

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

VESA and Industry Standards and Guidelines for Computer Display Monitor Timing (DMT) Version 1.0, Revision 10 October 29, 2004

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.

Standards and Guidelines Summary

		Horizontal	Pixel		Original	
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 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	Refresh Rate	Horizontal Frequency	Pixel Frequency	Standard Type	Original Document	Date
1680 x 1050	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

Intellectual Property

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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

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4. Revision History

	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
version 1.0	Revision 6.1	3/ 1/73	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 R0.6
v Cision 1.0	TC VISION 0.0	1/10/20	passed on 3/96 (85 Hz standards, 1152x864@75,
			1280x960@60)
Version 1.0	Revision 0.6a	9/8/96	Reformatted to Word 6 for electronic distribution
Version 1.0	Revision 0.7		Added new modes from VDMTREV V1.0 R0.8
V CISIOII 1.0	KCVISIOII 0.7	12/10/70	passed on 12/96 (1280x1024 @ 60, 1600x1200@60,
V 1 0	D:-: 0 0	7/22/00	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
**	D	0/21/02	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
			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.
			(1000 X 1050) 101111atis.

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

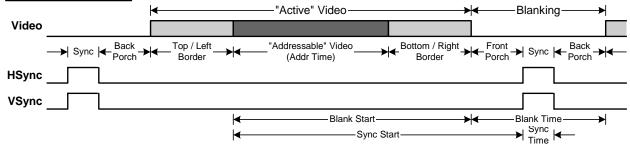
Resolution: 640 x 350 at 85 Hz (non-interlaced)

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



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

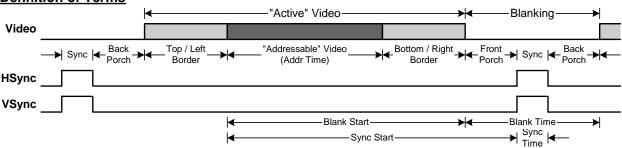
Resolution: 640 x 400 at 85 Hz (non-interlaced)

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

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 640 x 400 @ 85Hz:
Hor Pixels
                      640:
                                      // Pixels
Ver Pixels
                    = 400;
                                      // Lines
                    = 37.861;
                                      // KHz
Hor Frequency
                                                       26.4 usec
                                                                   / line
Ver Frequency
                    = 85.080;
                                      // Hz
                                                       11.8 msec
                                                                     frame
                                                       31.7 nsec
                                                                      \pm 0.5\%
Pixel Clock
                    = 31.500:
                                      // MHz
                                                 =
Character Width
                    = 8;
                                      // Pixels
                                                 =
                                                      254.0 nsec
Scan Type
                                                        // H Phase =
                    = NONINTERLACED;
                                                                         3.8 %
                    = NEGATIVE; // HBlank =
Hor Sync Polarity
                                                     23.1% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                     10.1% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 26.413:
                                      // (usec)
                                                        104 \text{ chars} =
                                                                         832 Pixels
Hor Addr Time
                    = 20.317;
                                      // (usec)
                                                         80
                                                            chars =
                                                                         640 Pixels
                                                 =
Hor Blank Start
                    = 20.317;
                                      // (usec)
                                                         80
                                                            chars =
                                                                         640 Pixels
                                                            chars =
Hor Blank Time
                    = 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
                    = 1.016:
                                      // (usec)
                                                          4
                                                            chars =
                                                                         32 Pixels
Hor Sync Time
                                                          8
                    = 2.032;
                                      // (usec)
                                                            chars =
                                                                         64 Pixels
// H Back Porch
                    = 3.048;
                                      // (usec)
                                                                         96 Pixels
                                                        12
                                                            chars =
                                                 =
// H Left Border
                    = 0.000:
                                      // (usec)
                                                          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
                                                        400 lines
                    = 10.565;
                                      // (msec)
                                                 =
Ver Blank Time
                    = 1.189;
                                      // (msec)
                                                         45 lines
                                                 =
Ver Sync Start
                    = 10.591;
                                      // (msec)
                                                 =
                                                        401 lines
// V Bottom Border
                    = 0.000;
                                                          0 lines
                                      // (msec)
                                                 =
// V Front Porch
                    = 0.026;
                                      // (msec)
                                                          1 lines
                                                 =
                    = 0.079;
Ver Sync Time
                                      // (msec)
                                                          3 lines
// V Back Porch
                    = 1.083;
                                      // (msec)
                                                         41 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



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

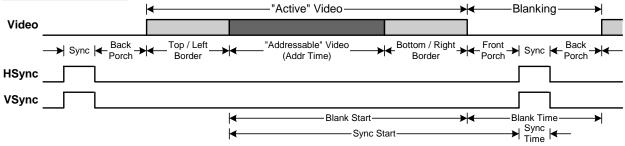
Resolution: 720 x 400 at 85 Hz (non-interlaced)

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

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 720 x 400 @ 85Hz:
Hor Pixels
                      720:
                                      // Pixels
Ver Pixels
                     = 400;
                                      // Lines
Hor Frequency
                     = 37.927:
                                      // KHz
                                                       26.4 usec
                                                                    / line
Ver Frequency
                     = 85.039;
                                      // Hz
                                                        11.8 msec
                                                                      frame
                     = 35.500;
                                                       28.2 nsec
                                                                      \pm 0.5\%
Pixel Clock
                                      // MHz
                                                  =
Character Width
                     = 9;
                                      // Pixels
                                                      253.5 nsec
Scan Type
                                                        // H Phase =
                                                                          3.8 %
                     = NONINTERLACED;
                     = NEGATIVE; // HBlank
Hor Sync Polarity
                                                     23.1% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank
                                                     10.3% of VTotal
Hor Total Time
                     = 26.366;
                                      // (usec)
                                                        104 chars =
                                                                         936 Pixels
                                                         80
Hor Addr Time
                     = 20.282;
                                      // (usec)
                                                  =
                                                             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
                                                                          36 Pixels
                     = 1.014;
                                      // (usec)
                                                             chars =
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
                                                        446 lines
                     = 11.759;
                                      // (msec)
                                                  =
                                                                      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
                     = 10.573;
                                                        401 lines
                                      // (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;
                                                         42 lines
                                      // (msec)
                                                  =
// 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)

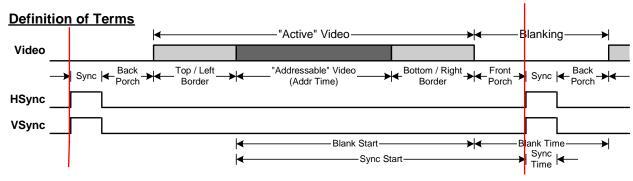
EDID ID: 031h, 040h

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

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 640 \times 480 @ 60Hz;
Hor Pixels
                    = 640;
                                      // Pixels
Ver Pixels
                                      // Lines
                     = 480;
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
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          2.0 %
                     = 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)
                                                          18
                                                             chars =
                                                                          144 Pixels
                                                  =
Hor Sync Start
                     = 26.058:
                                      // (usec)
                                                  =
                                                         82 \text{ chars} =
                                                                          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;
                                                           1 \text{ chars} =
                                                                            8 Pixels
                                      // (usec)
                                                  =
Ver Total Time
                     = 16.683;
                                                        525 lines
                                                                       HT - (1.06xHA)
                                      // (msec)
                                                  =
Ver Addr Time
                     = 15.253:
                                                        480 lines
                                                                            = 4.83
                                      // (msec)
                                                  =
                     = 15.507;
Ver Blank Start
                                      // (msec)
                                                        488 lines
                                                  =
Ver Blank Time
                     = 0.922;
                                      // (msec)
                                                  =
                                                         29 lines
Ver Sync Start
                     = 15.571;
                                      // (msec)
                                                        490 lines
// V Bottom Border
                     = 0.254:
                                      // (msec)
                                                           8 lines
                                                  =
// V Front Porch
                     = 0.064:
                                      // (msec)
                                                           2 lines
                                                  =
Ver Sync Time
                     = 0.064:
                                      // (msec)
                                                           2 lines
// V Back Porch
                     = 0.794;
                                      // (msec)
                                                          25 lines
// V Top Border
                     = 0.254:
                                      // (msec)
                                                           8 lines
```



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

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

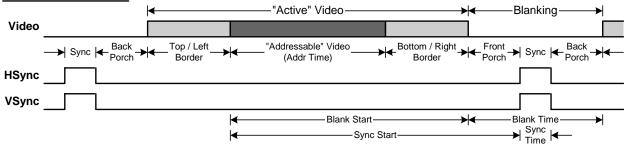
EDID ID: 031h, 04Ch

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> <u>Pre-Adjusted Timing Data</u>

```
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
                    = NONINTERLACED;
                                                        // H Phase =
                                                                         6.3 %
                    = NEGATIVE; // HBlank =
Hor Sync Polarity
                                                     21.2% of HTotal
Ver Sync Polarity
                    = NEGATIVE; // VBlank
                                                      4.6% of VTotal
Hor Total Time
                    = 26.413:
                                      // (usec)
                                                 =
                                                        104 chars =
                                                                         832 Pixels
Hor Addr Time
                    = 20.317:
                                      // (usec)
                                                         80
                                                             chars =
                                                                         640 Pixels
                                                 =
Hor Blank Start
                    = 20.571;
                                                                         648 Pixels
                                      // (usec)
                                                         81
                                                             chars =
                                                 =
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;
                                                                           8 Pixels
                                      // (usec)
                                                          1
                                                            chars =
                                                 =
Ver Total Time
                    = 13.735;
                                                        520 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                                                 =
Ver Addr Time
                    = 12.678:
                                                        480 lines
                                                                           = 4.88
                                      // (msec)
                                                 =
Ver Blank Start
                    = 12.889;
                                                        488 lines
                                      // (msec)
                                                 =
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:
                                      // (msec)
                                                          8 lines
```



Adopted: 10/4/93

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

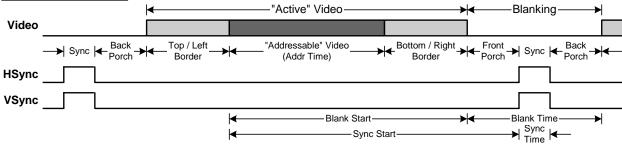
EDID ID: 031h, 04Fh

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

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 640 \times 480 @ 75Hz;
Hor Pixels
                    = 640;
                                      // Pixels
Ver Pixels
                                      // Lines
                    = 480;
Hor Frequency
                     = 37.500:
                                      // KHz
                                                        26.7 usec
                                                                    / line
                                                  =
Ver Frequency
                     = 75.000:
                                      // Hz
                                                        13.3 msec
                                                                      frame
Pixel Clock
                                      // MHz
                                                                       \pm 0.5\%
                    = 31.500:
                                                        31.7 nsec
Character Width
                    = 8:
                                      // Pixels
                                                       254.0 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          6.2 %
                    = NEGATIVE; // HBlank =
Hor Sync Polarity
                                                      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
                                                         80 \text{ chars} =
                    = 20.317;
                                      // (usec)
                                                                         640 Pixels
                                                  =
Hor Blank Time
                    = 6.349:
                                      // (usec)
                                                          25
                                                             chars =
                                                                         200 Pixels
                                                  =
Hor Sync Start
                    = 20.825:
                                      // (usec)
                                                  =
                                                         82
                                                             chars =
                                                                         656 Pixels
// H Right Border
                     = 0.000:
                                      // (usec)
                                                  =
                                                           0
                                                             chars =
                                                                            0 Pixels
// H Front Porch
                                                           2
                    = 0.508:
                                      // (usec)
                                                             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;
                                                         500 lines
                                                                       HT - (1.06xHA)
                                      // (msec)
                                                  =
Ver Addr Time
                    = 12.800:
                                                        480 lines
                                                                            = 5.13
                                      // (msec)
                                                  =
Ver Blank Start
                    = 12.800;
                                                        480 lines
                                      // (msec)
                                                  =
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:
                                      // (msec)
                                                           0 lines
```



