

High Definition Color Monitors

HTM3203/2003D/ HTM1003



The HTM3203/2003D/1003 are High Definition Color Monitors developed with Ikegami's technological know-how, acquired through years of HDV research.

The HTM3203/2003D/1003's exceptional performance meets all video criteria, including high-fidelity video reproduction, stability, and operating flexibility, demonstrating the value of HDTV.

The system such as 1920 x 1080/59.94/2:1, the picture height and the vertical position can be monitored by adjustment.

HTM3203/2003D/1003



HTM3203 32-inch HD Monitor



HTM2003D 20-inch HD Monitor



HTM1003 10-inch HD Monitor

■ Features

- High Definition in-line gun, dot mask CRT (mask pitch 0.34mm for HTM3203, 0.28mm for HTM2003D, 0.28mm for HTM1003) assures Horizontal resolution of 1000Tvlines for HTM3203, 900TV lines for HTM2003D(at 1125mode) 500TV lines for HTM1003.
- The circuits are all digitally controlled with 10 bit D/A converter (HTM3203/2003D).
- Three different Color temperatures can be placed in memory: 6500°K, 9300°K are standard, and another of your choice (HTM3203/2003D).
- Beam Feedback System provides long-term white balance stability.
- Two Y/Pb/Pr inputs or two RGB inputs are front panel selectable.
- Two SYNC/HD inputs and one VD input are also standard (HTM3203/2003D).
- Cross Hatch signal, Window signal (100%) and full-white signal (50%) can be utilized for checking deflection linearity, white balance and purity etc (HTM3203/2003D).
- Degauss and rotation functions permit correction of purity error due to earth's magnetism (Rotation: HTM3203/2003D).
- CRT circuit protects against over-current and over-load, X-ray radiation or CRT burn.
- HTM2003D can be mounted in a 19-inch rack with a 15-3/4-inch height.
- HTM2003D supports automatically both HDTV and NTSC (line-doubled 1050i).
- HTM2003D permits automatic color temperature calibration when used with the ASP-15HD auto setup probe (Option). If a unique color temperature is stored in memory, multiple monitors can be automatically calibrated to the same color temperature.
- The HTM1003 can be operated by both AC and DC power supplies.
- Exclusive models for HD SDI input/output are also available (20-inch: HTM2004, 10-inch: HTM1003).

