
                                                                      \pm 0.5\%
                    = 261.000:
Character Width
                    = 8:
                                      // Pixels
                                                 =
                                                       30.7 nsec
Scan Type
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         5.2 %
Hor Sync Polarity
                    = NEGATIVE; // HBlank =
                                                     27.0% of HTotal
Ver Sync Polarity
                                      // VBlank
                                                       5.2% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 9.410:
                                      // (usec)
                                                        307 \text{ chars} =
                                                                        2456 Pixels
Hor Addr Time
                    = 6.866:
                                      // (usec)
                                                        224
                                                             chars =
                                                                        1792 Pixels
Hor Blank Start
                    = 6.866;
                                      // (usec)
                                                        224 chars =
                                                                        1792 Pixels
                                                 =
Hor Blank Time
                    = 2.544:
                                      // (usec)
                                                         83
                                                             chars =
                                                                         664 Pixels
                                                 =
Hor Sync Start
                    = 7.234:
                                      // (usec)
                                                 =
                                                        236 \text{ chars} =
                                                                        1888 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                 =
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.368:
                                      // (usec)
                                                         12
                                                             chars =
                                                                          96 Pixels
                                                 =
Hor Svnc Time
                    = 0.828:
                                      // (usec)
                                                             chars =
                                                                         216 Pixels
                                                 =
// H Back Porch
                    = 1.349;
                                      // (usec)
                                                 =
                                                         44
                                                             chars =
                                                                         352 Pixels
// H Left Border
                    = 0.000;
                                      // (usec)
                                                             chars =
                                                                           0 Pixels
                                                          0
                                                 =
                                                                      HT - (1.06xHA)
Ver Total Time
                    = 13.334;
                                      // (msec)
                                                       1417 lines
Ver Addr Time
                    = 12.647:
                                      // (msec)
                                                       1344 lines
                                                                           = 2.13
                                                 =
Ver Blank Start
                    = 12.647;
                                      // (msec)
                                                       1344 lines
                                                 =
Ver Blank Time
                    = 0.687;
                                      // (msec)
                                                 =
                                                         73 lines
Ver Sync Start
                    = 12.656;
                                      // (msec)
                                                       1345 lines
// V Bottom Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.009:
                                      // (msec)
                                                          1 lines
                                                 =
Ver Sync Time
                    = 0.028:
                                      // (msec)
                                                 =
                                                          3 lines
// V Back Porch
                                                         69 lines
                    = 0.649;
                                      // (msec)
// V Top Border
                    = 0.000:
                                      // (msec)
                                                          0 lines
```



Adopted: 9/17/98

Resolution: 1856 x 1392 at 60 Hz (non-interlaced)

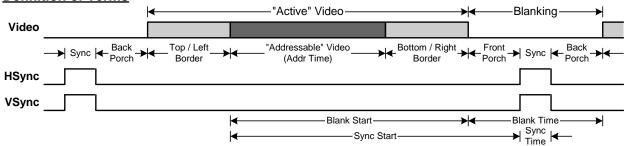
EDID ID: 0C9h, 040h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1856 \times 1392 \text{ at } 60 \text{ Hz};
Hor Pixels
                       1856:
                                       // Pixels
Ver Pixels
                     = 1392;
                                       // Lines
Hor Frequency
                     = 86.333:
                                       // KHz
                                                         11.6 usec
                                                                     / line
                                                   =
Ver Frequency
                     = 59.995:
                                       // Hz
                                                         16.7 msec
                                                                       frame
Pixel Clock
                                       // MHz
                                                          4.6 nsec
                                                                        \pm 0.5\%
                     = 218.250:
Character Width
                     = 8:
                                       // Pixels
                                                   =
                                                        36.7 nsec
Scan Type
                     = NONINTERLACED;
                                                          // H Phase =
                                                                           5.1 %
Hor Sync Polarity
                     = NEGATIVE; // HBlank =
                                                      26.6% of HTotal
Ver Sync Polarity
                                       // VBlank
                                                        3.3% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 11.583:
                                       // (usec)
                                                         316 \text{ chars} =
                                                                         2528 Pixels
Hor Addr Time
                     = 8.504:
                                       // (usec)
                                                         232 \text{ chars} =
                                                                         1856 Pixels
Hor Blank Start
                     = 8.504;
                                       // (usec)
                                                         232 chars =
                                                                         1856 Pixels
                                                   =
Hor Blank Time
                     = 3.079;
                                       // (usec)
                                                          84 chars =
                                                                          672 Pixels
                                                   =
Hor Sync Start
                     = 8.944;
                                       // (usec)
                                                   =
                                                         244 chars =
                                                                         1952 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                   =
                                                           \mathbf{0} chars =
                                                                             0 Pixels
// H Front Porch
                     = 0.440:
                                       // (usec)
                                                          12
                                                              chars =
                                                                            96 Pixels
                                                   =
Hor Svnc Time
                     = 1.026:
                                       // (usec)
                                                          28
                                                              chars =
                                                                          224 Pixels
                                                   =
// H Back Porch
                     = 1.613;
                                       // (usec)
                                                   =
                                                          44
                                                              chars =
                                                                          352 Pixels
// H Left Border
                     = 0.000;
                                       // (usec)
                                                              chars =
                                                                             0 Pixels
                                                           0
                                                   =
Ver Total Time
                     = 16.668;
                                       // (msec)
                                                        1439 lines
                                                                        HT - (1.06xHA)
Ver Addr Time
                     = 16.124;
                                       // (msec)
                                                        1392 lines
                                                                             = 2.57
                                                   =
Ver Blank Start
                     = 16.124;
                                       // (msec)
                                                        1392 lines
                                                   =
Ver Blank Time
                     = 0.544;
                                       // (msec)
                                                   =
                                                          47 lines
Ver Sync Start
                     = 16.135;
                                       // (msec)
                                                        1393 lines
// V Bottom Border
                     = 0.000;
                                                           0 lines
                                       // (msec)
                                                   =
// V Front Porch
                     = 0.012:
                                       // (msec)
                                                           1 lines
                                                   =
Ver Sync Time
                     = 0.035:
                                       // (msec)
                                                   =
                                                           3 lines
// V Back Porch
                                                          43 lines
                     = 0.498;
                                       // (msec)
// V Top Border
                     = 0.000:
                                       // (msec)
                                                           0 lines
```



