

# BVM-E250 / BVM-E170

Professional OLED Master Monitor

**SONY**  
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Sony is proud to introduce its much-anticipated BVM-E Series of organic light-emitting diode (OLED) master monitors: the BVM-E250 – 24.5-inch (623.4 mm, diag.) and BVM-E170 – 16.5-inch (420.0 mm, diag.). Only Sony has the capability to develop products such as these, as the company builds on over 30 years of CRT and LCD master monitor experience in the production industry, and has created its own sophisticated OLED display devices and signal processing engines.

To improve the OLED self light-emitting device, Sony incorporates its unique Super Top Emission OLED technology. The result is superb picture quality – these new master monitors deliver outstanding black performance, quick response with virtually no motion blur, and a wide color gamut.

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

As well as developing the OLED display panel for this superb monitor series, Sony also developed a dedicated 12-bit output accuracy digital signal processing engine. This professional engine features a nonlinear cubic conversion color-management system that delivers stunning uniformity, smoother-than-ever gamma performance, and picture quality consistency.

The combination of the Super Top Emission OLED display panel and the dedicated professional display engine justifies describing the BVM-E250 and BVM-E170 as groundbreaking, next-generation master monitors. With these cutting-edge products, Sony opens a new chapter in professional monitor history.

Preliminary

**TRIMASTER EL**

## ▲ Main Features

### Picture performance

- ▶ Sony's Super Top Emission OLED display panel
- ▶ 24.5-inch (623.4 mm, diag.) and 16.5-inch (420.0 mm, diag.) full-HD (1920 x 1080) resolution OLED display panels with an RGB 10-bit panel driver
- ▶ Superb picture quality
  - Accurate black reproduction
  - Outstanding contrast performance in ambient light and dark environments
  - Quick response with virtually no motion blur
  - High-purity deep color reproduction and wide color gamut

### Digital signal processing

- ▶ 12-bit output accuracy digital signal processing
- ▶ Nonlinear cubic conversion color-management system
- ▶ Highly-accurate I/P conversion with extremely low process delay

### Multi-format signal interfaces

- ▶ Standard ports: 3G/HD/SD-SDI (x2), HDMI™ (x1), DisplayPort (x1)\*1
- ▶ Optional ports for up to four optional input adaptors (see the optional accessories)

### 3D signal analyzing functions (3D signal input, 2D display)\*2

- ▶ Difference display
- ▶ Checkerboard display
- ▶ L/R switch display
- ▶ Horopter check display
- ▶ Flip H display

### Other features

- ▶ Inheriting beneficial features from the BVM-L series

\*1 DisplayPort will be supported from the monitor software version 1.1 or later.

\*2 Requires the BKM-250TG 3G-SDI input adaptor (serial number 7200001 or later), sold separately. 3D signals are not displayed in stereoscopic view.

## ▲ Optional Accessories

- ▶ BKM-16R Monitor Control Unit
- ▶ BKM-250TG 3G/HD/SD-SDI Input Adaptor (serial number 7200001 or higher)
- ▶ BKM-244CC HD/SD-SDI Closed Caption Adaptor
- ▶ BKM-243HS HD/SD-SDI Input Adaptor (serial number 2108355 or higher)
- ▶ BKM-220D SD-SDI 4:2:2 Input Adaptor (serial number 2100001 or higher)
- ▶ BKM-229X Analog Component Adaptor (serial number 2200001 or higher)
- ▶ BKM-227W NTSC/PAL Input Adaptor
- ▶ BKM-37H Controller Attachment Stand with tilt function for BVM-E250
- ▶ BKM-39H Controller Attachment Stand for BVM-E170
- ▶ SMF-700 Monitor Interface Cable

## ▲ Specifications (tentative)

	BVM-E250	BVM-E170
<b>Picture Performance</b>		
Panel	OLED panel	
Picture size (diagonal)	623.4 mm (24 5/8 inches)	420.0 mm (16 5/8 inches)
Effective picture size (H x V)	543.4 x 305.6 mm (21 1/2 x 12 1/8 inches)	365.8 x 205.7 mm (14 1/2 x 8 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 specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)	
Standard luminance	100 cd/m <sup>2</sup> (preset1 to preset5) 48 cd/m <sup>2</sup> (preset D-Cine) (1.0 Vp-p reference signal, 100% white signal input)	
<b>Input</b>		
SDI	BNC (x2)	
HDMI	HDMI (x1) (HDCP correspondence, Deep Color correspondence)	
DisplayPort	DisplayPort connector (x1)*1	
Option port	4 ports	
Parallel remote	D-sub 9-pin (female) (x1)	
Serial remote (LAN)	Ethernet (10BASE-T/100BASE-TX), RJ-45 (x1)	
<b>Output</b>		
SDI	BNC (x1)	
DC 5 V out	Circle 4-pin (female) (x1)	
<b>General</b>		
Power requirement	AC 100 V to 240 V, 1.6 A to 0.8 A, 50/60 Hz	AC 100 V to 240 V, 1.4 A to 0.7 A, 50/60 Hz DC 24 V to 28 V, 4.7 A to 4.0 A
Power consumption	Approx. 145 W (at maximum load, the luminance compensation due to the aged deterioration included.) Approx. 72 W (input from the standard HDMI input, the default status.)	Approx. 115 W (AC), 106 W (DC) (at maximum load, the luminance compensation due to the aged deterioration included.) Approx. 65 W (AC), 60 W (DC) (input from the standard HDMI input, the default status.)
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)	436.0 x 282.4 (266.4)*2 x 214.7 mm (17 1/4 x 11 1/4 (10 1/2)*2 x 8 1/2 inches)
Mass	13.0 kg (28 lb 11 oz)	8.5 kg (18 lb 11 oz)
Supplied accessories	AC power cord (1), AC plug holder (1), Bracket (1), Operation Manual (Japanese, English, each 1), CD-ROM (1), Using the CD-ROM Manual (1)	AC power cord (1), AC plug holder (1), Bracket (1), Rack mount bracket (2), Operation Manual (Japanese, English, each 1), CD-ROM (1), Using the CD-ROM Manual (1)

\*1 DisplayPort will be supported from the monitor software version 1.1 or later. \*2 Height without legs

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The BVM-E250 and BVM-E170 are produced at Sony EMCS Corporation Tokai Tec, which has received ISO14001 Environmental Management System certification.