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

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

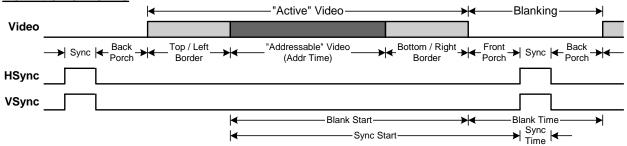
EDID ID: 031h, 059h

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
Hor Frequency
                    = 43.269;
                                      // KHz
                                                                    / line
                                                       23.1 usec
Ver Frequency
                    = 85.008;
                                      // Hz
                                                 =
                                                       11.8 msec
                                                                   / frame
Pixel Clock
                    = 36.000;
                                      // MHz
                                                       27.8 nsec
                                                                      \pm 0.5\%
                                      // Pixels
Character Width
                                                      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 chars =
                                                                         832 Pixels
                                                 =
Hor Addr Time
                    = 17.778;
                                      // (usec)
                                                         80
                                                             chars =
                                                                         640 Pixels
Hor Blank Start
                    = 17.778;
                                      // (usec)
                                                 =
                                                         80
                                                             chars =
                                                                         640 Pixels
                                                                         192 Pixels
Hor Blank Time
                    = 5.333;
                                      // (usec)
                                                         24 \text{ chars} =
                                                 =
Hor Sync Start
                    = 19.333;
                                                         87
                                                             chars =
                                                                         696 Pixels
                                      // (usec)
// H Right Border
                    = 0.000:
                                                          0
                                                             chars =
                                                                           0 Pixels
                                      // (usec)
                                                             chars =
// H Front Porch
                    = 1.556;
                                      // (usec)
                                                          7
                                                                          56 Pixels
Hor Sync Time
                                                                          56 Pixels
                    = 1.556;
                                      // (usec)
                                                          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:
                                                        509 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 11.093:
                                      // (msec)
                                                        480 lines
                                                                           = 4.27
Ver Blank Start
                    = 11.093;
                                                        480 lines
                                      // (msec)
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)
                                                 =
// V Back Porch
                    = 0.578;
                                      // (msec)
                                                         25 lines
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



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

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

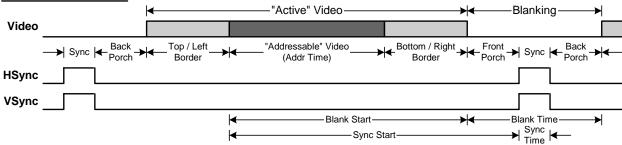
EDID ID: n/a

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
                     = NONINTERLACED;
                                                          // H Phase =
                                                                           5.1 %
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
                                                   =
Hor Sync Start
                     = 22.889:
                                       // (usec)
                                                   =
                                                         103
                                                              chars =
                                                                          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;
                                                              chars =
                                                                             0 Pixels
                                       // (usec)
                                                   =
                                                           0
Ver Total Time
                     = 17.778;
                                                         625 lines
                                                                        HT - (1.06xHA)
                                       // (msec)
                                                   =
Ver Addr Time
                     = 17.067:
                                                         600 lines
                                                                             = 4.89
                                       // (msec)
                                                   =
Ver Blank Start
                                                         600 lines
                     = 17.067;
                                       // (msec)
                                                   =
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)

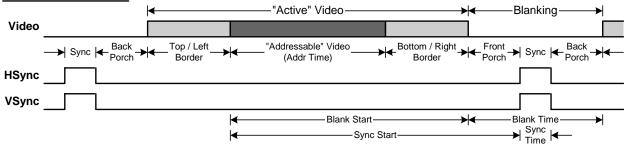
EDID ID: 045h, 040h

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
                     = NONINTERLACED;
                                                         // H Phase =
                                                                           2.3 %
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 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 Pixels
                     = 0.000;
                                                              chars =
                                       // (usec)
                                                  =
Ver Total Time
                     = 16.579;
                                                         628 lines
                                                                       HT - (1.06xHA)
                                       // (msec)
                                                  =
Ver Addr Time
                     = 15.840;
                                                         600 lines
                                                                             = 5.2
                                       // (msec)
                                                  =
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:
                                       // (msec)
                                                           0 lines
```



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

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

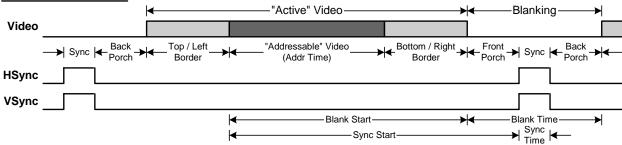
EDID ID: 045h, 04Ch

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

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 800 x 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
                     = NONINTERLACED;
                                                         // H Phase =
                                                                           0.4 %
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
                     = 16.000;
                                       // (usec)
                                                         100 \text{ chars} =
                                                                          800 Pixels
                                                  =
Hor Blank Time
                     = 4.800:
                                       // (usec)
                                                          30 \text{ chars} =
                                                                          240 Pixels
                                                  =
Hor Sync Start
                     = 17.120;
                                       // (usec)
                                                  =
                                                         107 chars =
                                                                          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;
                                                              chars =
                                                                             0 Pixels
                                       // (usec)
                                                           0
                                                  =
Ver Total Time
                     = 13.853;
                                                         666 lines
                                                                       HT - (1.06xHA)
                                       // (msec)
                                                  =
Ver Addr Time
                     = 12.480:
                                                         600 lines
                                                                             = 3.84
                                       // (msec)
                                                  =
Ver Blank Start
                     = 12.480;
                                                         600 lines
                                       // (msec)
                                                  =
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)

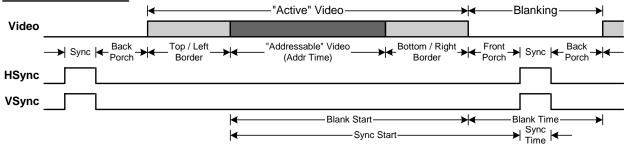
EDID ID: 045h, 04Fh

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

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 800 \times 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
                                                        20.2 nsec
Pixel Clock
                                       // MHz
                                                                        \pm 0.5\%
                     = 49.500:
Character Width
                     = 8:
                                       // Pixels
                                                       161.6 nsec
Scan Type
                     = NONINTERLACED;
                                                          // H Phase =
                                                                           6.8 %
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
                                                         100 \text{ chars} =
                     = 16.162;
                                       // (usec)
                                                                          800 Pixels
                                                   =
Hor Blank Time
                     = 5.172:
                                       // (usec)
                                                          32 \text{ chars} =
                                                                          256 Pixels
                                                   =
Hor Sync Start
                     = 16.485:
                                       // (usec)
                                                   =
                                                         102 chars =
                                                                          816 Pixels
// H Right Border
                     = 0.000:
                                       // (usec)
                                                   =
                                                           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;
                                                              chars =
                                                                             0 Pixels
                                       // (usec)
                                                           0
                                                   =
Ver Total Time
                     = 13.333;
                                                         625 lines
                                                                        HT - (1.06xHA)
                                       // (msec)
                                                   =
Ver Addr Time
                     = 12.800:
                                                         600 lines
                                                                             = 4.2
                                       // (msec)
                                                   =
Ver Blank Start
                     = 12.800;
                                                         600 lines
                                       // (msec)
                                                   =
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:
                                       // (msec)
                                                           0 lines
```



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

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

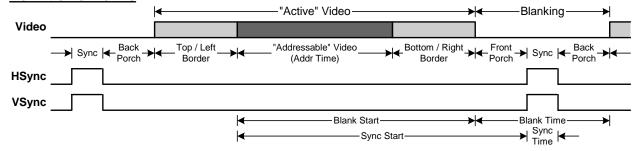
EDID ID: 045h, 059h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 800 \times 600 @ 85Hz:
Hor Pixels
                    = 800:
                                       // Pixels
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:
                                                         // H Phase =
Scan Type
                     = NONINTERLACED:
                                                                           5.7 %
                                                      23.7% of HTotal
Hor Sync Polarity
                     = POSITIVE:
                                       // HBlank
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:
                                                                          800 Pixels
                                      // (usec)
                                                  =
                                                         100 \text{ chars} =
Hor Blank Start
                     = 14.222:
                                       // (usec)
                                                         100 \text{ chars} =
                                                                          800 Pixels
                                                  =
Hor Blank Time
                     = 4.409:
                                       // (usec)
                                                              chars =
                                                          31
                                                                          248 Pixels
                                                         104 chars =
Hor Sync Start
                     = 14.791;
                                       // (usec)
                                                                          832 Pixels
// H Right Border
                     = 0.000;
                                       // (usec)
                                                             chars =
                                                                            0 Pixels
// 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)
                                                             chars =
                                                                            0 Pixels
                                                  =
                                                           0
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;
                                                          27 lines
                                       // (msec)
                                                  =
// V Top Border
                     = 0.000;
                                       // (msec)
                                                           0 lines
```



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

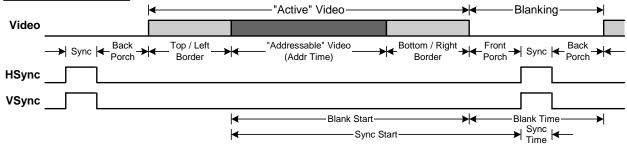
Resolution: 848 x 480 at 60 Hz (non-interlaced)

EDID ID: 4Bh, C0h

BIOS Modes: n/a
Method: *** NOT CVT COMPLIANT ***

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