Adopted: 9/17/98

Resolution: 1856 x 1392 at 75 Hz (non-interlaced)

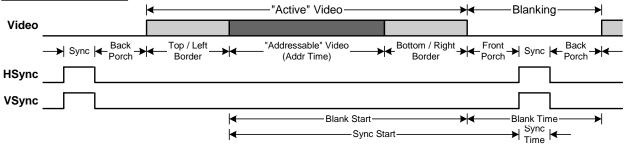
EDID ID: 0C9h, 04Fh

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1856 \times 1392 @ 75 Hz;
                                      // Pixels
Hor Pixels
                    = 1856:
Ver Pixels
                    = 1392;
                                      // Lines
                    = 112.500;
                                      // KHz
                                                                    / line
Hor Frequency
                                                        8.9 usec
Ver Frequency
                    = 75.000;
                                                        13.3 msec
                                      // Hz
                                                                      frame
                                                  =
                    = 288.000:
Pixel Clock
                                      // MHz
                                                        3.5 nsec
                                                                      \pm 0.5\%
                                                  =
Character Width
                    = 8;
                                      // Pixels
                                                  =
                                                       27.8 nsec
Scan Type
                                                        // H Phase =
                     = NONINTERLACED;
                                                                         4.4 %
                     = NEGATIVE: // HBlank =
Hor Sync Polarity
                                                     27.5% of HTotal
Ver Sync Polarity
                    = POSITIVE;
                                      // VBlank
                                                       7.2% of VTotal
Hor Total Time
                    = 8.889:
                                      // (usec)
                                                        320 \text{ chars} =
                                                                        2560 Pixels
Hor Addr Time
                    = 6.444:
                                      // (usec)
                                                        232 chars =
                                                                        1856 Pixels
Hor Blank Start
                                                        232
                    = 6.444:
                                      // (usec)
                                                             chars =
                                                                        1856 Pixels
Hor Blank Time
                    = 2.444:
                                      // (usec)
                                                         88
                                                             chars =
                                                                         704 Pixels
Hor Sync Start
                    = 6.889;
                                      // (usec)
                                                  =
                                                        248 chars =
                                                                        1984 Pixels
// H Right Border
                     = 0.000;
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                    = 0.444;
                                      // (usec)
                                                             chars =
                                                                         128 Pixels
                                                         16
                                                  =
Hor Sync Time
                                                                         224 Pixels
                    = 0.778;
                                      // (usec)
                                                  =
                                                         28
                                                             chars =
// H Back Porch
                    = 1.222;
                                      // (usec)
                                                         44
                                                             chars =
                                                                         352 Pixels
                                                  =
// H Left Border
                                                             chars =
                                                                           0 Pixels
                    = 0.000;
                                      // (usec)
                                                          0
Ver Total Time
                    = 13.333;
                                      // (msec)
                                                  =
                                                       1500 lines
                                                                      HT - (1.06xHA)
Ver Addr Time
                    = 12.373:
                                      // (msec)
                                                       1392 lines
                                                                           = 2.06
                                                  =
                                      // (msec)
Ver Blank Start
                    = 12.373;
                                                  =
                                                       1392 lines
Ver Blank Time
                    = 0.960;
                                      // (msec)
                                                        108 lines
Ver Sync Start
                    = 12.382;
                                                       1393 lines
                                      // (msec)
// V Bottom Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
                                                  =
// V Front Porch
                    = 0.009;
                                      // (msec)
                                                  =
                                                          1 lines
