BVM-F250A

24.5-inch TRIMASTER EL[™] OLED reference monitor with wide viewing angle



Overview

TRIMASTER EL[™] broadcast reference monitor with dramatically improved viewing angle

For reference monitoring applications in the broadcast industry, Sony's leading edge Organic Light-Emitting Diode (OLED) technology and signals processing technology ensures absolutely outstanding performance with the BVM-F250A. The colour shift depending on the viewing angle has reduced to less than half compared to a conventional OLED panel. It allows several people to evaluate the image with extreme accuracy at the same time, increasing the monitor's versatility in top end monitoring solutions.

Affordable price

Super Top Emission technology enhances OLED's intrinsic benefits to deliver outstanding black performance, a quick response with virtually no motion blur, and a wide colour gamut. A 12-bit output digital signal processing engine provides a nonlinear cubic conversion colour-management system that delivers precise colour reproduction, stunning picture uniformity, smoother-than-ever gamma performance, and picture quality consistency.

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Accepts computer signals via HDMI

The BVM-F250A accepts various computer signals input up to 1920 x 1080 through its HDMI connector.

Features

Superb picture performance

Sony TRIMASTER EL[™] technology combines the ultimate performance of Sony OLED display with the highly sophisticated TRIMASTER[™] technology to provide the highest level of picture performance: Accurate Black Reproduction High purity and accurate colour reproduction Quick response time with virtually no motion blur Very high contrast ratio

Dramatically improved viewing angle

The colour shift depending on viewing angle has reduced to less than half (less than 50%) compared to a conventional OLED panel. Viewing angle is no longer an issue in practical usage, where three people in front of the monitor can evaluate at the same time across a 45 degrees angle.

Super Top Emission™ technology

Sony's Super Top Emission™ technology has a micro-cavity structure which incorporates colour filters. The micro-cavity structure uses an optical resonance effect to enhance colour purity and improve light-emission efficiency. In addition, the colour filter of each RGB further enhances the colour purity of emitted light, and reduces ambient light reflection.

Ultimate Sony display engine

High-precision signal processing engine has been developed to fulfil the reference monitor criteria and is optimized to maximize OLED panel performance. This engine incorporates 12-bit output accuracy at each process, and provides both a high quality I/P conversion algorithm and a highly accurate colour management



system.

Multi-format signal support

The BVM-F250A monitor can accept almost any SD or HD video format, both analogue and digital, and variable computer signals up to 1920 \times 1080. In addition to the standard inputs, four option board slots are offered to configure this monitor according to different user needs.

Versatile video inputs

This monitor is equipped as standard with two 3G/HD/SD-SDI inputs, an HDMI (with HDCP) input and a DisplayPort connector. In addition, four option ports are available to accept analogue or digital input adaptors.

Four slots for optional video input decoders

The monitor can accept up to four optional video input boards simultaneously. Available formats include analogue, composite, Y/C, components, RGB and digital 3G/HD/SD SDI.

3D signal analysing functions (3D signal input, 2D display)

By installing the optional BKM-250TG 3G/HD-SDI input adaptor*, the BVM-F250A can support a variety of 3D signal analyses. The 3D signals* are displayed in 2D mode. Difference display Checkerboard display L/R switch display Horopter check display Flip H display

* Requires the BKM-250TG 3G-SDI input adaptor (serial number 7200001 or later). 3D signals are not displayed in stereoscopic view.

Auto White Balance

The colour temperature and white balance of BVM "A" Series

monitors can be automatically adjusted by the Auto White Balance function using specified colour temperature probes, such as Konica Minolta: CA-210, CA-310, CS-200, DK-Technologies: PM5639/06, X-Rite: i1 (Eye-One) Pro and i1Pro2. Photo Research: PR-655, PR-670 Klein: K-10 Jeti: Specbos 1211

High quality I/P conversion technology

The BVM-F250A monitor uses a sophisticated I/P conversion technique that keeps artefacts that are often seen in flat panel displays to a minimum such as edge jaggedness, conversion errors, etc.

Low video delay

The BVM-F250A display engine ensures a picture delay that is less than one field.

Panel calibration

Every BVM-F250A monitor is carefully calibrated at the factory on an individual basis, providing a high level of accuracy and stability for characteristics such as gamma and uniformity.

Colour feedback system

Using a colour feedback system, the BVM-F250A monitor achieves the stability required for broadcast critical monitoring applications.

Interlaced display mode

Faithfully reproduces interlaced signals, emulating CRT monitors.

Picture & Picture mode

The unique Picture & Picture function of the BVM-F250A allows simultaneous display of two input signals side by side on the monitor's screen. This function is extremely convenient for

making instant adjustments to two input sources.

Pixel zoom mode

A selected area of the displayed picture can be enlarged on a pixel basis, up to eight times in size both vertically and horizontally.

Scan Switch

The Scan Switch function allows switching between under scan (-3%), normal scan (0%), and over scan (5%).

Native Scan (pixel-to-pixel display)

The Native Scan function is a unique display mode that reproduces images withoutchanging the input signal's pixel count.

HD Frame Capture mode

The HD Frame Capture function of the BVM Series allows a picture frame from the 3G-SDI and HD-SDI input to be captured and saved as a picture file on a Memory Stick[™] media. This picture file can be used as a reference for various purposes, for example, as for picture-tone adjustments between past images and for camera-framing adjustments.

