

DISPLAY MONITOR DIVISION
AVC COMPANY
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

1998.9.29
REV-000a

ENGINEERING SPECIFICATIONS (TENTATIVE)
TX-D9S55 (HV12H 19") DIGITAL MULTI-SCAN CHASSIS

- <FEATURES>
- (1) SHORTER DEPTH WITH LARGE SCREEN
 - (2) FLICKER FREE SCREEN AT 1V 75Hz FOR 1600 x 1200 RESOLUTION
 - (3) ORIGINAL SSP III LSI (Super Signal Processor)
 - (4) HIGH CONTRAST/BRIGHTNESS WITH CRYSTAL PIGMENT PHOSPHOR
 - (5) NEW ON-SCREEN DISPLAY CONTROL (5 LANGUAGES)
 - (6) SELF TEST FUNCTION (NON-CONNECTION WITH COMPUTER)
 - (7) DDC1/2B BASED ON VESA STANDARD
 - (8) POWER MANAGEMENT BASED ON VESA STANDARD WITH 3W MAX.

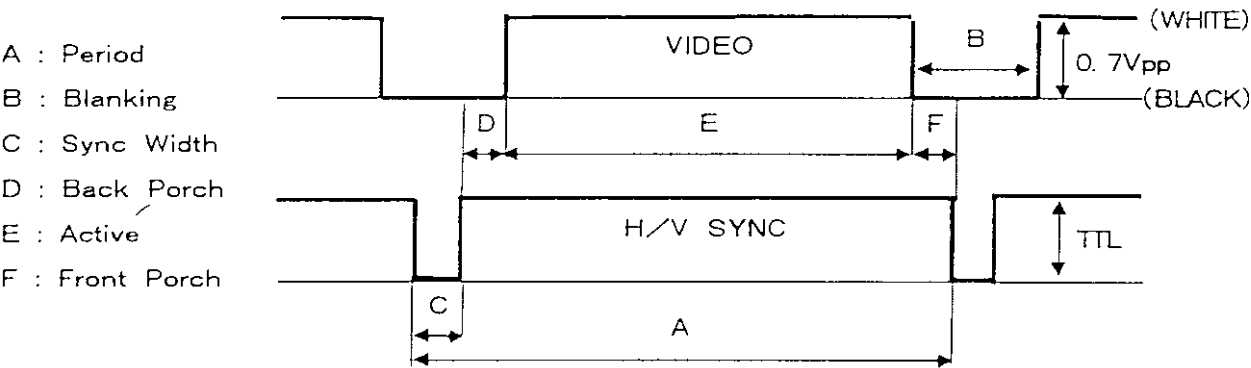
- [1] CRT : TYPE 19" (18.0" Viewable), 0.26mm Dot Pitch, 100Deg, Dia.29mm
PHOSPHOR RGB Medium Short Persistence (Hi-Eu Red), Crystal Pigment
GLASS, SURFACE Dark Tint (TM = 46.0%), Advanced AGRAS Coat
(Anti-Glare, anti-Reflection & Anti-Static)
- [2] INPUT SIGNAL : VIDEO RGB Analog (75 Ohms, 0.7/1.0Vp-p)
SYNC H/V Separate (TTL), H/V Composite (TTL), Sync-on-Green
fH=30 - 97kHz, fV=50 - 180Hz
PRESET MODES 1600 x 1200 (Non-I/L), etc. / Factory : 1+(7) User : 20
H.BLANKING TIME 2.7u sec. (min.)
V.BLANKING TIME 0.5m sec. (min.)
- [3] CONNECTOR : SIGNAL INPUT BNC (x5) & 15Pin mini D-Sub (IBM PS/2 Compatible)
POWER 3-Pin Plug (CEE22)
- [4] POWER : VOLTAGE 90 - 132, 198 - 264Vac (Auto-switching)
CONSUMPTION 125W (typ.)
POWER SAVE VESA Standard (DPMS) Suspend/<=10W, Off/<=3W
- [5] CONTROLS : FRONT Power ON/OFF
OSD Contrast, Brightness, H/V Size, H/V Position, V.Pincushion
Pincushion Balance/Top & Bottom Corner/S-Curve1 & 2
Trapezoid, Parallelogram, Degauss, Color, Video Level, Recall
Input Select, Disp Frequency, H/V Moire, Rotation
OSD Language/Position, Zoom, H/V Convergence, V.Linearity
- [6] VIDEO : VIDEO CLOCK 202MHz (max.)
- [7] MAX. BRIGHTNE:(9300k + 8MPCD) 110 cd/m² (typ.) at White Flat Field
130 cd/m² (typ.) at White Window
- [8] MISCONVERGENCE : 0.3mm (max.) at Center Area
0.4mm (max.) at Corner Area (Factory setting display area)
- [9] DISPLAY AREA : FACTORY SETTING 352(H) x 264(V) mm (typ.)
FULL SCAN 366(H) x 274(V) mm (typ.)
- [10] OPERATING TEMPERATURE 0 - 35Deg. C
CONDITION : HUMIDITY 5 - 90% (Non-condensation)
- [11] DIMENSIONS : 448(W) x 454(H) x 415(D) mm
- [12] WEIGHT : 20.5kg (typ.) (Net)
- [13] SAFETY/REGULATIONS : UL, CSA, TUV/GS, NORDIC, FCC-B, IC-B, CISPR-B, DHHS
HC, PTB, CE, MPR II, TCO'92/'95/'99 (optional)
- [14] OTHERS :