Ver Sync Time
                    = 0.027;
                                      // (msec)
                                                          3 lines
                                                  =
// V Back Porch
                    = 0.924;
                                                        104 lines
                                      // (msec)
                                                  =
// V Top Border
                     = 0.000:
                                                          0 lines
                                      // (msec)
```



Proposed: 3/4/03 Adopted: 8/21/03

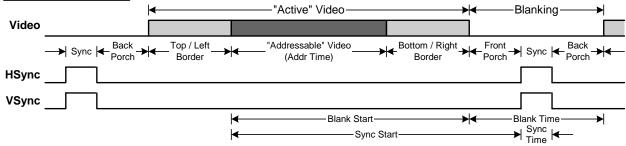
Resolution: 1920 x 1200 at 60 Hz (non-interlaced) REDUCED BLANKING

EDID ID: n/a BIOS Modes: n/a

Method: CVT Reduced Blanking

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 2.30MA-R (1920x1200 Reduced Blanking);
Hor Pixels
                                      // Pixels
                    = 1920:
Ver Pixels
                                      // Lines
                    = 1200:
Hor Frequency
                    = 74.038;
                                      // KHz
                                                       13.5 usec
                                                                   / line
Ver Frequency
                    = 59.950;
                                      // Hz
                                                       16.7 msec
                                                                   / frame
                    = 154.000:
Pixel Clock
                                      // MHz
                                                 =
                                                        6.5 nsec
                                                                     +0.5\%
Character Width
                                      // Pixels
                                                      51.9 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                        0.8 %
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                      7.7% of HTotal
Ver Sync Polarity
                    = NEGATIVE // VBlank =
                                                      2.8% of VTotal
Hor Total Time
                    = 13.506:
                                      // (usec)
                                                       260 chars =
                                                                       2080 Pixels
Hor Addr Time
                    = 12.468:
                                                       240 chars =
                                                                       1920 Pixels
                                      // (usec)
Hor Blank Start
                    = 12.468:
                                      // (usec)
                                                       240 \text{ chars} =
                                                                       1920 Pixels
Hor Blank Time
                    = 1.039;
                                      // (usec)
                                                        20 \text{ chars} =
                                                                        160 Pixels
                                                 =
Hor Sync Start
                    = 12.779;
                                      // (usec)
                                                       246 \text{ chars} =
                                                                       1968 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                          0 Pixels
// H Front Porch
                    = 0.312:
                                      // (usec)
                                                 =
                                                          6 \text{ chars} =
                                                                         48 Pixels
Hor Sync Time
                    = 0.208:
                                      // (usec)
                                                            chars =
                                                                         32 Pixels
// H Back Porch
                    = 0.519;
                                      // (usec)
                                                        10 chars =
                                                                         80 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                          0 Pixels
                                      // (usec)
                    = 16.681;
Ver Total Time
                                                      1235 lines
                                                                     HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 16.208:
                                      // (msec)
                                                      1200 lines
                                                                          = 0.29
Ver Blank Start
                    = 16.208;
                                                      1200 lines
                                      // (msec)
Ver Blank Time
                    = 0.473:
                                      // (msec)
                                                         35 lines
                                                 =
Ver Sync Start
                    = 16.248;
                                      // (msec)
                                                 =
                                                      1203 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                         0 lines
// V Front Porch
                    = 0.041;
                                                          3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.081;
                                      // (msec)
                                                          6 lines
                                                 =
// V Back Porch
                    = 0.351:
                                      // (msec)
                                                        26 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                         0 lines
```