```
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:
                                                        16.7 msec
                                                                    / frame
                                       // Hz
Pixel Clock
                     = 33.750:
                                       // MHz
                                                        29.6 nsec
                                                                       +0.5\%
Character Width
                                       // Pixels
                                                      237.0 nsec
                     = 8;
Scan Type
                                                         // H Phase =
                                                                          4.4 %
                     = NONINTERLACED;
Hor Sync Polarity
                     = POSITIVE:
                                       // HBlank =
                                                      22.1% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                       7.2% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 32.237:
                                                         136 chars =
                                                                        1088 Pixels
                                       // (usec)
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
                                                          30 \text{ chars} =
                                                                         240 Pixels
                     = 7.111;
                                       // (usec)
                                                  =
Hor Sync Start
                     = 25.600:
                                       // (usec)
                                                         108 \text{ chars} =
                                                                         864 Pixels
// H Right Border
                     = 0.000:
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                       // (usec)
                                                  =
// H Front Porch
                     = 0.474:
                                       // (usec)
                                                  =
                                                           2 \text{ chars} =
                                                                           16 Pixels
Hor Svnc 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
                                                        517 lines
                                                                       HT - (1.06xHA)
                     = 16.667:
                                       // (msec)
Ver Addr Time
                     = 15.474:
                                       // (msec)
                                                        480 lines
                                                                            = 5.6
Ver Blank Start
                     = 15.474;
                                                        480 lines
                                       // (msec)
Ver Blank Time
                                                          37 lines
                     = 1.193:
                                       // (msec)
                                                  =
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)

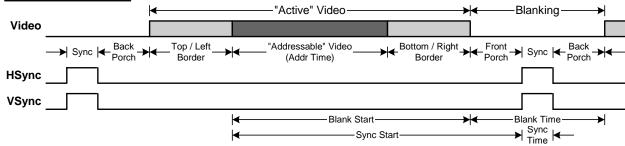
Method: *** NOT CVT COMPLIANT ***

Video Display Information Format (VDIF)

<u>Pre-Adjusted Timing Data</u>

```
Timing Name
                    = 1024 x 768 @ 43Hz:
Hor Pixels
                    = 1024:
                                      // Pixels
Ver Pixels
                     = 768:
                                      // Lines
                     = 35.522:
                                      // KHz
Hor Frequency
                                                        28.2 usec
                                                                     / line
                                                  =
                                                                     / field
Ver Frequency
                     = 86.957;
                                      // Hz
                                                  =
                                                        11.5 msec
Pixel Clock
                     = 44.900:
                                                        22.3 nsec
                                                                       \pm 0.5\%
                                      // MHz
Character Width
                                      // Pixels
                                                       178.2 nsec
                     = 8;
                                                  =
Scan Type
                     = INTERLACED;
Hor Sync Polarity
                     = POSITIVE:
                                                      19.0% of HTotal
                                      // HBlank =
Ver Sync Polarity
                                                       5.9% of VTotal
                     = POSITIVE:
                                      // VBlank =
                     = 28.151;
Hor Total Time
                                                                         1264 Pixels
                                      // (usec)
                                                         158 chars =
                                                         128
Hor Addr Time
                     = 22.806;
                                      // (usec)
                                                              chars =
                                                                         1024 Pixels
Hor Blank Start
                     = 22.806;
                                      // (usec)
                                                  =
                                                         128
                                                              chars =
                                                                         1024 Pixels
                     = 5.345:
Hor Blank Time
                                      // (usec)
                                                          30
                                                              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:
                                      // (usec)
                                                              chars =
                                                                          176 Pixels
// H Back Porch
                     = 1.247;
                                                              chars =
                                                                           56 Pixels
                                      // (usec)
                                                  =
// H Left Border
                     = 0.000:
                                      // (usec)
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                                  =
Ver Total Time
                     = 23.000;
                                      // (msec)
                                                  =
                                                         817 lines
                                                                    (Per Frame)
Ver Addr Time
                                                                    (Per Frame)
                     = 21.620;
                                      // (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)

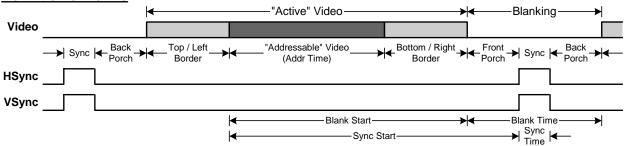
EDID ID: 061h, 040h

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

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 1024 \times 768 @ 60Hz;
Hor Pixels
                    = 1024:
                                      // Pixels
Ver Pixels
                    = 768;
                                      // Lines
                     = 48.363;
                                      // KHz
                                                                    / line
Hor Frequency
                                                       20.7 usec
                                                  =
Ver Frequency
                     = 60.004;
                                                        16.7 msec
                                      // Hz
                                                                      frame
                                                  =
                                                       15.4 nsec
Pixel Clock
                    = 65.000;
                                      // MHz
                                                                      \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:
                                                        168 \text{ chars} =
                                      // (usec)
                                                                        1344 Pixels
Hor Addr Time
                    = 15.754;
                                      // (usec)
                                                             chars =
                                                                        1024 Pixels
                                                  =
                                                        128
Hor Blank Start
                    = 15.754:
                                      // (usec)
                                                        128
                                                             chars =
                                                                        1024 Pixels
                                                             chars =
Hor Blank Time
                    = 4.923;
                                      // (usec)
                                                  =
                                                         40
                                                                         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;
                                                             chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
                                                          0
Ver Total Time
                    = 16.666;
                                      // (msec)
                                                        806 lines
                                                                      HT - (1.06xHA)
                                                  =
                                                        768 lines
Ver Addr Time
                    = 15.880;
                                                                           = 3.98
                                      // (msec)
Ver Blank Start
                    = 15.880;
                                      // (msec)
                                                  =
                                                        768 lines
Ver Blank Time
                    = 0.786;
                                      // (msec)
                                                         38 lines
Ver Sync Start
                    = 15.942;
                                      // (msec)
                                                  =
                                                        771 lines
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                          0 lines
                                                  =
// V Front Porch
                                                          3 lines
                     = 0.062:
                                      // (msec)
Ver Svnc Time
                     = 0.124:
                                      // (msec)
                                                          6 lines
// V Back Porch
                                                         29 lines
                     = 0.600:
                                      // (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)

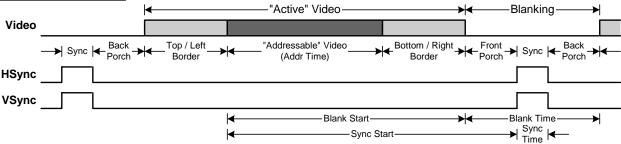
EDID ID: 061h, 04Ah

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

Method: *** NOT CVT COMPLIANT ***

<u>Video Display Information Format (VDIF)</u> <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 %
                    = NEGATIVE; // HBlank =
Hor Sync Polarity
                                                     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
                                                            chars =
                                                                        1024 Pixels
Hor Blank Start
                                      // (usec)
                                                        128 \text{ chars} =
                                                                        1024 Pixels
                    = 13.653;
                                                  =
Hor Blank Time
                    = 4.053:
                                      // (usec)
                                                         38
                                                            chars =
                                                                         304 Pixels
                                                  =
Hor Sync Start
                    = 13.973:
                                      // (usec)
                                                  =
                                                        131 \text{ chars} =
                                                                        1048 Pixels
// H Right Border
                    = 0.000:
                                      // (usec)
                                                  =
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                                                          3
                    = 0.320:
                                      // (usec)
                                                             chars =
                                                                          24 Pixels
                                                  =
Hor Svnc Time
                    = 1.813:
                                      // (usec)
                                                             chars =
                                                                         136 Pixels
                                                  =
// H Back Porch
                    = 1.920;
                                      // (usec)
                                                  =
                                                         18
                                                             chars =
                                                                         144 Pixels
// H Left Border
                    = 0.000;
                                                             chars =
                                                                           0 Pixels
                                      // (usec)
                                                          0
                                                  =
Ver Total Time
                    = 14.272;
                                                        806 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                                                  =
Ver Addr Time
                    = 13.599:
                                                        768 lines
                                                                           = 3.23
                                      // (msec)
                                                  =
                                                        768 lines
Ver Blank Start
                    = 13.599;
                                      // (msec)
                                                  =
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

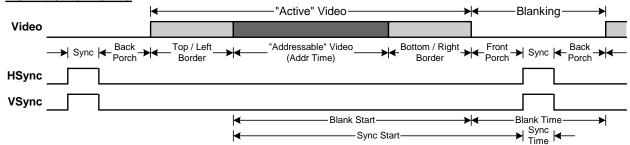
BIOS Modes: 104h, 105h, 116h, 117h, & 118h (4, 8, 15, 16, & 24 bpp)

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 1024 \times 768 @ 75Hz;
Hor Pixels
                                      // Pixels
                      1024:
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
                    = 13.003;
                                      // (usec)
                                                        128 chars =
                                                                        1024 Pixels
                                                  =
Hor Blank Time
                                                                         288 Pixels
                    = 3.657;
                                      // (usec)
                                                         36 \text{ chars} =
                                                        130 chars =
Hor Sync Start
                     = 13.206:
                                      // (usec)
                                                                        1040 Pixels
// H Right Border
                                                             chars =
                    = 0.000:
                                      // (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
                                                  =
                                                         32 lines
Ver Blank Time
                    = 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
                     = 0.050;
                                      // (msec)
                                                          3 lines
// V Back Porch
                     = 0.466:
                                      // (msec)
                                                         28 lines
// 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

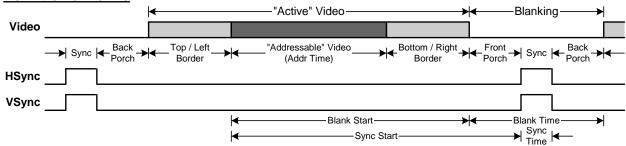
Resolution: 1024 x 768 at 85 Hz (non-interlaced)

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
                                      // KHz
                                                        14.6 usec
                                                                    / line
Hor Frequency
                     = 68.677;
                                                  =
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
                                                                          5.8 %
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                     = POSITIVE;
Hor Sync Polarity
                                      // HBlank =
                                                      25.6% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank
                                                       5.0% of VTotal
Hor Total Time
                    = 14.561;
                                      // (usec)
                                                        172 \text{ chars} =
                                                                        1376 Pixels
Hor Addr Time
                    = 10.836;
                                      // (usec)
                                                        128
                                                             chars =
                                                                        1024 Pixels
                                                  =
Hor Blank Start
                    = 10.836:
                                      // (usec)
                                                        128
                                                             chars =
                                                                        1024 Pixels
Hor Blank Time
                                                             chars =
                    = 3.725;
                                      // (usec)
                                                  =
                                                         44
                                                                         352 Pixels
                                                             chars =
                                                                        1072 Pixels
Hor Sync Start
                    = 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
                    = 2.201;
                                      // (usec)
                                                         26
                                                             chars =
                                                                         208 Pixels
                                                  =
// H Left Border
                    = 0.000;
                                                             chars =
                                                                            0 Pixels
                                      // (usec)
                                                  =
                                                          0
Ver Total Time
                    = 11.765;
                                      // (msec)
                                                        808 lines
                                                                      HT - (1.06xHA)
                                                  =
                                                        768 lines
Ver Addr Time
                                                                            = 3.07
                    = 11.183;
                                      // (msec)
Ver Blank Start
                    = 11.183;
                                      // (msec)
                                                  =
                                                        768 lines
Ver Blank Time
                    = 0.582;
                                      // (msec)
                                                         40 lines
Ver Sync Start
                    = 11.197;
                                      // (msec)
                                                  =
                                                        769 lines
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                          0 lines
                                                  =
// V Front Porch
                                                          1 lines
                     = 0.015:
                                      // (msec)
Ver Svnc Time
                     = 0.044:
                                      // (msec)
                                                           3 lines
// V Back Porch
                                                         36 lines
                     = 0.524:
                                      // (msec)
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



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

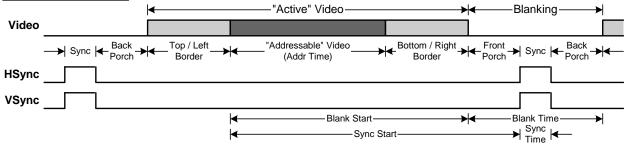
Resolution: 1152 x 864 at 75 Hz (non-interlaced)

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 %
Hor Sync Polarity
                                       // HBlank =
                                                      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
                                                         144 chars =
                     = 10.667;
                                       // (usec)
                                                                         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 Sync Time
                     = 1.185:
                                       // (usec)
                                                          16
                                                              chars =
                                                                          128 Pixels
                                                  =
// H Back Porch
                     = 2.370;
                                       // (usec)
                                                  =
                                                          32
                                                              chars =
                                                                          256 Pixels
// H Left Border
                     = 0.000;
                                                             chars =
                                                                            0 Pixels
                                       // (usec)
                                                  =
Ver Total Time
                     = 13.333;
                                                         900 lines
                                                                       HT - (1.06xHA)
                                       // (msec)
                                                  =
Ver Addr Time
                     = 12.800:
                                                         864 lines
                                                                            = 3.51
                                       // (msec)
                                                  =
                                                         864 lines
Ver Blank Start
                     = 12.800;
                                       // (msec)
                                                  =
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:
                                       // (msec)
                                                           0 lines
```



