

SONY

13" Trinitron® Color Video Monitor
PVM-1344Q

PVM-1344Q

Patented Trinitron system with SMPTE Type C color phosphors:
13" picture, measured diagonally

Super Fine Pitch™ tube with 0.25 mm Aperture Grille pitch

600 lines of horizontal resolution, via video inputs:

Accepts PAL, SECAM, NTSC, and NTSC 4.43 video signals

Accepts analog RGB, Y/C video, Y/R-Y/B-Y video &
composite video

Choice of internal or external sync



13" Trinitron® Color Video Monitor PVM-1344Q

With the Sony PVM-1344Q, you can view practically any image from practically anywhere. This versatile monitor is equally at home with any of four different world video standards, analog RGB, component video, Y/C video and composite video sources. Sony's Super Fine Pitch™ Trinitron® picture tube delivers high resolution, bright pictures, and the superbly accurate color rendition of SMPTE Type C color phosphors. All told, the PVM-1344Q is ready for the most critical applications.

Four TV Standards

In today's world, business and communications transcend borders. And so should video monitors. That's why the Sony PVM-1344Q is equipped to handle four of the world's TV color standards: PAL, SECAM, NTSC, and NTSC 4.43. The monitor automatically senses and adjusts for each color system. This makes the PVM-1344Q the perfect partner for a Sony multi-standard VCR. And it makes the monitor suitable for any corporation, advertising agency, or production studio with overseas contacts.

Flexible Inputs

In addition to the familiar composite video inputs, the PVM-1344Q accommodates the latest Betacam® and M-II VTRs with separate BNC connectors for Y/R-Y/B-Y and the latest ED Beta™ and S-VHS VTRs with a DIN connector for Y/C video.

Trinitron® Picture Quality

Among all the color monitors you're considering, there are two kinds of picture tubes—and only two. There's the Sony Trinitron color system. And there's everything else. Only Trinitron has Sony's patented one-gun/one-lens system for superior depth of focus. And only Trinitron has Sony's exclusive Aperture Grille. (Every other color picture tube, regardless of brand, uses the Shadow Mask.)

The Aperture Grille is the secret behind the bright, Trinitron colors. Its special shape enables Sony to use a cylindrical screen for superior geometric accuracy and reduced reflection of ceiling lights. On the PVM-1344Q, the Aperture Grille's Super Fine Pitch™ accounts for extremely fine picture detail.

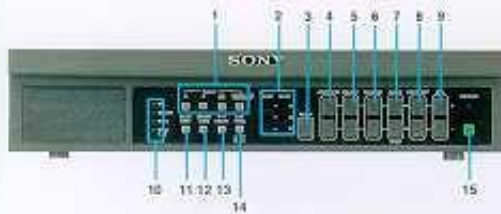
SMPTE Type C Phosphors

The PVM-1344Q shares a feature with Sony's expensive BVM Series broadcast-quality monitors: genuine SMPTE Type C phosphors. Designed to these exacting standards, the monitors permit the most critical evaluation of any color subject.

RGB Computer Inputs

The brightness and geometric accuracy of the Trinitron cylindrical screen, the color precision of SMPTE Type C phosphors and analog RGB inputs combine to make the Sony PVM-1344Q uniquely suited for computer graphics monitoring.

Sony has designed the PVM-1344Q for impressive compatibility with a wide range of computers.* Analog RGB inputs enable the monitor to reproduce 80 razor-sharp computer characters per line, and up to 25 lines per screen—for a total of 2,000 characters. An inexpensive digital-to-analog interface adapts the output of computers with digital RGB outputs, such as the IBM-PC® with a Color Graphics Adaptor (CGA) card.



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|---------------------------------------|-------------------------------|-------------------------------|
| 1 Input Select Buttons | 5 Bright (Brightness) Buttons | 10 Color System Indicators |
| 2 Bias and Gain Adjustment Controls | 6 Chroma Buttons | 11 Blue Only Button |
| 3 Reset Button and Response Indicator | 7 Phase Buttons | 12 Under Scan Button |
| 4 Aperture Buttons | 8 Contrast Buttons | 13 H-V Delay Button |
| | 9 VDL (Volume) Buttons | 14 Ext Sync Button |
| | | 15 Power Switch and Indicator |



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|------------------------------|------------------------------------|------------------------|
| 16 Line A, Line B Connectors | 19 CTR, S Connectors | 22 Audio In Connector |
| 17 Y/C Input Connectors | 20 Analog RGB Component Connectors | 23 V Hold Control |
| 18 VTR Input Connector | 21 EXT Sync Connectors | 24 Color Temp Selector |
| | | 25 Comp/RGB Selector |

Features

Trinitron color system: the patented one-gun/one-lens picture tube that won an Emmy Award for picture quality in 1973; features high geometric accuracy, and high brightness

Super Fine Pitch™ picture tube: 0.25 mm Aperture Grille pitch for superlative resolution