Proposed: 3/4/03 Adopted: 8/21/03

Resolution: 1920 x 1200 at 60 Hz (non-interlaced)

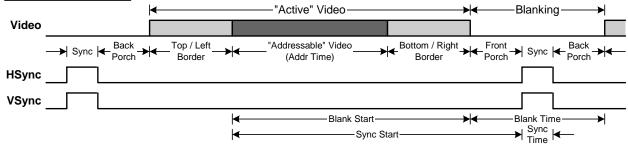
EDID ID: D1h, 00h

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 2.30MA @ 60Hz (1920x1200);
Hor Pixels
                                      // Pixels
                    = 1920:
Ver Pixels
                                     // Lines
                    = 1200:
Hor Frequency
                    = 74.556;
                                      // KHz
                                                      13.4 usec
                                                                   / line
                    = 59.885;
Ver Frequency
                                      // Hz
                                                      16.7 msec
                                                                  / frame
Pixel Clock
                    = 193.250:
                                      // MHz
                                                 =
                                                       5.2 nsec
                                                                     +0.5\%
Character Width
                                      // Pixels
                                                      41.4 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                        3.9 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                    25.9% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                     3.6% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 13.413:
                                      // (usec)
                                                       324 chars =
                                                                      2592 Pixels
Hor Addr Time
                                                       240 chars =
                                                                      1920 Pixels
                    = 9.935:
                                      // (usec)
Hor Blank Start
                    = 9.935;
                                      // (usec)
                                                       240 \text{ chars} =
                                                                      1920 Pixels
Hor Blank Time
                                      // (usec)
                                                        84 \text{ chars} =
                                                                        672 Pixels
                    = 3.477;
                                                 =
Hor Sync Start
                    = 10.639;
                                      // (usec)
                                                       257 \text{ chars} =
                                                                      2056 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                                 =
// H Front Porch
                    = 0.704;
                                      // (usec)
                                                 =
                                                        17 chars =
                                                                        136 Pixels
Hor Sync Time
                    = 1.035;
                                      // (usec)
                                                        25
                                                           chars =
                                                                        200 Pixels
                                                 =
// H Back Porch
                    = 1.739;
                                      // (usec)
                                                        42 chars =
                                                                        336 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                      // (usec)
Ver Total Time
                    = 16.699:
                                                      1245 lines
                                                                     HT - (1.06xHA)
                                      // (msec)
                                                                          = 2.88
Ver Addr Time
                    = 16.095:
                                      // (msec)
                                                      1200 lines
Ver Blank Start
                                                      1200 lines
                    = 16.095;
                                      // (msec)
Ver Blank Time
                    = 0.604:
                                      // (msec)
                                                        45 lines
                                                 =
Ver Sync Start
                    = 16.135;
                                      // (msec)
                                                 =
                                                      1203 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                         0 lines
// V Front Porch
                    = 0.040;
                                                         3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.080;
                                      // (msec)
                                                         6 lines
                                                 =
// V Back Porch
                    = 0.483;
                                      // (msec)
                                                        36 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                         0 lines
```



Proposed: 3/4/03 Adopted: 8/21/03

Resolution: 1920 x 1200 at 75 Hz (non-interlaced)

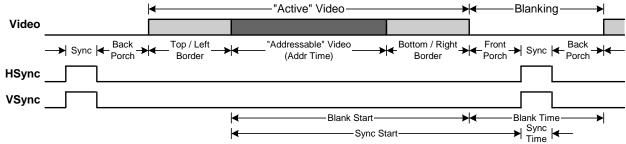
EDID ID: D1h, 0Fh

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 2.30MA @ 75Hz (1920x1200);
Hor Pixels
                                     // Pixels
                    = 1920:
Ver Pixels
                                     // Lines
                    = 1200:
Hor Frequency
                    = 94.038;
                                     // KHz
                                                      10.6 usec
                                                                  / line
Ver Frequency
                    = 74.930;
                                     // Hz
                                                      13.3 msec
                                                                     frame
Pixel Clock
                    = 245.250:
                                     // MHz
                                                 =
                                                       4.1 nsec
                                                                     +0.5\%
Character Width
                                     // Pixels
                                                      32.6 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                        4.0 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                    26.4% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                     4.4% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 10.634:
                                     // (usec)
                                                       326 \text{ chars} =
                                                                      2608 Pixels
Hor Addr Time
                    = 7.829:
                                                       240 chars =
                                                                      1920 Pixels
                                     // (usec)
Hor Blank Start
                    = 7.829:
                                     // (usec)
                                                       240 \text{ chars} =
                                                                      1920 Pixels
Hor Blank Time
                    = 2.805;
                                     // (usec)
                                                        86 chars =
                                                                       688 Pixels
                                                 =
Hor Sync Start
                    = 8.383;
                                     // (usec)
                                                       257 chars =
                                                                      2056 Pixels
// H Right Border
                    = 0.000:
                                     // (usec)
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                                 =
// H Front Porch
                    = 0.555:
                                     // (usec)
                                                 =
                                                        17 chars =
                                                                       136 Pixels
Hor Sync Time
                    = 0.848:
                                     // (usec)
                                                        26 chars =
                                                                       208 Pixels
                                                 =
// H Back Porch
                    = 1.403;
                                     // (usec)
                                                        43 chars =
                                                                       344 Pixels
                                                 =
// H Left Border
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                    = 0.000:
                                     // (usec)
Ver Total Time
                    = 13.346:
                                                      1255 lines
                                                                     HT - (1.06xHA)
                                     // (msec)
                    = 12.761:
                                                     1200 lines
Ver Addr Time
                                     // (msec)
                                                                          = 2.34
Ver Blank Start
                    = 12.761;
                                                     1200 lines
                                     // (msec)
Ver Blank Time
                    = 0.585:
                                     // (msec)
                                                        55 lines
                                                 =
Ver Sync Start
                    = 12.793;
                                     // (msec)
                                                 =
                                                     1203 lines
// V Bottom Border = 0.000;
                                     // (msec)
                                                         0 lines
// V Front Porch
                    = 0.032;
                                                         3 lines
                                     // (msec)
                                                 =
Ver Sync Time
                    = 0.064:
                                     // (msec)
                                                         6 lines
                                                 =
// V Back Porch
                    = 0.489;
                                     // (msec)
                                                        46 lines
// V Top Border
                    = 0.000;
                                     // (msec)
                                                         0 lines
```