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

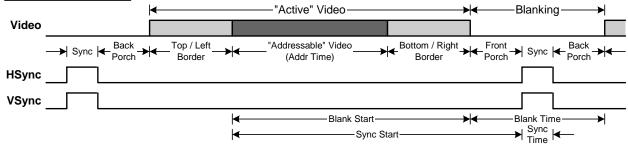
Resolution: 1280 x 768 at 60 Hz (non-interlaced) REDUCED BLANKING

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
Pixel Clock
                    = 68.250:
                                      // MHz
                                                        14.7 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                      117.2 nsec
                    = 8;
Scan Type
                                                        // H Phase =
                     = NONINTERLACED;
                                                                          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;
                                                        180 chars =
                                                                        1440 Pixels
                                      // (usec)
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;
                                                         20 \text{ chars} =
                                                                         160 Pixels
                                      // (usec)
                                                  =
Hor Sync Start
                     = 19.458:
                                      // (usec)
                                                        166 \text{ chars} =
                                                                        1328 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
// H Front Porch
                    = 0.703:
                                      // (usec)
                                                  =
                                                          6 \text{ chars} =
                                                                          48 Pixels
Hor Svnc Time
                                      // (usec)
                                                             chars =
                                                                          32 Pixels
                    = 0.469:
// 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)
Ver Addr Time
                    = 16.204:
                                      // (msec)
                                                        768 lines
                                                                           = 1.22
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
Pixel Clock
                    = 79.500:
                                      // MHz
                                                        12.6 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                      100.6 nsec
                    = 8;
Scan Type
                                                        // H Phase =
                                                                          3.8 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     23.1% of HTotal
Ver Sync Polarity
                                      // VBlank =
                    = POSITIVE;
                                                       3.8% of VTotal
Hor Total Time
                    = 20.931:
                                      // (usec)
                                                        208 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;
                                                         48 \text{ chars} =
                                                                         384 Pixels
                                      // (usec)
                                                  =
Hor Sync Start
                     = 16.906:
                                      // (usec)
                                                        168 \text{ chars} =
                                                                        1344 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                    = 0.805:
                                      // (usec)
                                                  =
                                                          8 \text{ chars} =
                                                                          64 Pixels
Hor Svnc Time
                                      // (usec)
                                                             chars =
                                                                         128 Pixels
                    = 1.610:
                                                         16
// H Back Porch
                    = 2.415;
                                      // (usec)
                                                         24 chars =
                                                                         192 Pixels
                                                  =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                    = 16.703;
Ver Total Time
                                                        798 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 16.075:
                                      // (msec)
                                                        768 lines
                                                                           = 3.86
Ver Blank Start
                    = 16.075;
                                                        768 lines
                                      // (msec)
Ver Blank Time
                                                         30 lines
                    = 0.628:
                                      // (msec)
                                                  =
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
                                                        // H Phase =
                                                                          3.8 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     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
                                                                        1280 Pixels
                    = 12.518:
                                      // (usec)
                                                        160 \text{ chars} =
Hor Blank Start
                    = 12.518:
                                      // (usec)
                                                        160 \text{ chars} =
                                                                        1280 Pixels
                                                  =
Hor Blank Time
                    = 4.068;
                                                         52 \text{ chars} =
                                                                         416 Pixels
                                      // (usec)
                                                  =
Hor Sync Start
                     = 13.301:
                                      // (usec)
                                                        170 \text{ chars} =
                                                                        1360 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                    = 0.782:
                                      // (usec)
                                                  =
                                                         10 chars =
                                                                          80 Pixels
Hor Svnc Time
                    = 1.252:
                                      // (usec)
                                                             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:
Ver Addr Time
                                      // (msec)
                                                        768 lines
                                                                           = 3.32
Ver Blank Start
                    = 12.739;
                                                        768 lines
                                      // (msec)
Ver Blank Time
                                                         37 lines
                    = 0.614:
                                      // (msec)
                                                  =
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

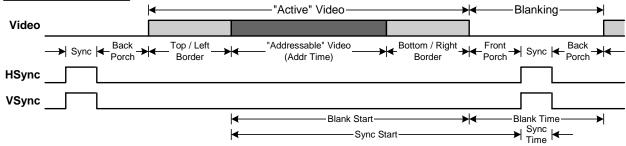
Resolution: 1280 x 768 at 85 Hz (non-interlaced)