7. 3 STANDARD TIMING

- Following MODE1 is preset in the memory as standard timing at the factory and other 7modes are roughly aligned as RESERVATION TIMING.
- Fig - 1 shows a definition of timing and signal level
- Electrical performance is specified based on MODE1(1280×1024 @85Hz) unless otherwise mentioned.

Fig - 1 : TIMING CHART

< HORIZONTAL / VERTICAL >



1) PRESET TIMING (STANDARD TIMING)

		MODE 1
		VESA Standard 1280×1024 @85Hz
DOT CLOCK		157.500MHz
H O R I Z	fH	91.146kHz
	A-Period	10.971us (1728 dots)
	B-Blanking	2.844us (448 dots)
	C-Sync width	1.016us (160 dots)
	D-Back porch	1.422us (224 dots)
	E-Active	8.127us (1280 dots)
	F-Front porch	0.406us (64 dots)
V E R T	fV	85.024Hz
	A-Period	11.761ms (1072 lines)
	B-Blanking	0.527ms (48 lines)
	C-Sync width	0.033ms (3 lines)
	D-Back porch	0.483ms (44 lines)
	E-Active	11.235ms(1024 lines)
	F-Front porch	0.011ms (1 line)
Sync polarity (H/V)		Positive / Positive

2) RESERVATION TIMING

		MODE 2	MODE 3	MODE 4	MODE 5
		VGA 640×480 @60Hz	VESA Standard 800×600 @85Hz	VESA Standard 1024×768 @85Hz	MAC 1152×870 @75Hz
DOT CLOCK		25.1750MHz	56.250MHz	94.500MHz	100.0000MHz
H O R I Z V E R T	fH	31.469kHz	53.674kHz	68.677kHz	68.681kHz
	A-Period	31.778us (800 dots)	18.631us (1048 dots)	14.561us (1376 dots)	14.560us (1456 dots)
	B-Blanking	6.356us (160 dots)	4.409us (248 dots)	3.725us (352 dots)	3.040us (304 dots)
	C-Sync width	3.813us (96 dots)	1.138us (64 dots)	1.016us (96 dots)	1.280us (128 dots)
	D-Back porch	1.907us (48 dots)	2.702us (152 dots)	2.201us (208 dots)	1.440us (144 dots)
	E-Active	25.422us (640 dots)	14.222us (800 dots)	10.836us (1024 dots)	11.520us (1152 dots)
	F-Front porch	0.636us (16 dots)	0.569us (32 dots)	0.508us (48 dots)	0.320us (32 dots)
fV	fV	59.940Hz	85.061Hz	84.997Hz	75.061Hz
	A-Period	16.683ms (525 lines)	11.756ms (631 lines)	11.765ms (800 lines)	13.322ms (915 lines)
	B-Blanking	1.430ms (45 lines)	0.578ms (31 lines)	0.582ms (32 lines)	0.655ms (45 lines)
	C-Sync width	0.064ms (2 lines)	0.056ms (3 lines)	0.044ms (3 lines)	0.044ms (3 lines)
	D-Back porch	1.049ms (33 lines)	0.503ms (27 lines)	0.524ms (28 lines)	0.568ms (39 lines)
	E-Active	15.253ms (480 lines)	11.179ms (600 lines)	11.183ms (1024 lines)	12.667ms (870 lines)
	F-Front porch	0.318ms (10 lines)	0.019ms (1 line)	0.015ms (1 line)	0.044ms (3 line)
Sync polarity (H/V)		Negative / Negative	Positive / Positive	Positive / Positive	Negative / Negative