Proposed: 3/4/03 Adopted: 8/21/03

Resolution: 1920 x 1200 at 85 Hz (non-interlaced)

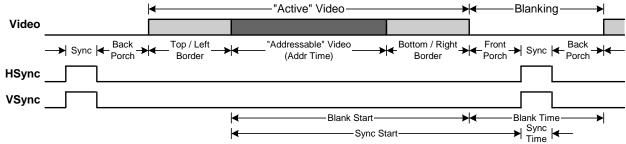
EDID ID: D1h, 19h

BIOS Modes: n/a

Method: CVT Compliant

<u>Video Display Information Format (VDIF)</u> <u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 2.30MA @ 85Hz (1920x1200);
Hor Pixels
                                      // Pixels
                    = 1920:
Ver Pixels
                    = 1200:
                                      // Lines
Hor Frequency
                    = 107.184:
                                      // KHz
                                                        9.3 usec
                                                                   / line
Ver Frequency
                    = 84.932;
                                      // Hz
                                                       11.8 msec
                                                                   / frame
Pixel Clock
                    = 281.250:
                                      // MHz
                                                 =
                                                        3.6 nsec
                                                                     +0.5\%
Character Width
                                      // Pixels
                                                      28.4 nsec
                    = 8;
Scan Type
                    = NONINTERLACED;
                                                       // H Phase =
                                                                        4.0 %
                    = NEGATIVE // HBlank =
Hor Sync Polarity
                                                    26.8% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                     4.9% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 9.330:
                                      // (usec)
                                                       328 chars =
                                                                      2624 Pixels
Hor Addr Time
                    = 6.827:
                                                       240 chars =
                                                                      1920 Pixels
                                      // (usec)
Hor Blank Start
                    = 6.827:
                                      // (usec)
                                                       240 \text{ chars} =
                                                                      1920 Pixels
Hor Blank Time
                    = 2.503;
                                      // (usec)
                                                        88 \text{ chars} =
                                                                        704 Pixels
                                                 =
Hor Sync Start
                    = 7.339;
                                      // (usec)
                                                       258 \text{ chars} =
                                                                      2064 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                                 =
// H Front Porch
                    = 0.512:
                                      // (usec)
                                                 =
                                                        18 chars =
                                                                        144 Pixels
Hor Sync Time
                    = 0.740:
                                      // (usec)
                                                        26 chars =
                                                                        208 Pixels
                                                 =
// H Back Porch
                    = 1.252;
                                      // (usec)
                                                        44 chars =
                                                                        352 Pixels
                                                 =
// H Left Border
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                    = 0.000:
                                      // (usec)
Ver Total Time
                    = 11.774:
                                                      1262 lines
                                                                     HT - (1.06xHA)
                                      // (msec)
                                                                          = 2.09
Ver Addr Time
                    = 11.196;
                                      // (msec)
                                                      1200 lines
Ver Blank Start
                    = 11.196;
                                                      1200 lines
                                      // (msec)
Ver Blank Time
                    = 0.578;
                                      // (msec)
                                                        62 lines
                                                 =
Ver Sync Start
                    = 11.224;
                                      // (msec)
                                                 =
                                                      1203 lines
// V Bottom Border = 0.000;
                                      // (msec)
                                                         0 lines
// V Front Porch
                    = 0.028;
                                                         3 lines
                                      // (msec)
                                                 =
Ver Sync Time
                    = 0.056:
                                      // (msec)
                                                         6 lines
                                                 =
// V Back Porch
                    = 0.494;
                                      // (msec)
                                                        53 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                         0 lines
```



Adopted: 9/17/98

Resolution: 1920 x 1440 at 60 Hz (non-interlaced)

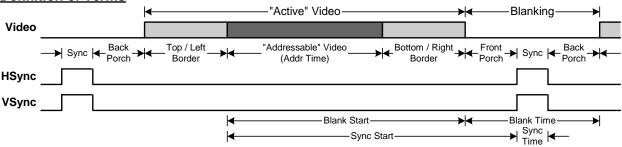
EDID ID: 0D1h, 040h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) Pre-Adjusted Timing Data

```
Timing Name
                    = 1920 \times 1440 @ 60 Hz;
Hor Pixels
                      1920:
                                      // Pixels
Ver Pixels
                    = 1440;
                                      // Lines
Hor Frequency
                     = 90.000:
                                      // KHz
                                                        11.1 usec
                                                                    / line