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

Method: CVT Compliant

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

```
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;
                                                       11.8 msec
                                                                    / frame
                                      // Hz
Pixel Clock
                    = 117.500:
                                      // MHz
                                                        8.5 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       68.1 nsec
                    = 8;
Scan Type
                                                        // H Phase =
                                                                         4.0 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     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
                                                         54 \text{ chars} =
                                                                         432 Pixels
                    = 3.677;
                                      // (usec)
                                                  =
Hor Sync Start
                     = 11.574:
                                      // (usec)
                                                        170 \text{ chars} =
                                                                        1360 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                    = 0.681:
                                      // (usec)
                                                  =
                                                         10 chars =
                                                                          80 Pixels
Hor Svnc Time
                                      // (usec)
                                                             chars =
                                                                         136 Pixels
                    = 1.157:
                                                         17
// H Back Porch
                    = 1.838;
                                      // (usec)
                                                         27 chars =
                                                                         216 Pixels
                                                  =
// H Left Border
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                    = 0.000:
                                      // (usec)
Ver Total Time
                    = 11.787:
                                                        809 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 11.190;
                                      // (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)

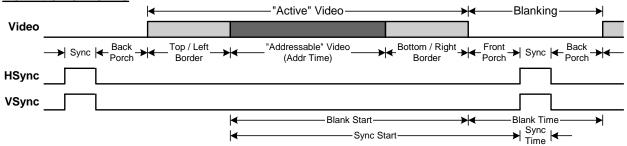
EDID ID: 081h, 040h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 1280 x 960 @ 60Hz;
Hor Pixels
                    = 1280:
                                     // Pixels
Ver Pixels
                    = 960;
                                     // Lines
                                                       16.7 usec
Hor Frequency
                    = 60.000;
                                      // KHz
                                                                   / line
Ver Frequency
                    = 60.000;
                                     // Hz
                                                 =
                                                       16.7 msec
                                                                   / frame
Pixel Clock
                    = 108.000;
                                     // MHz
                                                        9.3 nsec
                                                                     \pm 0.5\%
Character Width
                    = 8:
                                      // Pixels
                                                       74.1 nsec
                                                 =
Scan Type
                    = NONINTERLACED;
                                                        // 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
                                                            chars =
                                                                       1280 Pixels
Hor Blank Start
                    = 11.852;
                                     // (usec)
                                                 =
                                                       160
                                                            chars =
                                                                       1280 Pixels
                                                                        520 Pixels
Hor Blank Time
                    = 4.815;
                                     // (usec)
                                                 =
                                                        65
                                                            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)
                                                        14
                                                            chars =
                                                                        112 Pixels
// H Back Porch
                    = 2.889;
                                     // (usec)
                                                        39
                                                            chars =
                                                                        312 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                            chars =
                                                                          0 Pixels
                                      // (usec)
                                                         0
Ver Total Time
                                                      1000 lines
                                                                     HT - (1.06xHA)
                    = 16.667:
                                      // (msec)
                                                       960 lines
Ver Addr Time
                    = 16.000:
                                     // (msec)
                                                                          = 4.1
Ver Blank Start
                                                       960 lines
                    = 16.000;
                                      // (msec)
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)

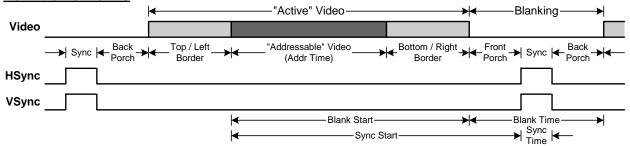
EDID ID: 081h, 059h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
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;
                                                  =
Scan Type
                    = NONINTERLACED;
                                                         // 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 \text{ chars} =
                                                                        1728 Pixels
                                                  =
Hor Addr Time
                    = 8.620:
                                      // (usec)
                                                        160
                                                             chars =
                                                                        1280 Pixels
Hor Blank Start
                    = 8.620;
                                      // (usec)
                                                  =
                                                        160
                                                             chars =
                                                                        1280 Pixels
Hor Blank Time
                    = 3.017;
                                      // (usec)
                                                  =
                                                         56 \text{ chars} =
                                                                         448 Pixels
Hor Sync Start
                                                        168
                                                             chars =
                                                                        1344 Pixels
                    = 9.051;
                                      // (usec)
// 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;
                                                                         160 Pixels
                                      // (usec)
                                                         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:
                                                       1011 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 11.171:
                                      // (msec)
                                                        960 lines
                                                                            = 2.5
Ver Blank Start
                    = 11.171;
                                                        960 lines
                                      // (msec)
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)

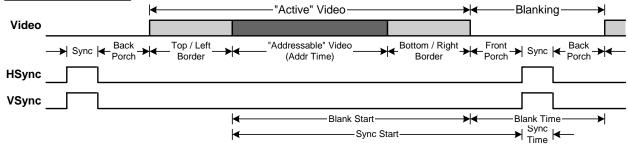
EDID ID: 081h, 080h

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
                                                  =
                                                        16.7 msec
Ver Frequency
                     = 60.020;
                                      // Hz
                                                                      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:
                                                         51
                                                             chars =
                                                                         408 Pixels
                                      // (usec)
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

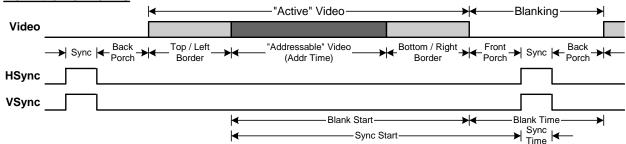
BIOS Modes: 106h, 107h, 119h, 11Ah, & 11Bh (4, 8, 15, 16, & 24 bpp)

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
                     = 79.976;
                                      // KHz
Hor Frequency
                                                        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
Hor Total Time
                    = 12.504:
                                                        211
                                                                        1688 Pixels
                                      // (usec)
                                                             chars =
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)
                                                             chars =
                                                                         408 Pixels
                                                  =
                                                         51
Hor Sync Start
                     = 9.600;
                                      // (usec)
                                                        162
                                                             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:
                                      // (msec)
                                                          1 lines
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)

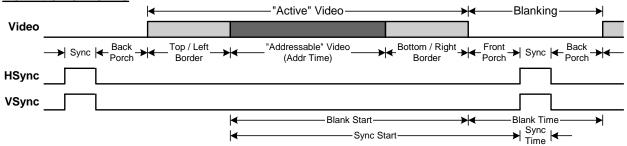
EDID ID: 081h, 099h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
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 \text{ chars} =
                                                                       1728 Pixels
                                                 =
Hor Addr Time
                    = 8.127:
                                      // (usec)
                                                        160
                                                            chars =
                                                                        1280 Pixels
Hor Blank Start
                    = 8.127;
                                      // (usec)
                                                 =
                                                        160
                                                            chars =
                                                                        1280 Pixels
Hor Blank Time
                                                                         448 Pixels
                    = 2.844;
                                      // (usec)
                                                 =
                                                         56 \text{ chars} =
Hor Sync Start
                    = 8.533;
                                                        168
                                                             chars =
                                                                       1344 Pixels
                                      // (usec)
// 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:
                                                                         160 Pixels
                                      // (usec)
                                                         20
                                                             chars =
// H Back Porch
                    = 1.422;
                                      // (usec)
                                                             chars =
                                                                         224 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                            chars =
                                                                           0 Pixels
                                      // (usec)
                                                          0
Ver Total Time
                    = 11.761:
                                                       1072 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                    = 11.235:
                                                                           = 2.36
Ver Addr Time
                                      // (msec)
                                                       1024 lines
Ver Blank Start
                    = 11.235;
                                                      1024 lines
                                      // (msec)
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)

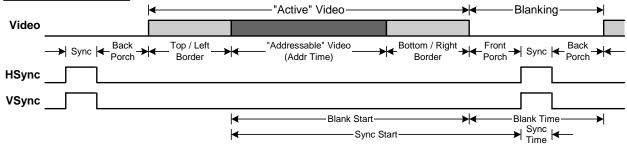
EDID ID: 8Bh, C0h

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:
                                                                    / frame
                                      // Hz
                                                       16.7 msec
Pixel Clock
                     = 85.500:
                                      // MHz
                                                  =
                                                       11.7 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       93.6 nsec
                     = 8;
Scan Type
                                                        // H Phase =
                                                                          5.4 %
                     = NONINTERLACED;
Hor Sync Polarity
                     = POSITIVE;
                                      // HBlank =
                                                     24.1% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                      3.4% of VTotal
                     = POSITIVE;
Hor Total Time
                     = 20.959;
                                                        224 chars =
                                                                        1792 Pixels
                                      // (usec)
Hor Addr Time
                                                                        1360 Pixels
                     = 15.906:
                                      // (usec)
                                                        170 \text{ chars} =
Hor Blank Start
                     = 15.906:
                                                        170 \text{ chars} =
                                                                        1360 Pixels
                                      // (usec)
                                                  =
Hor Blank Time
                                                         54 \text{ chars} =
                                                                         432 Pixels
                     = 5.053;
                                      // (usec)
                                                  =
Hor Sync Start
                     = 16.655:
                                      // (usec)
                                                        178 \text{ chars} =
                                                                        1424 Pixels
// H Right Border
                     = 0.000:
                                                           \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                     = 0.749:
                                      // (usec)
                                                  =
                                                          8 \text{ chars} =
                                                                          64 Pixels
Hor Svnc Time
                     = 1.310:
                                                                         112 Pixels
                                      // (usec)
                                                         14
                                                             chars =
// H Back Porch
                     = 2.994;
                                      // (usec)
                                                         32 chars =
                                                                         256 Pixels
                                                  =
// H Left Border
                     = 0.000:
                                                           \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
Ver Total Time
                                                        795 lines
                                                                      HT - (1.06xHA)
                     = 16.662;
                                      // (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
                                                           3 lines
                     = 0.063;
                                      // (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
                                                        // H Phase =
                                                                         1.0 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                     10.3% of HTotal
Ver Sync Polarity
                    = NEGATIVE // VBlank =
                                                      2.8% of VTotal
Hor Total Time
                    = 15.446;
                                                        195 chars =
                                                                       1560 Pixels
                                      // (usec)
Hor Addr Time
                                                        175 \text{ chars} =
                                                                       1400 Pixels
                    = 13.861:
                                      // (usec)
Hor Blank Start
                    = 13.861:
                                      // (usec)
                                                        175 \text{ chars} =
                                                                       1400 Pixels
                                                 =
Hor Blank Time
                    = 1.584;
                                                         20 \text{ chars} =
                                                                         160 Pixels
                                      // (usec)
                                                 =
Hor Sync Start
                     = 14.337;
                                      // (usec)
                                                        181 chars =
                                                                        1448 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
// H Front Porch
                    = 0.475:
                                      // (usec)
                                                 =
                                                          6 \text{ chars} =
                                                                          48 Pixels
Hor Svnc 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
                                                       1080 lines
                                                                      HT - (1.06xHA)
                    = 16.681:
                                      // (msec)
Ver Addr Time
                    = 16.218:
                                      // (msec)
                                                      1050 lines
                                                                           = 0.75
Ver Blank Start
                    = 16.218;
                                                      1050 lines
                                      // (msec)
                                                         30 lines
Ver Blank Time
                    = 0.463:
                                      // (msec)
                                                 =
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
                                                       65.7 nsec
                                      // Pixels
                    = 8;
Scan Type
                                                        // H Phase =
                                                                         3.9 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     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 \text{ chars} =
                                                                        1400 Pixels
                                      // (usec)
                    = 11.499;
Hor Blank Start
                                      // (usec)
                                                        175 \text{ chars} =
                                                                        1400 Pixels
                                                 =
Hor Blank Time
                    = 3.811;
                                                         58 \text{ chars} =
                                                                         464 Pixels
                                      // (usec)
                                                 =
Hor Sync Start
                     = 12.222:
                                      // (usec)
                                                        186 \text{ chars} =
                                                                        1488 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                 =
// H Front Porch
                    = 0.723:
                                      // (usec)
                                                 =
                                                         11 chars =
                                                                          88 Pixels
Hor Svnc Time
                                      // (usec)
                                                            chars =
                                                                         144 Pixels
                    = 1.183:
// H Back Porch
                    = 1.906;
                                      // (usec)
                                                            chars =
                                                                         232 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
Ver Total Time
                                                       1089 lines
                                                                      HT - (1.06xHA)
                    = 16.673:
                                      // (msec)
Ver Addr Time
                                                       1050 lines
                    = 16.076;
                                      // (msec)
                                                                           = 3.12
Ver Blank Start
                    = 16.076;
                                                      1050 lines
                                      // (msec)
Ver Blank Time
                                                         39 lines
                    = 0.597;
                                      // (msec)
                                                 =
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> <u>Pre-Adjusted Timing Data</u>

```
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
                                                                   / frame
                                                       13.4 msec
Pixel Clock
                    = 156.000:
                                      // MHz
                                                        6.4 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       51.3 nsec
                    = 8;
Scan Type
                                                        // H Phase =
                                                                         3.8 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     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 \text{ chars} =
                                                                        1400 Pixels
                    = 8.974;
                                      // (usec)
Hor Blank Start
                    = 8.974;
                                      // (usec)
                                                        175 \text{ chars} =
                                                                        1400 Pixels
                                                 =
Hor Blank Time
                    = 3.179;
                                                         62 \text{ chars} =
                                                                         496 Pixels
                                      // (usec)
                                                 =
Hor Sync Start
                     = 9.641:
                                      // (usec)
                                                        188 \text{ chars} =
                                                                       1504 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                 =
// H Front Porch
                    = 0.667:
                                      // (usec)
                                                 =
                                                         13 chars =
                                                                         104 Pixels
Hor Svnc 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)
                    = 13.357;
Ver Total Time
                                                       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
                                                         49 lines
                    = 0.596;
                                      // (msec)
                                                 =
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

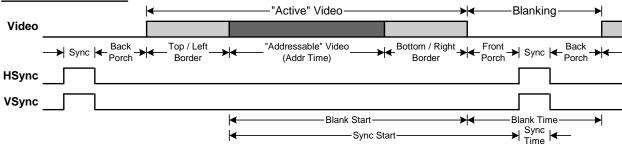
Resolution: 1400 x 1050 at 85 Hz (non-interlaced)

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
Pixel Clock
                    = 179.500:
                                      // MHz
                                                 =
                                                        5.6 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       44.6 nsec
                    = 8;
Scan Type
                                                        // H Phase =
                                                                         4.0 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     26.8% of HTotal
Ver Sync Polarity
                                      // VBlank =
                                                      5.0% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 10.652:
                                      // (usec)
                                                        239 chars =
                                                                       1912 Pixels
Hor Addr Time
                    = 7.799;
                                                        175 \text{ chars} =
                                                                       1400 Pixels
                                      // (usec)
Hor Blank Start
                    = 7.799:
                                      // (usec)
                                                        175 \text{ chars} =
                                                                       1400 Pixels
Hor Blank Time
                                                         64 \text{ chars} =
                                                                         512 Pixels
                    = 2.852;
                                      // (usec)
                                                 =
Hor Sync Start
                     = 8.379:
                                      // (usec)
                                                        188 \text{ chars} =
                                                                       1504 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                 =
// H Front Porch
                    = 0.579:
                                      // (usec)
                                                 =
                                                         13 chars =
                                                                         104 Pixels
Hor Svnc Time
                    = 0.847:
                                      // (usec)
                                                         19
                                                            chars =
                                                                         152 Pixels
// H Back Porch
                    = 1.426;
                                      // (usec)
                                                         32 chars =
                                                                         256 Pixels
                                                 =
// H Left Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (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 ***

