

## 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.

Accepts computer signals via HDMI

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

## PrimeSupport

This product also comes with PrimeSupport – fast, hassle-free repairs and a helpline offering expert technical advice which gives you the peace of mind that Sony is looking after your equipment, and your business.

## 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 × 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 without changing 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-16R allows 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**

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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.

## Related products



### F65

Cámara SRMASTER con sensor CMOS 8K Super 35 mm



### PMW-F5

Cámara CineAlta compacta con sensor CMOS 4K Super 35 mm que graba en formato HD/2K en tarjetas de memoria SxS y ofrece salida en formato RAW 2K/4K de 16 bits



### HDC-4300

Cámara de estudio 4K/HD



### HDC-2570

Cámara HD multiformato portátil con interfaz de transmisión triaxial digital



### HDC-2500

Cámara HD multiformato de doble velocidad y 3G



### HDC-2400

Cámara de sistema HD multiformato 3G



### HDC-1700

Cámara de estudio HD multiformato portátil



### MVS-8000X

Procesador de mezcladores de producción multiformato 4K, HD, 3G y SD



## **HDC- 2000W**

Cámara de sistema de estudio HD multiformato de doble velocidad 3G (beige)



## **HDC- 2000B**

Cámara de sistema de estudio HD multiformato de doble velocidad 3G (negro)



## Gallery