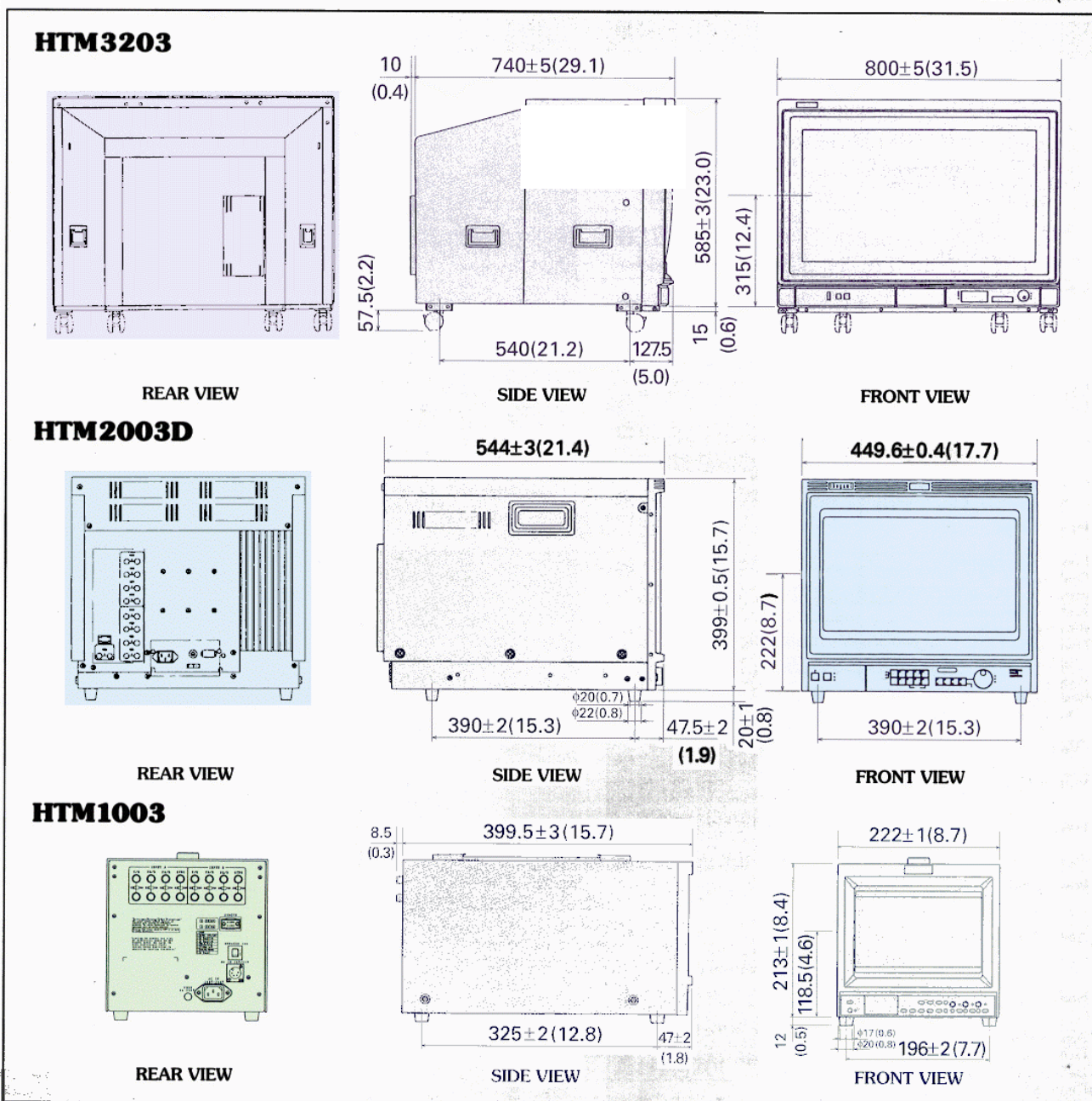
■ Specifications

	HTM3203		HTM2003D		HTM1003		
			<1125 mode>	<1050 mode>			
● Input Signal Format							
Scanning Lines	1125		1125	525 / 1050	1125		
Frames per Second	30		30	60 / 30	30		
Interlace Ratio	2:1		2:1	Non interlace/ interlace 2:1	2:1		
Aspect Ratio	16:9		16:9	16:9 / 4:3	16:9		
Horizontal Scanning Frequency	33.75kHz		33.75kHz	31.5kHz	33.75kHz		
Vertical Scanning Frequency	60Hz		60Hz	59.94Hz	60Hz		
● Input Signal Types							
Video	R,G,B	2ch	selectable on front panel	2ch	selectable on front panel	2ch	selectable on front panel
	Y,Pb,Pr	2ch		2ch	Impossible	2ch	
Sync	SYNC/HD	2ch	selectable on front panel	2ch	selectable on front panel	2ch	
	VD	1ch		1ch	Impossible	Impossible	
● Input Signal Level							
Video	Y,G	VS : 1.0Vp-p or V : 0.7Vp-p					
	Pb,Pr	+/- 0.35Vp-p					
Sync	R,B	0.7Vp-p(White signal is positive)					
	SYNC	+/- 0.3Vp-p					
HD,HV	2.0V p-p						
Input Impedance	75 ohm or high impedance bridge connection						
Video Output Level	35Vp-p (CRT drive output level, R-ch video component only)						
CRT	In-line gun dot-type shadow mask high resolution CRT Mask pitch : 0.34mm		In-line gun dot-type shadow mask high resolution CRT Mask pitch : 0.28mm		In-line gun dot-type shadow mask high resolution CRT Mask pitch : 0.28mm		
Screen Size (Wide Screen)	670(W) x 377(H)mm Aspect ratio : 16:9		400(W) x 225(H)mm Aspect ratio : 16:9	300(W) x 225(H)mm Aspect ratio : 4:3	152(W) x 86(H)mm Aspect ratio : 16:9		
Input Voltage	AC100V~120V, 50/ AC200V~240V, 50/ 60Hz, single phase				AC100V~120V 50/60Hz, single phase AC200V~240V, 50/60Hz, single phase DC12/24V		
Power Consumption	450VA or less		400VA or less		90W or less		
Operation	Continuous						
Installation Place	Indoor						
Ambient Temperature	0 degree C ~ 40 degree C(+32degreeF~+104 F)						
Relative Humidity	10% ~ 90%(non-condensing)						
Dimensions (Excluding gum foot)	800(W) x 600(H) x 740(D)mm (31.5 x 23.6 x 29.1 inches)		450(W) x 399(H) x 544(D)mm (17.7 x 15.7 x 21.4 inches)		W222 x H213 x D400mm (8.7 x 8.4 x 15.7 inches)		
Weight	Approx. 80kg		Approx. 40kg		Approx. 11kg		
● Resolution							
Horizontal	(at center)	1000 lines or more		900 lines or more	600 lines or more	500 lines or more	
	(in corner)	800 lines or more		800 lines or more	500 lines or more		
Vertical	(at center)	750 lines or more		660 lines or more	500 lines or more		