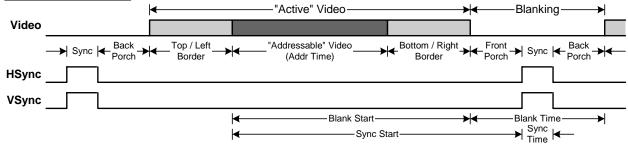
Resolution: 1440 x 900 at 60 Hz (non-interlaced) REDUCED BLANKING

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
                                      // Pixels
                    = 1440:
Ver Pixels
                                      // Lines
                    = 900:
Hor Frequency
                    = 55.469;
                                      // KHz
                                                        18.0 usec
                                                                    / line
Ver Frequency
                    = 59.901:
                                      // Hz
                                                        16.7 msec
                                                                    / frame
                    = 88.750:
                                                                      +0.5%
Pixel Clock
                                      // 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
                                                                        1440 Pixels
                    = 16.225;
                                      // (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
                                                            chars =
                                                                        1488 Pixels
// H Right Border
                    = 0.000;
                                      // (usec)
                                                             chars =
                                                                            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;
                                                            chars =
                                                                          80 Pixels
                                      // (usec)
                                                         10
// H Left Border
                    = 0.000;
                                      // (usec)
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                    = 16.694;
Ver Total Time
                                                        926 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
                                                        900 lines
Ver Addr Time
                    = 16.225:
                                      // (msec)
                                                                           = 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 Svnc 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)

