

PVM-1954Q/1354Q

Color Video Monitors

- Adopts SMPTE C standard phosphors
- Switchable aspect ratio (4:3 and 16:9)
- Accepts Component (Y, R-Y, B-Y)/RGB signals
- HR CRT assures a high resolution of 600 TV lines
- Beam current feedback circuit for stability in the color balance
- Auto chroma/phase setup
- Optional component serial digital interface kits BKM-101C(video)/102 (audio) available
- On-screen display for adjustment/operation
- User preset function
- Color temperature 6500K/9300K/User preset selectable (3200K to 10000K)
- Underscan, Blue Only and H/V delay mode available
- Accepts external sync
- Caption vision decoder
- Auto/manual degaussing
- Mountable into a 19-inch EIA standard rack with the optional SLR-103



Specifications

CRT performance

CRT type:	HR Trinitron
	Aperture grille (AG) pitch:
	PVM-1954Q: 0.4mm
	PVM-1354Q: 0.25mm
	Center resolution: 600TV lines
	SMPTE C standard phosphor

Screen size:	
PVM-1954Q:	Diagonal 48.1cm (19") Width 38.6cm (15¼") Height 29.0cm (11½")
PVM-1354Q:	Diagonal 33.2cm (13¼") Width 26.8cm (10½") Height 20.1cm (8")

Color temperature:	6500K, 9300K and user preset (3200K to 10000K) is switch selectable (factory preset 6500K)
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Maximum brightness:	154cd/m ² (45fL)
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Raster and picture performance

Normal scan:	4 x 3 aspect ratio, blanked raster <+7%
Underscan:	4 x 3 aspect ratio, approx -5% picture and blanking boundaries are displayed
Linearity of center H & V lines:	
Horizontal:	Less than 8% (typical)
Vertical:	Less than 7% (typical)
Convergence:	
PVM-1954Q:	Zone A: within 0.7mm (typical) Zone B: within 1.3mm (typical)
PVM-1354Q:	Zone A: within 0.6mm (typical) Zone B: within 0.8mm (typical)

Frequency response

RGB:	10MHz(-3dB)
Component (Y/R-Y/B-Y):	9MHz (-3dB)(Y signal)
Composite:	9MHz (-3dB) (Y signal with comb filter)
Y/C input mode:	9MHz (-3dB) (Y signal)

Aperture control

It provides continuous variable control of frequency response from 0 to 6dB gain at 4.5MHz. This control is intended for subjective enhancement of the displayed pictures.

Power inputs

3-pin inlet type power plug	
Power requirements:	AC 100V to 240V (UL approved for 120V operation), 50/60Hz
Power consumption:	
PVM-1954Q:	115W (with BKM-101C/102:125W)
PVM-1354Q:	90W (with BKM-101C/102: 99W)
Remote/Tally inputs:	20-pin connector for input selection, function control and tally control

Audio power output	0.8W, 8Ω, monaural
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Demodulator axes	R-Y and B-Y (perpendicular to each other)
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Synchronization

Vertical hold range:	NTSC: 52 to 60Hz
PAL/SECAM:	42 to 50Hz
Horizontal hold:	Horizontal oscillator locking range Pull in range: ±500Hz
AFC time constants	Set at 1ms

Physical Characteristics

Weight:	
PVM-1954Q:	66 lbs 2 oz (30.0kg) (with BKM-101C/102: 31.0kg (68 lbs 5.5 oz))
PVM-1354Q:	36 lbs 13.1 oz (16.7kg) (with BKM-101C/102: 17.7kg (39 lbs))
Dimensions (WHD):	
PVM-1954Q:	450 x 457.5 x 503mm (17¼" x 18¼" x 19¾")
PVM-1354Q:	346 x 340 x 411.5mm (13½" x 13½" x 16¼")

COLOR VIDEO MONITORS

PVM-1954Q/1354Q (CONTINUED)

Physical Characteristics (CONT)

Environmental:

Operating temperature:	0 to 35°C
Storage temperature:	-10 to 40°
Humidity:	0 to 90% non-condensing
Altitude:	10,000ft (3050m)

Safety regulation

- Complies with UL-1950
- Complies with CSA-22.2 No. 950

Electro magnetic compatibility:

- Complies with FCC rules part 15 class A digital device

X-ray radiation:

- Complies with DHHS rules 21 Subchapter J sec 1020 10

Optional Accessories

BKM-101C

Component serial digital interface kit (video)

BKM-102

Component serial digital interface kit (audio)

BKM-103

Serial remote control kit for RS-422

DMIF-2000

Composite digital monitor interface

TU-1040

Tuner unit

SLR-102

Slide rail (For mounting PVM-1354Q into a 19-inch EIA rack with MB-502B)

SLR-103

Slide rail (For mounting PVM-1954Q into a 19-inch EIA rack)

MB-502B

Rack mounting bracket (For mounting PVM-1354Q into a 19" EIA rack with SLR-102)

Input Facilities

Video Inputs

INPUT SIGNAL	SIGNAL LEVEL	INPUT CONNECTOR TYPE
Line A	1.0Vp-p±6dB	Loop-through BNC Automatic 75Ω termination*2
Line B	1.0Vp-p±6dB	Loop-through BNC Automatic 75Ω termination*2
Line C	Y: 1.0Vp-p±6dB C: (NTSC):0.286Vp-p±6dB (PAL):0.3Vp-p±6dB	Loop-through Mini DIN 4-pin Automatic 75Ω termination*2
RGB/Component*1	Red/R-Y	0.7Vp-p±6dB Automatic 75Ω termination*2
	Green/Y	G: 0.7Vp-p±6dB Sync on G:0.3Vp-p Y:1.0Vp-p±6dB
	Blue/B-Y	0.7Vp-p±6dB Automatic 75Ω termination*2
Sync	4Vp-p±6dB, negative	Loop-through BNC Automatic 75Ω termination*2

*1 RGB/Component (Y/R-Y/B-Y) is switch selectable.

*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

Audio Inputs

INPUT SIGNAL	SIGNAL LEVEL	INPUT CONNECTOR TYPE
Line A	-5dBu	Loop-through Phono High impedance
Line B	-5dBu	Loop-through Phono High impedance
Line C	-5dBu	Loop-through Phono High impedance
RGB/Component	-5dBu	Loop-through Phono High impedance