                                                  =
Ver Frequency
                     = 60.000:
                                      // Hz
                                                        16.7 msec
                                                                       frame
Pixel Clock
                                      // MHz
                                                         4.3 nsec
                                                                       \pm 0.5\%
                     = 234.000:
                                                  =
Character Width
                    = 8;
                                      // Pixels
                                                  =
                                                        34.2 nsec
Scan Type
                                                         // H Phase =
                                                                          4.2 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE; // HBlank =
                                                      26.2% of HTotal
Ver Sync Polarity
                                      // VBlank
                                                       4.0% of VTotal
                     = POSITIVE;
Hor Total Time
                    = 11.111:
                                      // (usec)
                                                        325 \text{ chars} =
                                                                        2600 Pixels
Hor Addr Time
                     = 8.205;
                                      // (usec)
                                                        240
                                                             chars =
                                                                        1920 Pixels
Hor Blank Start
                    = 8.205;
                                      // (usec)
                                                        240 chars =
                                                                        1920 Pixels
                                                  =
Hor Blank Time
                    = 2.906:
                                      // (usec)
                                                         85
                                                             chars =
                                                                         680 Pixels
                                                  =
Hor Sync Start
                    = 8.752;
                                      // (usec)
                                                  =
                                                        256 \text{ chars} =
                                                                        2048 Pixels
// H Right Border
                     = 0.000:
                                      // (usec)
                                                  =
                                                           0
                                                             chars =
                                                                            0 Pixels
// H Front Porch
                    = 0.547:
                                      // (usec)
                                                          16
                                                             chars =
                                                                          128 Pixels
                                                  =
Hor Svnc Time
                    = 0.889:
                                      // (usec)
                                                         26
                                                             chars =
                                                                         208 Pixels
                                                  =
// H Back Porch
                    = 1.470;
                                      // (usec)
                                                  =
                                                         43
                                                             chars =
                                                                         344 Pixels
// H Left Border
                     = 0.000;
                                      // (usec)
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                                  =
Ver Total Time
                     = 16.667;
                                      // (msec)
                                                       1500 lines
                                                                       HT - (1.06xHA)
Ver Addr Time
                    = 16.000;
                                                       1440 lines
                                                                            = 2.41
                                      // (msec)
                                                  =
Ver Blank Start
                                      // (msec)
                                                       1440 lines
                    = 16.000;
                                                  =
Ver Blank Time
                    = 0.667;
                                      // (msec)
                                                  =
                                                          60 lines
Ver Sync Start
                    = 16.011:
                                      // (msec)
                                                       1441 lines
// V Bottom Border
                    = 0.000;
                                                           0 lines
                                      // (msec)
                                                  =
// V Front Porch
                    = 0.011:
                                      // (msec)
                                                           1 lines
                                                  =
Ver Sync Time
                     = 0.033:
                                      // (msec)
                                                  =
                                                           3 lines
// V Back Porch
                                                          56 lines
                     = 0.622;
                                      // (msec)
// V Top Border
                     = 0.000:
                                                           0 lines
                                      // (msec)
```



Adopted: 9/17/98

Resolution: 1920 x 1440 at 75 Hz (non-interlaced)

EDID ID: 0D1h, 04Fh

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF) Pre-Adjusted Timing Data