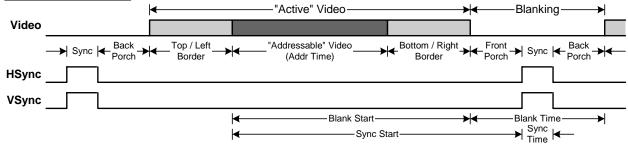
EDID ID: 95h, 00h

BIOS Modes: n/a

Method: CVT Compliant

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

```
Timing Name
                    = 1.30MA @ 60Hz (1440x900);
Hor Pixels
                    = 1440:
                                      // Pixels
Ver Pixels
                                      // Lines
                    = 900:
Hor Frequency
                    = 55.935:
                                      // KHz
                                                       17.9 usec
                                                                   / line
Ver Frequency
                    = 59.887;
                                      // Hz
                                                       16.7 msec
                                                                   / frame
                    = 106.500:
                                                                      +0.5%
Pixel Clock
                                      // 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
Hor Total Time
                    = 17.878;
                                      // (usec)
                                                        238 chars =
                                                                       1904 Pixels
Hor Addr Time
                                                                       1440 Pixels
                    = 13.521;
                                      // (usec)
                                                        180 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
                                                            chars =
                                                                       1520 Pixels
// H Right Border
                    = 0.000;
                                      // (usec)
                                                          0
                                                            chars =
                                                                           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
                                                            chars =
                                                                         232 Pixels
                    = 2.178;
                                      // (usec)
// H Left Border
                    = 0.000;
                                      // (usec)
                                                 =
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                    = 16.698;
Ver Total Time
                                                        934 lines
                                                                      HT - (1.06xHA)
                                      // (msec)
Ver Addr Time
                    = 16.090:
                                      // (msec)
                                                        900 lines
                                                                           = 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 lines
                    = 0.000:
                                      // (msec)
// V Front Porch
                    = 0.054;
                                      // (msec)
                                                          3 lines
                                                 =
Ver Svnc 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)

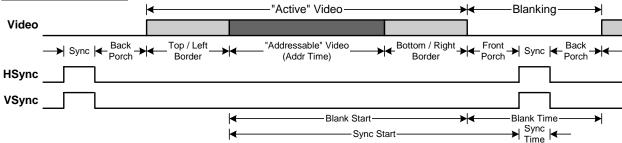
EDID ID: 95h, 0Fh

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;
Pixel Clock
                                       // MHz
                                                         7.3 nsec
                                                                       \pm 0.5\%
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:
                                       // (usec)
                                                         242 \text{ chars} =
                                                                         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
// H Back Porch
                                                                          248 Pixels
                     = 1.814;
                                       // (usec)
                                                          31 chars =
// H Left Border
                                                                            0 Pixels
                     = 0.000:
                                       // (usec)
                                                  =
                                                           \mathbf{0} chars =
Ver Total Time
                     = 13.336:
                                                         942 lines
                                                                       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:
                                                  =
                                                           0 lines
                                       // (msec)
// 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)

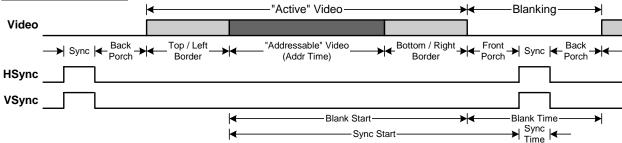
EDID ID: 95h, 19h

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 Sync 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
                                                                         256 Pixels
                     = 1.631;
                                      // (usec)
                                                         32 chars =
// H Left Border
                                                                            0 Pixels
                     = 0.000:
                                      // (usec)
                                                  =
                                                          \mathbf{0} chars =
Ver Total Time
                     = 11.787:
                                                        948 lines
                                                                      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;
                                                  =
                                                           0 lines
                                      // (msec)
// 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)

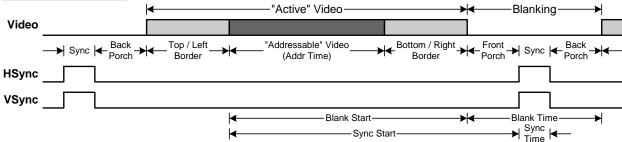
EDID ID: 0A9h, 040h

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
                                       // MHz
                                                          6.2 nsec
                                                                        \pm 0.5\%
                     = 162.000;
Character Width
                                       // Pixels
                                                        49.4 nsec
                     = 8;
Scan Type
                     = NONINTERLACED;
                                                          // H Phase =
                                                                           5.6 %
Hor Sync Polarity
                     = POSITIVE:
                                       // HBlank =
                                                      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)
                                                                         1600 Pixels
                     = 9.877;
                                                         200 \text{ chars} =
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
                                                              chars =
                                                                         1664 Pixels
// H Right Border
                     = 0.000:
                                                           0
                                                              chars =
                                                                             0 Pixels
                                       // (usec)
// 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
                                                           \mathbf{0} chars =
                                                                             0 Pixels
                     = 0.000;
                                       // (usec)
                                                   =
Ver Total Time
                     = 16.667;
                                                        1250 lines
                                                                       HT - (1.06xHA)
                                       // (msec)
Ver Addr Time
                                                        1200 lines
                                                                             = 2.86
                     = 16.000;
                                       // (msec)
                                                   =
Ver Blank Start
                     = 16.000;
                                       // (msec)
                                                   =
                                                        1200 lines
Ver Blank Time
                                       // (msec)
                                                          50 lines
                     = 0.667;
Ver Sync Start
                     = 16.013;
                                       // (msec)
                                                   =
                                                        1201 lines
// V Bottom Border
                     = 0.000;
                                                           0 lines
                                       // (msec)
                                                   =
// 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)

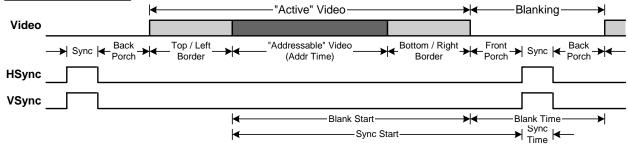
EDID ID: 0A9h, 045h

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:
                                                  =
Ver Sync Polarity
                                                       4.0% of VTotal
                    = POSITIVE;
                                      // VBlank
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;
                                                             chars =
                                                                         560 Pixels
                                      // (usec)
Hor Sync Start
                                                             chars =
                                                                        1664 Pixels
                    = 9.481;
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                             chars =
                                                                            0 Pixels
                                      // (usec)
                                                  =
                                                           0
// 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)

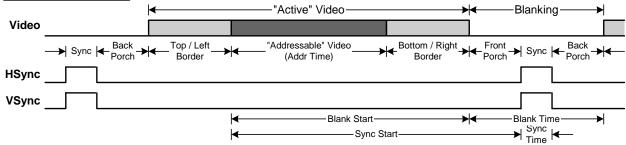
EDID ID: 0A9h, 04Ah

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
Timing Name
                    = 1600 x 1200 @ 70Hz:
Hor Pixels
                                      // Pixels
                    = 1600:
Ver Pixels
                    = 1200;
                                      // Lines
                    = 87.500;
                                      // KHz
                                                        11.4 usec
Hor Frequency
                                                                    / 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:
                                                  =
Ver Sync Polarity
                                                       4.0% of VTotal
                    = POSITIVE;
                                      // VBlank
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
                                                  =
                                                         70
Hor Blank Time
                    = 2.963;
                                                             chars =
                                                                         560 Pixels
                                      // (usec)
Hor Sync Start
                                                             chars =
                                                                        1664 Pixels
                    = 8.804;
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                             chars =
                                                                            0 Pixels
                                      // (usec)
                                                  =
                                                           0
// 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)

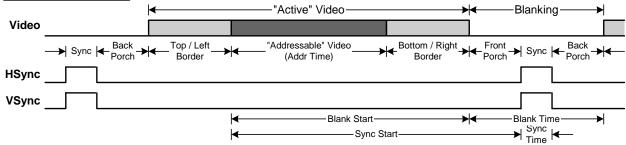
EDID ID: 0A9h, 04Fh

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
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:
                                                  =
Ver Sync Polarity
                                                       4.0% of VTotal
                     = POSITIVE;
                                      // VBlank
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
                                                  =
                                                         70
Hor Blank Time
                     = 2.765;
                                                              chars =
                                                                          560 Pixels
                                      // (usec)
Hor Sync Start
                                                              chars =
                                                                         1664 Pixels
                     = 8.217;
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                              chars =
                                                                            0 Pixels
                                      // (usec)
                                                  =
                                                           0
// 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)

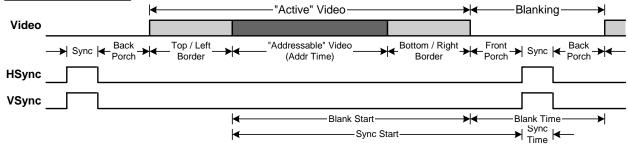
EDID ID: 0A9h, 059h

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:
                                                  =
Ver Sync Polarity
                                                       4.0% of VTotal
                                      // 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
                                                  =
                                                         70
Hor Blank Time
                    = 2.440;
                                                             chars =
                                                                         560 Pixels
                                      // (usec)
Hor Sync Start
                    = 7.251;
                                                             chars =
                                                                        1664 Pixels
                                      // (usec)
                                                        208
                                                  =
// H Right Border
                     = 0.000:
                                                             chars =
                                                                            0 Pixels
                                      // (usec)
                                                  =
                                                           0
// 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 ***

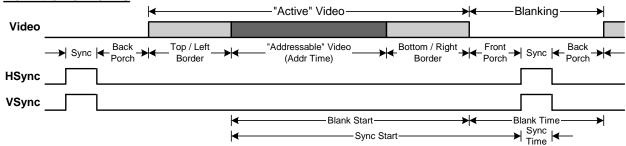
Resolution: 1680 x 1050 at 60 Hz (non-interlaced) REDUCED BLANKING

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
Hor Frequency
                     = 64.674;
                                      // KHz
                                                        15.5 usec
                                                                    / line
Ver Frequency
                     = 59.883;
                                                        16.7 msec
                                                                    / frame
                                      // Hz
                                                  =
                     = 119.000:
Pixel Clock
                                      // MHz
                                                         8.4 nsec
                                                                      \pm 0.5\%
Character Width
                     = 8;
                                      // Pixels
                                                       67.2 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          0.9 %
Hor Sync Polarity
                     = POSITIVE:
                                      // HBlank
                                                       8.7% of HTotal
Ver Sync Polarity
                     = NEGATIVE
                                      // VBlank =
                                                       2.8% of VTotal
Hor Total Time
                     = 15.462;
                                      // (usec)
                                                        230 chars =
                                                                        1840 Pixels
Hor Addr Time
                     = 14.118;
                                      // (usec)
                                                        210 \text{ chars} =
                                                                        1680 Pixels
Hor Blank Start
                     = 14.118:
                                      // (usec)
                                                        210
                                                             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:
                                                             chars =
                                                                          48 Pixels
                                      // (usec)
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 =
                                                  =
Ver Total Time
                     = 16.699:
                                      // (msec)
                                                       1080 lines
                                                                      HT - (1.06xHA)
                                                       1050 lines
                     = 16.235:
Ver Addr Time
                                      // (msec)
                                                                            = 0.5
Ver Blank Start
                     = 16.235:
                                      // (msec)
                                                       1050 lines
                                                  =
Ver Blank Time
                     = 0.464:
                                                         30 lines
                                      // (msec)
Ver Sync Start
                     = 16.282:
                                      // (msec)
                                                       1053 lines
// 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)

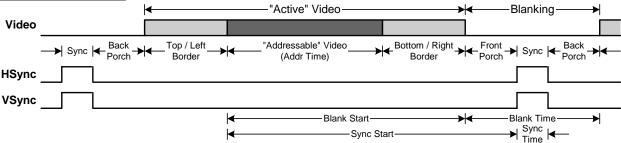
EDID ID: B3h, 00h

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;
                                                                     / frame
                                      //Hz
                                                        16.7 msec
                                                  =
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 Sync Polarity
                     = NEGATIVE
                                      // HBlank =
                                                      25.0% of HTotal
Ver Sync Polarity
                     = POSITIVE:
                                      // VBlank =
                                                       3.6% of VTotal
Hor Total Time
                     = 15.316;
                                       // (usec)
                                                         280 \text{ chars} =
                                                                        2240 Pixels
Hor Addr Time
                     = 11.487;
                                      // (usec)
                                                         210 \text{ chars} =
                                                                        1680 Pixels
                     = 11.487:
Hor Blank Start
                                       // (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)
                                                             chars =
                                                                            0 Pixels
                                                           0
// H Front Porch
                     = 0.711:
                                      // (usec)
                                                          13
                                                             chars =
                                                                          104 Pixels
                                                  =
Hor Svnc Time
                     = 1.203:
                                       // (usec)
                                                          22
                                                             chars =
                                                                          176 Pixels
// H Back Porch
                                                          35
                                                             chars =
                                                                          280 Pixels
                     = 1.915;
                                      // (usec)
// 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
                                                       1050 lines
                                                                            = 3.14
                     = 16.082:
                                       // (msec)
                                                  =
Ver Blank Start
                     = 16.082;
                                      // (msec)
                                                  =
                                                       1050 lines
Ver Blank Time
                     = 0.597;
                                                          39 lines
                                       // (msec)
                                                  =
Ver Sync Start
                     = 16.128;
                                      // (msec)
                                                  =
                                                        1053 lines
// V Bottom Border
                    = 0.000:
                                                           0 lines
                                      // (msec)
                                                  =
// 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)

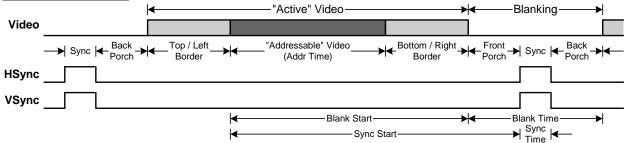
EDID ID: B3h, 0Fh

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
                                      // Lines
                     = 1050:
Hor Frequency
                     = 82.306;
                                       // KHz
                                                        12.1 usec
                                                                     / line
Ver Frequency
                     = 74.892;
                                                        13.4 msec
                                                                     / frame
                                      //Hz
                                                  =
                     = 187.000:
Pixel Clock
                                      // MHz
                                                         5.3 nsec
                                                                       \pm 0.5\%
Character Width
                                       // Pixels
                                                        42.8 nsec
                     = 8:
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          3.9 %
Hor Sync Polarity
                     = NEGATIVE
                                      // HBlank =
                                                      26.1% of HTotal
Ver Sync Polarity
                     = POSITIVE;
                                      // VBlank =
                                                       4.5% of VTotal
Hor Total Time
                     = 12.150:
                                       // (usec)
                                                         284 \text{ chars} =
                                                                        2272 Pixels
Hor Addr Time
                     = 8.984;
                                      // (usec)
                                                         210 \text{ chars} =
                                                                        1680 Pixels
Hor Blank Start
                     = 8.984:
                                      // (usec)
                                                         210 \text{ chars} =
                                                                         1680 Pixels
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)
                                                             chars =
                                                                            0 Pixels
                                                           0
// 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;
                                                              chars =
                                                                          296 Pixels
                                      // (usec)
                                                          37
// 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;
                                                           0 lines
                                      // (msec)
                                                  =
// 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)

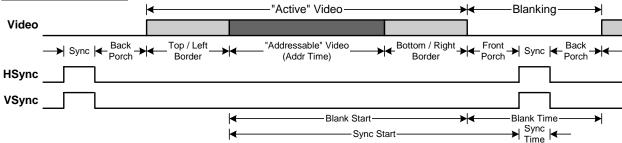
EDID ID: B3h, 19h

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
                                       // Lines
                     = 1050:
Hor Frequency
                     = 93.859;
                                       // KHz
                                                         10.7 usec
                                                                     / line
Ver Frequency
                     = 84.941;
                                                                     / frame
                                       //Hz
                                                        11.8 msec
                                                  =
Pixel Clock
                     = 214,750:
                                       // MHz
                                                         4.7 nsec
                                                                       \pm 0.5\%
Character Width
                                       // Pixels
                                                        37.3 nsec
Scan Type
                     = NONINTERLACED;
                                                         // H Phase =
                                                                           3.8 %
Hor Sync Polarity
                     = NEGATIVE
                                      // HBlank =
                                                      26.6% of HTotal
Ver Sync Polarity
                     = POSITIVE:
                                      // VBlank =
                                                       5.0% of VTotal
Hor Total Time
                     = 10.654:
                                       // (usec)
                                                         286 \text{ chars} =
                                                                         2288 Pixels
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)
                                                              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
                                                              chars =
                                                                          304 Pixels
                     = 1.416;
                                       // (usec)
// H Left Border
                                                                            0 Pixels
                     = 0.000:
                                       // (usec)
                                                           \mathbf{0} chars =
                                                        1105 lines
Ver Total Time
                     = 11.773:
                                                                       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
                                                          55 lines
                     = 0.586;
                                       // (msec)
                                                  =
Ver Sync Start
                     = 11.219;
                                       // (msec)
                                                  =
                                                        1053 lines
// V Bottom Border
                     = 0.000:
                                                           0 lines
                                       // (msec)
                                                  =
// 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)

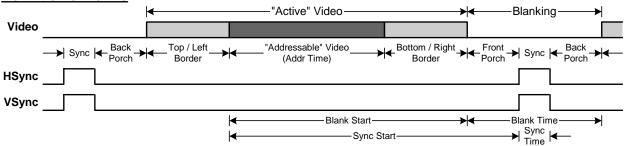
EDID ID: 0C1h, 040h

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
                     = 83.640;
                                      // KHz
                                                                    / line
Hor Frequency
                                                        12.0 usec
                                                  =
Ver Frequency
                     = 60.000;
                                                        16.7 msec
                                      // Hz
                                                                      frame
Pixel Clock
                    = 204.750;
                                      // MHz
                                                         4.9 nsec
                                                                      \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 \text{ 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
                                                        240 chars =
                                                                        1920 Pixels
Hor Sync Start
                     = 9.377;
                                      // (usec)
// H Right Border
                     = 0.000;
                                      // (usec)
                                                          0
                                                             chars =
                                                                           0 Pixels
// H Front Porch
                                                             chars =
                                                                         128 Pixels
                    = 0.625:
                                      // (usec)
                                                         16
                                                  =
Hor Sync Time
                     = 0.977;
                                      // (usec)
                                                         25
                                                             chars =
                                                                         200 Pixels
// H Back Porch
                                                                         328 Pixels
                    = 1.602;
                                      // (usec)
                                                         41
                                                             chars =
                                                  =
                    = 0.000;
// H Left Border
                                                                           0 Pixels
                                      // (usec)
                                                  =
                                                          0
                                                             chars =
Ver Total Time
                    = 16.667;
                                      // (msec)
                                                       1394 lines
                                                                      HT - (1.06xHA)
                                                  =
Ver Addr Time
                                                       1344 lines
                                                                           = 2.68
                    = 16.069;
                                      // (msec)
Ver Blank Start
                    = 16.069;
                                      // (msec)
                                                  =
                                                       1344 lines
Ver Blank Time
                    = 0.598;
                                      // (msec)
                                                         50 lines
Ver Sync Start
                    = 16.081;
                                      // (msec)
                                                  =
                                                       1345 lines
// V Bottom Border
                    = 0.000:
                                      // (msec)
                                                          0 lines
                                                  =
// V Front Porch
                                                          1 lines
                     = 0.012:
                                      // (msec)
Ver Svnc Time
                     = 0.036:
                                      // (msec)
                                                          3 lines
// V Back Porch
                                                         46 lines
                     = 0.550:
                                      // (msec)
// V Top Border
                    = 0.000;
                                      // (msec)
                                                          0 lines
```