		MODE 6	MODE 7	MODE 8
		VESA Standard 1280×1024 @75Hz	VESA Standard 1600×1200 @70z	VESA Standard 1600×1200 @75Hz
DOT CLOCK		135.0000MHz	189.000MHz	202.500MHz
H O R I Z V E R T	fH	79.976kHz	87.500kHz	93.750kHz
	A-Period	12.504us (1688 dots)	11.429us (2160 dots)	10.667us (2160 dots)
	B-Blanking	3.022us (408 dots)	2.963us (560 dots)	2.765us (560 dots)
	C-Sync width	1.067us (144 dots)	1.016us (192 dots)	0.948us (192 dots)
	D-Back porch	1.837us (248 dots)	1.608us (304 dots)	1.501us (304 dots)
	E-Active	9.481us (1280 dots)	8.466us (1600 dots)	7.901us (1600 dots)
	F-Front porch	0.119us (16 dots)	0.339us (64 dots)	0.316us (64 dots)
fV	fV	75.025Hz	70.000Hz	75.000Hz
	A-Period	13.329ms (1066 lines)	14.286ms (1250 lines)	13.333ms (1250 lines)
	B-Blanking	0.525ms (42 lines)	0.571ms (50 lines)	0.533ms (50 lines)
	C-Sync width	0.038ms (3 lines)	0.034ms (3 lines)	0.032ms (3 lines)
	D-Back porch	0.475ms (38 lines)	0.526ms (46 lines)	0.491ms (46 lines)
	E-Active	12.804ms (1024 lines)	13.714ms (1200 lines)	12.800ms (1200 lines)
	F-Front porch	0.013ms (1 line)	0.011ms (1 line)	0.011ms (1 line)
Sync polarity (H/V)		Positive / Positive	Positive / Positive	Positive / Positive

SYM.	DATE	REVISION	SIGNED	CHECKED

FACTORY CONTROL NO. : FVD-99-F003
 FCC ID. : GSS19005

TYPE: C

PART NAME	MATERIAL	COLOR	REMARK
FRONT CABINET	PC+ABS	IVORY	TEXTURE, PRINT COLOR: GRAY
REAR CABINET	PC+ABS	IVORY	TEXTURE
POWER SW	ABS	IVORY	TEXTURE
POWER PILOT LED PC	(GREEN)		
CONTROL BUTTON ABS	IVORY		TEXTURE
9" COLOR SHORT-CRT			
OTTOM CABINET	PC+ABS	IVORY	
BEDESTAL	PC+ABS	IVORY	TEXTURE
EG	URETHANE	BLACK	
C LECEPTACLE		BLACK	
CONNECTOR			ONC (X5) : R, G, B, H/V-SYNC
CONNECTOR			D-SUB Mini15P
OGO BADGE	AL PLATE		
AME PLATE	POSTER SHEET	IVORY	LETTER: BLACK
C CORD			
SCREW COVER	ABS+PVC	IVORY	TEXTURE

☒ M. TOSHI Y. MUTOH NEW JAPAN CO., LTD. 1-1-1, NISHIKI, CHUO-KU, TOKYO 100, JAPAN	PART NO. PS790-2	FILE NO. TX-09555VU
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