

2 Product Specifications

2-1 Specifications

Item	Description	
	AN17JS	AM17JT
Picture Tube	17-Inch (43 cm): 16-inch (40.6 cm) viewable, Flat-face, 90° Deflection, 0.20 mm (Horizontal) Dot pitch, Silica coated with anti-electrostatic properties (TCO: Multilayer coating), Medium-short persistence phosphor	
Scanning Frequency	30 kHz ~ 85 kHz 50 Hz ~ 160 Hz	
Display Colors	Unlimited colors	
Maximum Resolution	1600 Dots 1200 Lines	
Input Video Signal	Analog, 0.7 Vp-p positive at 75 Ω , internally terminated	
Input Sync Signal	Separate Sync: TTL level, positive/negative	
Maximum Pixel Clock rate	185 MHz	
Active Display	Horizontal : 312 mm \pm 4 mm, Vertical : 234 mm \pm 4 mm	
Input Voltage	AC 90 ~ 264 Volts, 60 Hz or 50 Hz \pm 3 Hz	
Power Consumption	90 Watt (max)	
Dimensions (W x D x H) Set Package	15.66 x 16.22 x 15.74 Inches (398 x 412 x 400 mm) 18.77 x 22.12 x 17.99 Inches (477 x 562 x 457 mm)	15.66 x 16.22 x 15.74 Inches (398 x 412 x 400 mm) 20.35 x 22.83 x 18.42 Inches (517 x 580 x 468 mm)
Weight (Net/Gross)	34.61 lbs (15.70 kg) / 38.91 lbs (17.65 kg)	35.71 lbs (16.20 kg) / 41.22 lbs (18.70 kg)
Environmental Considerations	Operating Temperature : 32°F ~ 104°F (0°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Storage Humidity : 5 % ~ 95 %	
<ul style="list-style-type: none">• Above models comply with SWEDAC (MPR II) recommendations for reduced electromagnetic fields.• Designs and specifications are subject to change without prior notice.		

2-2 Pin Assignments

<div>Sync Type</div> <div>Pin No.</div>	Separate	Macintosh
1	Red	GND-R
2	Green	Red
3	Blue	H/V Sync
4	N-C	Sense 0
5	DDC Return	Green
6	GND-R	GND-G
7	GND-G	Sense 1
8	GND-B	Reserved
9	N-C	Blue
10	GND-Sync/Self-raster	Sense 2
11	N-C	GND
12	DDC Data	V-Sync
13	H-Sync	GND-B
14	V-Sync	GND
15	DDC Clock	H-Sync

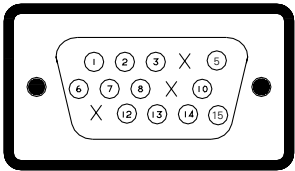


Figure 2-1. Male Type

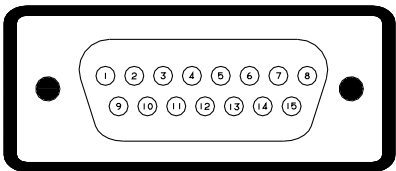


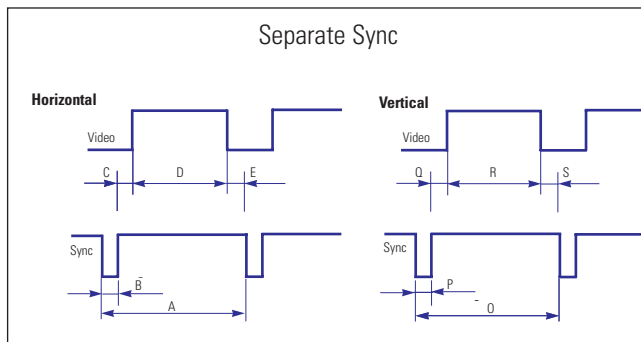
Figure 2-2. Male Type

2-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

Mode Timing	IBM		VESA					
	VGA2/70 Hz 720 x 400	VGA3/60 Hz 640 x 480	640/85 Hz 640 x 480	800/75 Hz 800 x 600	800/85 Hz 800 x 600	1024/75 Hz 1024 x 768	1024/85 Hz 1024 x 768	1280/75 Hz 1280 x 1024
fH (kHz)	31.469	31.469	43.269	46.875	53.674	60.023	68.677	79.976
A μ sec	31.778	31.777	23.111	21.333	18.631	16.660	14.561	12.504
B μ sec	3.813	3.813	1.556	1.616	1.138	1.219	1.016	1.067
C μ sec	1.907	1.907	2.222	3.232	2.702	2.235	2.201	1.837
D μ sec	25.422	25.422	17.778	16.162	14.222	13.003	10.836	9.481
E μ sec	0.636	0.636	1.556	0.323	0.569	0.203	0.508	0.119
fV (Hz)	59.940	70.087	85.008	75.000	85.061	75.029	84.997	75.025
O msec	16.683	14.268	11.764	13.333	11.756	13.328	11.765	13.329
P msec	0.064	0.064	0.671	0.664	0.056	0.050	0.044	0.038
Q msec	1.048	1.080	0.578	0.448	0.503	0.466	0.524	0.475
R msec	15.253	12.711	11.093	12.800	11.179	12.795	11.183	12.804
S msec	0.318	0.413	0.023	0.021	0.019	0.017	0.015	0.013
Clock Frequency (MHz)	25.175	28.322	36.000	49.500	56.250	78.750	94.500	135.000
Polarity								
H.Sync	Negative	Negative	Negative	Negative	Positive	Positive	Positive	Positive
V.Sync	Negative	Positive	Negative	Negative	Positive	Positive	Positive	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate



A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

Memo