

VESA MONITOR TIMING STANDARD

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)

Video Display Information Format (VDIF)

PreAdjusted Timing Data

Timing Name	= 800 x 600 @ 60Hz;			
Hor Pixels	= 800;	// Pixels		
Ver Pixels	= 600;	// Lines		
Hor Frequency	= 37.879;	// KHz	= 26.4 usec	/ line
Ver Frequency	= 60.317;	// Hz	= 16.6 msec	/ frame
Pixel Clock	= 40.000;	// MHz	= 25.0 nsec	± 0.5%
Character Width	= 8;	// Pixels	= 200.0 nsec	
Scan Type	= NONINTERLACED;	// H Phase	= 2.3 %	
Hor Sync Polarity	= POSITIVE;	// HBlank	= 24.2% of HTotal	
Ver Sync Polarity	= POSITIVE;	// VBlank	= 4.5% of VTotal	
Hor Total Time	= 26.400;	// (usec)	= 132 chars	= 1056 Pixels
Hor Addr Time	= 20.000;	// (usec)	= 100 chars	= 800 Pixels
Hor Blank Start	= 20.000;	// (usec)	= 100 chars	= 800 Pixels
Hor Blank Time	= 6.400;	// (usec)	= 32 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	= 1.000;	// (usec)	= 5 chars	= 40 Pixels
Hor Sync Time	= 3.200;	// (usec)	= 16 chars	= 128 Pixels
// H Back Porch	= 2.200;	// (usec)	= 11 chars	= 88 Pixels
// H Left Border	= 0.000;	// (usec)	= 0 chars	= 0 Pixels
Ver Total Time	= 16.579;	// (msec)	= 628 lines	HT – (1.06xHA)
Ver Addr Time	= 15.840;	// (msec)	= 600 lines	= 5.2
Ver Blank Start	= 15.840;	// (msec)	= 600 lines	
Ver Blank Time	= 0.739;	// (msec)	= 28 lines	
Ver Sync Start	= 15.866;	// (msec)	= 601 lines	
// V Bottom Border	= 0.000;	// (msec)	= 0 lines	
// V Front Porch	= 0.026;	// (msec)	= 1 lines	
Ver Sync Time	= 0.106;	// (msec)	= 4 lines	
// V Back Porch	= 0.607;	// (msec)	= 23 lines	
// V Top Border	= 0.000;	// (msec)	= 0 lines	

Definition of Terms