```
Timing Name
                    = 1920 \times 1440 @ 75Hz;
Hor Pixels
                      1920:
                                       // Pixels
Ver Pixels
                                       // Lines
                     = 1440;
Hor Frequency
                     = 112.500:
                                       // KHz
                                                         8.9 usec
                                                                     / line
                                                  =
Ver Frequency
                     = 75.000:
                                       // Hz
                                                        13.3 msec
                                                                       frame
Pixel Clock
                     = 297.000:
                                       // MHz
                                                         3.4 nsec
                                                                       \pm 0.5\%
                                                  =
                     = 8;
Character Width
                                       // Pixels
                                                  =
                                                        26.9 nsec
Scan Type
                                                         // H Phase =
                                                                           3.9 %
                     = NONINTERLACED;
Hor Sync Polarity
                                      // HBlank =
                                                      27.3% of HTotal
                     = NEGATIVE
Ver Sync Polarity
                                       // VBlank
                                                       4.0% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 8.889:
                                       // (usec)
                                                         330 \text{ chars} =
                                                                         2640 Pixels
Hor Addr Time
                     = 6.465;
                                       // (usec)
                                                         240 \text{ chars} =
                                                                         1920 Pixels
Hor Blank Start
                                       // (usec)
                                                         240 chars =
                                                                         1920 Pixels
                     = 6.465;
                                                  =
Hor Blank Time
                     = 2.424:
                                       // (usec)
                                                          90 \text{ chars} =
                                                                          720 Pixels
                                                  =
Hor Sync Start
                     = 6.949:
                                       // (usec)
                                                  =
                                                         258
                                                             chars =
                                                                         2064 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                  =
                                                           0
                                                              chars =
                                                                            0 Pixels
// H Front Porch
                     = 0.485:
                                       // (usec)
                                                          18
                                                              chars =
                                                                          144 Pixels
                                                  =
Hor Svnc Time
                     = 0.754:
                                       // (usec)
                                                          28
                                                              chars =
                                                                          224 Pixels
                                                  =
// H Back Porch
                     = 1.185;
                                       // (usec)
                                                  =
                                                          44
                                                              chars =
                                                                          352 Pixels
// H Left Border
                     = 0.000;
                                       // (usec)
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                                  =
                                                                       HT - (1.06xHA)
Ver Total Time
                     = 13.333;
                                       // (msec)
                                                        1500 lines
Ver Addr Time
                     = 12.800;
                                                        1440 lines
                                                                            = 2.04
                                       // (msec)
                                                  =
Ver Blank Start
                     = 12.800;
                                       // (msec)
                                                        1440 lines
                                                  =
Ver Blank Time
                     = 0.533;
                                       // (msec)
                                                  =
                                                          60 lines
Ver Sync Start
                     = 12.809;
                                       // (msec)
                                                        1441 lines
// V Bottom Border
                     = 0.000;
                                                           0 lines
                                       // (msec)
                                                  =
// V Front Porch
                     = 0.009:
                                       // (msec)
                                                           1 lines
                                                  =
Ver Sync Time
                     = 0.027:
                                       // (msec)
                                                  =
                                                           3 lines
// V Back Porch
                                                          56 lines
                     = 0.498;
                                       // (msec)
// V Top Border
                     = 0.000:
                                                           0 lines
                                       // (msec)
```