Adopted: 9/17/98

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

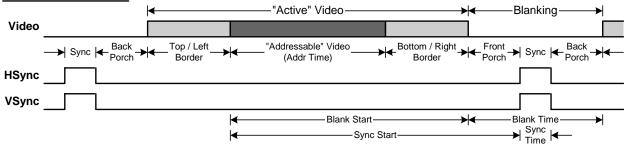
EDID ID: 0C1h, 04Fh

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
                                                             chars =
                                                                        2456 Pixels
Hor Addr Time
                    = 6.866:
                                      // (usec)
                                                        224
                                                             chars =
                                                                        1792 Pixels
Hor Blank Start
                    = 6.866;
                                                        224 chars =
                                                                        1792 Pixels
                                      // (usec)
                                                  =
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)
                                                         27
                                                             chars =
                                                                         216 Pixels
                                                  =
// H Back Porch
                    = 1.349;
                                      // (usec)
                                                  =
                                                         44
                                                             chars =
                                                                         352 Pixels
// H Left Border
                    = 0.000;
                                      // (usec)
                                                             chars =
                                                                           0 Pixels
                                                          0
                                                  =
Ver Total Time
                    = 13.334;
                                      // (msec)
                                                       1417 lines
                                                                      HT - (1.06xHA)
                                                  =
Ver Addr Time
                    = 12.647:
                                                       1344 lines
                                                                           = 2.13
                                      // (msec)
                                                  =
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)

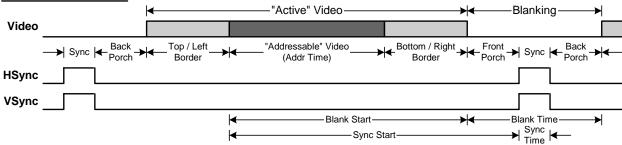
EDID ID: 0C9h, 040h

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 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)
                                                  =
                                                           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;
                                                              chars =
                                                                            0 Pixels
                                       // (usec)
                                                           0
                                                  =
Ver Total Time
                     = 16.668;
                                       // (msec)
                                                        1439 lines
                                                                       HT - (1.06xHA)
                                                  =
Ver Addr Time
                     = 16.124:
                                                        1392 lines
                                                                            = 2.57
                                       // (msec)
                                                  =
Ver Blank Start
                                       // (msec)
                                                        1392 lines
                     = 16.124;
                                                  =
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
                     = 0.498;
                                                          43 lines
                                       // (msec)
// V Top Border
                     = 0.000:
                                       // (msec)
                                                           0 lines
```



Adopted: 9/17/98

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

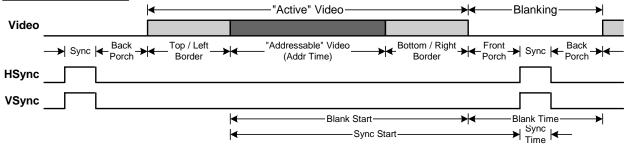
EDID ID: 0C9h, 04Fh

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
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:
                                                       1392 lines
                                                                           = 2.06
                                      // (msec)
                                                  =
                                                       1392 lines
Ver Blank Start
                     = 12.373;
                                      // (msec)
                                                  =
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

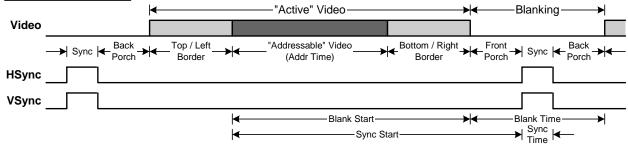
Resolution: 1920 x 1200 at 60 Hz (non-interlaced) REDUCED BLANKING

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
Pixel Clock
                    = 154.000:
                                      // MHz
                                                        6.5 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       51.9 nsec
                    = 8;
Scan Type
                                                        // H Phase =
                                                                         0.8 %
                    = NONINTERLACED;
Hor Sync Polarity
                    = POSITIVE:
                                      // HBlank =
                                                      7.7% of HTotal
Ver Sync Polarity
                    = NEGATIVE // VBlank =
                                                      2.8% of VTotal
Hor Total Time
                    = 13.506:
                                                        260 chars =
                                                                       2080 Pixels
                                      // (usec)
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;
                                                         20 \text{ chars} =
                                                                        160 Pixels
                                      // (usec)
                                                 =
Hor Sync Start
                    = 12.779:
                                      // (usec)
                                                       246 \text{ chars} =
                                                                       1968 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
// H Front Porch
                    = 0.312:
                                      // (usec)
                                                 =
                                                          6 \text{ chars} =
                                                                          48 Pixels
Hor Svnc 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)
Ver Total Time
                                                      1235 lines
                                                                      HT - (1.06xHA)
                    = 16.681:
                                      // (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
Ver Frequency
                    = 59.885;
                                      // Hz
                                                       16.7 msec
                                                                   / frame
Pixel Clock
                    = 193.250:
                                      // MHz
                                                        5.2 nsec
                                                                      +0.5\%
Character Width
                                      // Pixels
                                                       41.4 nsec
                    = 8;
Scan Type
                                                        // H Phase =
                                                                         3.9 %
                    = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     25.9% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                      3.6% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 13.413:
                                      // (usec)
                                                        324 \text{ chars} =
                                                                       2592 Pixels
Hor Addr Time
                                                        240 chars =
                                                                       1920 Pixels
                    = 9.935:
                                      // (usec)
Hor Blank Start
                    = 9.935;
                                                        240 \text{ chars} =
                                                                       1920 Pixels
                                      // (usec)
Hor Blank Time
                                                         84 \text{ chars} =
                                                                        672 Pixels
                    = 3.477;
                                      // (usec)
                                                 =
Hor Sync Start
                    = 10.639:
                                      // (usec)
                                                       257 \text{ chars} =
                                                                       2056 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                 =
// H Front Porch
                    = 0.704:
                                      // (usec)
                                                 =
                                                         17 chars =
                                                                         136 Pixels
Hor Svnc 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
                                                      1245 lines
                                                                      HT - (1.06xHA)
                    = 16.699:
                                      // (msec)
Ver Addr Time
                    = 16.095:
                                      // (msec)
                                                      1200 lines
                                                                           = 2.88
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
                                                       // H Phase =
                                                                        4.0 %
                    = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                    26.4% of HTotal
Ver Sync Polarity
                                     // VBlank =
                                                     4.4% of VTotal
                    = POSITIVE;
Hor Total Time
                    = 10.634:
                                                       326 chars =
                                                                      2608 Pixels
                                     // (usec)
Hor Addr Time
                    = 7.829:
                                                       240 chars =
                                                                      1920 Pixels
                                     // (usec)
Hor Blank Start
                    = 7.829:
                                                       240 \text{ chars} =
                                                                      1920 Pixels
                                     // (usec)
Hor Blank Time
                    = 2.805;
                                                        86 chars =
                                                                        688 Pixels
                                     // (usec)
                                                 =
Hor Sync Start
                    = 8.383:
                                     // (usec)
                                                       257 chars =
                                                                      2056 Pixels
// H Right Border
                    = 0.000:
                                                         \mathbf{0} chars =
                                                                          0 Pixels
                                     // (usec)
                                                 =
// H Front Porch
                    = 0.555:
                                     // (usec)
                                                 =
                                                        17 chars =
                                                                        136 Pixels
Hor Sync Time
                    = 0.848:
                                                        26 chars =
                                                                        208 Pixels
                                     // (usec)
// 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)
Ver Addr Time
                    = 12.761:
                                     // (msec)
                                                      1200 lines
                                                                          = 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
                                      // Lines
                    = 1200:
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
                                                        // H Phase =
                                                                         4.0 %
                     = NONINTERLACED;
Hor Sync Polarity
                    = NEGATIVE // HBlank =
                                                     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
                                                        240 \text{ chars} =
                                                                        1920 Pixels
                    = 6.827:
                                      // (usec)
Hor Blank Start
                    = 6.827:
                                                        240 \text{ chars} =
                                                                        1920 Pixels
                                      // (usec)
Hor Blank Time
                    = 2.503;
                                                         88 \text{ chars} =
                                                                         704 Pixels
                                      // (usec)
                                                  =
Hor Sync Start
                     = 7.339:
                                      // (usec)
                                                        258 \text{ chars} =
                                                                        2064 Pixels
// H Right Border
                    = 0.000:
                                                          \mathbf{0} chars =
                                                                           0 Pixels
                                      // (usec)
                                                  =
// H Front Porch
                    = 0.512:
                                      // (usec)
                                                  =
                                                         18 \text{ chars} =
                                                                         144 Pixels
Hor Svnc Time
                    = 0.740:
                                                         26 chars =
                                                                         208 Pixels
                                      // (usec)
// 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)
Ver Addr Time
                    = 11.196;
                                      // (msec)
                                                       1200 lines
                                                                           = 2.09
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)

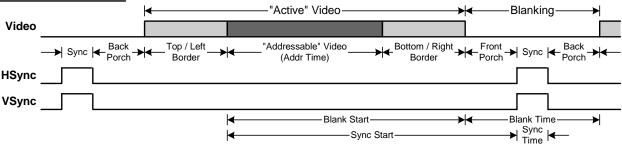
EDID ID: 0D1h, 040h

BIOS Modes: n/a

Method: *** NOT CVT COMPLIANT ***

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

```
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
                     = NONINTERLACED;
                                                         // H Phase =
                                                                          4.2 %
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 chars =
                                                                         2600 Pixels
Hor Addr Time
                     = 8.205:
                                       // (usec)
                                                         240
                                                              chars =
                                                                         1920 Pixels
Hor Blank Start
                     = 8.205;
                                                         240 \text{ chars} =
                                       // (usec)
                                                                         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;
                                                           \mathbf{0} chars =
                                                                            0 Pixels
                                       // (usec)
                                                  =
Ver Total Time
                     = 16.667;
                                                       1500 lines
                                                                       HT - (1.06xHA)
                                       // (msec)
                                                  =
Ver Addr Time
                     = 16.000:
                                                       1440 lines
                                                                            = 2.41
                                       // (msec)
                                                  =
Ver Blank Start
                     = 16.000;
                                       // (msec)
                                                       1440 lines
                                                  =
Ver Blank Time
                     = 0.667;
                                       // (msec)
                                                  =
                                                          60 lines
Ver Sync Start
                     = 16.011;
                                       // (msec)
                                                        1441 lines
// V Bottom Border
                                                           0 lines
                     = 0.000;
                                       // (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:
                                       // (msec)
                                                           0 lines
```



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\%
Character Width
                     = 8:
                                       // Pixels
                                                   =
                                                         26.9 nsec
Scan Type
                     = NONINTERLACED;
                                                          // H Phase =
                                                                           3.9 %
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
                                                         240 \text{ chars} =
                                                                          1920 Pixels
                     = 6.465;
                                       // (usec)
                                                   =
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;
                                                            \mathbf{0} chars =
                                                                             0 Pixels
                                       // (usec)
                                                   =
Ver Total Time
                     = 13.333;
                                                        1500 lines
                                                                        HT - (1.06xHA)
                                       // (msec)
                                                   =
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:
                                       // (msec)
                                                            0 lines
```