Separate control unit with memory stick slot

A separate control unit BKM-16R is available for the BVM-F250A. It is equipped with a Memory Stick socket enables users to download and save all monitor set-ups such as input channel configuration, control preset adjustments, white balance settings and maintenance parameters.

Centralised monitor-wall control

The BVM Series monitors and the BKM-16R Monitor Control Unit are equipped with an Ethernet port, allowing remote control of display parameters across a standard Ethernet connection. One BKM-16R Monitor Control Unit can control up to thirty-two (32) BVM monitors.

Character Off button

To facilitate parameter adjustments, the On-Screen Menu indication can be taken off the screen, while in Menu mode. The On-Screen Menu indication can be toggled on or off with a simple press of a button on the BKM-16R's front panel.

Copy function for monitor setup and adjustment data

The optional BKM-16R control unit includes a Memory Stick slot to save and load monitor configuration and adjustment settings. This is useful for multiple monitor systems, allowing the transfer of one monitor's setup and adjustment data to another. This data can also be transferred via the BVM's Ethernet connection.

+12dB Chroma UP function

A Chroma UP button located on the front panel of the BKM-16Rallows the Chroma level to be boosted by +12dB. This is a convenient feature for adjusting camera white balance with a higher degree of accuracy.

Marker settings

BVM Series monitors can display various markers, including an aspect marker, safe area marker and centre marker. In addition to this flexible selection of marker types, detailed display settings of each marker are offered. For example, the colour, brightness, horizontal/vertical position and width of aspect markers can all be controlled, while the height and width of safe area markers can be adjusted.

Aspect switch

The aspect ratio can be switched between 4:3 and 16:9 depending on the input signal.

Wide variety of functions

The user has a wide variety of over 40 functions to choose from. Each of these can be assigned to any of the 16 function buttons (F1 to F16) on the BKM-16R controller.Press ENTER to display the

F1 to F8 (or F9 to F16) button assignment on screen.

Status display

Simply assign STATUS to one of the function buttons (F1 to F16) on the BKM-16R controller. The user can instantly grasp the whole monitor status and configurations without having to search through menus.

Specifications

cture Performance

Panel	OLED panel
Picture size (diagonal)	623.4 mm 24 5/8 inches
Effective picture size (H x V)	543.4 x 305.6 mm 21 1/2 x 12 1/8 inches
Resolution (H x V)	1920 x 1080 pixels (Full HD)
Aspect	16:9
Pixel efficiency	99.99%
Panel drive	RGB 10-bit
Panel frame rate	48 Hz / 50 Hz / 60 Hz / 72 Hz / 75 Hz (48 Hz, 60 Hz, and 72 Hz are also compatible with 1/1.001 frame rates)
Viewing angle (panel	89°/89°/89°/89° (typical)



specification)	(up/down/left/right contrast >10:1)
Color temperature	D65, D93, and user
Standard luminance	100 cd/m2 (Preset1 to Preset5) (100% white signal input)
Color space (color gamut)	ITU-R BT.709, EBU, SMPTE-C, F250 / F170 Native*1, The BVM-F250 / BVM-F170 individual chromaticity points: R (x = 0.681, y = 0.319) / G (x = 0.189, y = 0.724) / B (x= 0.141, y= 0.051) (typical)

Input	
SDI	BNC (x2)
HDMI	HDMI (x1) (HDCP correspondence, Deep Color correspondence)
DisplayPort	DisplayPort connector (x1)*2
Option port	4 ports
Parallel remote	D-sub 9-pin (female) (x1)
Serial remote (LAN)	Ethernet (10BASE-T/100BASE-TX), RJ-45 (x1)

Output

SDI	BNC (x1)
DC 5 V out	Circle 4-pin (female) (x1)
General	
Power requirement	AC 100 V to 240 V, 1.6 A to 0.8 A, 50/60 Hz
Power consumption	Approx. 145 W (max.), Approx. 72 W (average power consumption in the default status)
Operating temperature	0°C to 35°C (32°F to 95°F), Recommended: 20°C to 30°C (68°F to 86°F)
Operating humidity	0% to 90% (no condensation)
Storage and transport temperature	-20°C to +60°C (-4°F to +140°F)
Storage and transport humidity	0% to 90%
Operating, storage, and transport pressure	700 hPa to 1060 hPa
Dimensions (W x H x D)	576.0 x 424.0 x 148.0 mm 22 3/4 x 16 3/4 x 5 7/8 inches



Mass

13.0 kg 28 lb 11 oz

Supplied Accessories	
	AC power cord
	AC plug holder
	bracket
	Operation Manual
	CD-ROM
	Using the CD-ROM

Related products



Super 35mm 8K CMOS

sensor SRMASTER

F65

camera



PMW-F5 Super 35mm 4K CMOS

sensor compact CineAlta camera records HD/2Kon SxS memory plus 16-bit RAW 2K/4K output



HDC-2500 3G double-speed multi format HD



HDC-2400 3G multi format HD system camera



HDC-4300

HDC-1700

Multi format HD

portable system

4K/HD System Camera



HDC-2570

Multi-format HD portable system camera with digital triax transmission interface



MVS-8000X 4K, HD, 3G, SD Multi-Format Production





system camera

camera



HDC-2000W

3G double-speed multiformat HD studio system camera (beige)



HDC-2000B

3G double-speed multiformat HD studio system camera (black)

Gallery



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