	(in corner)	750 lines or more		650 lines or more	400 lines or more		
Voltage Fluctuations	Stable operation is ensured with +/- 10% lines voltage fluctuations referenced to the rated value.						
Frequency Response	With reference to rated output referenced to 500kHz, up to the R, G, B CRT drive				output from the video input terminal		
	60Hz~25MHz : +/- 1dB				60Hz~17MHz +1dB,-3dB		
	25MHz~30MHz : +1dB,-3dB						
	Over 30MHz : Dropping characteristics						
Waveform Distortion	With reference to the rated output, up to the R, G, B CRT drive output from the Sag : 5% or less (with 60Hz square wave signal)				video input terminal		
	Overshoot : 5% or less (with symmetrical square wave signal of line frequency)				of 10nS rise time)		
Aperture Correction	+6dB or more is adjustable at 25MHz ~5MHz with maximum aperture correction level.				+6dB or more is adjustable at 10MHz ~5MHz with maximum aperture correction level.		
Noise	With reference to the rated output, at R, G, B CRT, drive output with video input from				the video input terminal		
	Synchronous : -46dB or more						
	Random : -50dB or more						
	Hum : -50dB or more						
Sync Stability	Stable operation is ensured within +/-6dB referenced to the rated value.						
Deflection Amplitude	Adjustable to the rated picture size with an aspect ratio of 16: 9						
Deflection Distortion	Within +1% of picture height (both deflection linearity and raster distortion)						
● Centering Control							
Horizontal(H)	10mm or more						
Vertical(V)	10mm or more						
● Retrace Time							
Horizontal(H)	12% or less						
Vertical(V)	6% or less						
Hum Oscillation	0.2mm or less						
● High Voltage							
Tolerance	28kV +/- 1kV		27kV +/- 1kV		20kV +/- 1kV		
Regulation	(With reference to 300uA for fluctuations of 0 to 600uA)+/-3 or less		With reference to 100uA for fluctuations of 0 to 300uA +/-3% or less				
Convergence	Inside a circle with diameter 90% of picture height : 0.5mm or less		Inside a circle with diameter of 90% of picture height : 0.4mm or less				
	Inside a circle with diameter 90% of picture width : 0.7mm or less		Inside a circle with diameter of 90% of picture width : 0.5mm or less				
● Memory							
ROM	16K byte						
RAM	2K byte						
Retention period	Approx. 10 years						

HTM3203/2003D/1003

Dimensions

Unit:mm (inch)



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