Better than 600 lines horizontal resolution via video inputs; better than 900 x 200 pixels via RGB inputs

SMPTE Type C color phosphors conform to studio standards

Four international video signal standards: automatic sensing and selection of PAL, SECAM, NTSC; and NTSC 4.43

Analog RGB inputs for computer, graphic display; separate BNC connectors for red, green, and blue

Y/R-Y/B-Y component video inputs for editing connection to component VTRs, such as Sony's own Betacam® VTRs (BNC connectors)

Y/C video inputs for high performance with ED Beta™ or S-VHS VCR

2000 color characters (80 columns x 25 lines) via RGB inputs

Three sets of video inputs (A, B, and VTR) for flexibility

Choice of internal or external sync via front-panel switch

Loop-through outputs with auto termination for Line A & B video and audio, Y/R-Y/B-Y and sync allow multiple bridging

Comb filter with improved pulse response preserves the full luminance bandwidth for maximum detail; eliminates color spill

Switchable color temperature: choice of 6500° K for broadcast standard or 9300° K for pleasing picture (preset for 6500° K)

Auto White Balance uses beam feedback control circuit to maintain accurate white through the life of the tube

Underscan switch displays the full active picture area

Pulse Cross: delayed scanning displays horizontal and vertical blanking interval information, sync timing and skew error

Blue only for color and hue adjustment, signal noise evaluation

Gain and bias controls with front panel access for white balance

Control-S input and output for remote operation of phase, chroma, contrast, brightness, aperture, reset and volume

Built-in speaker for audio monitoring

Standard EIA 19" rack mount capability with MB-502A and SLR-102

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PVM-1344Q

Specifications

Color System: PAL, SECAM, NTSC, and NTSC 4.43, systems switched automatically

Picture Tube: Super Fine Pitch™ Trinitron® tube (0.25 mm Aperture Grille pitch), 13-inch picture measured diagonally, 90° deflection, SMPTE Type C phosphors

Horizontal Resolution: More than 600 lines, video input; More than 900 H x 300 V pixels

Character Display: 2000 characters (80 columns x 25 lines)

Color Temperature: Switchable 6500° K or 8300° K (factory preset for 6500° K)

Frequency Response: 9 MHz, -3 dB Analog RGB; 8 MHz, -3 dB Component Video; 8 MHz, -3 dB Y/C Video; 7 MHz, -3 dB Monochrome

Aperture Correction: -4.5- ±6.5 dB at 4.5 MHz

Normal Scan: 7% overscan of effective screen area

Underscan: 3% underscan of effective screen area

Return Loss: -40 dB at 4 MHz (LINE A & B)

Synchronization: Horizontal pull-in range: ±800 Hz, NTSC ±770 Hz, PAL; Horizontal hold range: ±1000 Hz, NTSC, ±1100 Hz, PAL; Vertical hold range: ±52-60 Hz, NTSC, ±42-50 Hz, PAL

Raster Size Stability: Horizontal: Better than 0.8%; Vertical: Better than 1.5%

Convergence: Zone A (center circle with diameter equal to picture height): 0.5 mm; Zone B (remainder of screen): 1.0 mm

Brightness: More than 47 foot-Lamberts

Video Inputs: 8-pin VTR connector and Line A & B BNC connectors; 1.0 V p-p, +6 dB, sync negative, auto termination

Y/C Video Input: 4-pin DIN connector; Y (Luminance signal) 1.0 V p-p, sync negative, 75 Ohms terminated; C (Chrominance signal) 0.286 V p-p (burst signal) 75 Ohms terminated

Audio Inputs: 8-pin VTR connector and Line A & B phonojacks; -5 dB, high impedance

Sync Input: BNC connector; 2.0-8.0 V p-p, negative, 75 Ohms, auto termination

RGB Inputs: 3 BNC connectors, 0.7V p-p, ±6 dB non-composite; RGB (Component audio RCA jack - 5 dB, high impedance, automatic detection of sync on green

Y/R-Y/B-Y Inputs: BNC connectors; Y: 1.0 V p-p, 75 ohms, sync negative; R-Y, B-Y: 0.7 V p-p (75% color bars)

Outputs: Video A/B BNC connectors; Audio A/B phono jacks; Y/R-Y/B-Y/RGB BNC connectors (x3); Sync BNC connector

Power Requirements: 100/120V AC 50/60 Hz

Power Consumption: 99 W max.

Dimensions (HxWxD): 13 1/2" x 13 1/2" x 16 1/2" (346 x 346 x 412 mm)

Weight: Approx. 36 lbs., 5 oz. (16.5 kg)

*Due to the constantly growing array of software and add-on hardware products and to the lack of standardization in the microcomputer industry, Sony cannot and does not warrant that there will be compatibility in every instance between this monitor and those products to which the user may choose to connect it.

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SONY

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