SONY

BVM-E170

16.5-inch Full-HD Reference OLED Monitor

Overview

Professional applications

For professional applications such as camera control, on-set shooting, high-end editing, broadcasting and scientific research, Sony's leading edge Organic Light Emitting Diode (OLED) technology and signals processing expertise ensures absolutely outstanding performance with the BVM-E170.

State-of-the-art product
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. An all-new 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-E170 accepts various computer signals input up to 1920 x 1080 through its HDMI connector. It is also equipped with Digital Cinema features.

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 with virtually no motion blur
- High Contrast Performance

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 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-E170 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* for future expansion. In addition, four option ports are available.
* DisplayPort input will be supported from monitor software version 1.1 or later.

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.

Specifications

Picture Performance	
Panel	OLED panel
Picture Size (Diagonal)	419.7 mm 16 1/2 inches
Effective Picture Size (H x V)	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	0.9999
Panel Drive	RGB 10-bit
Panel Frame Rate	48 Hz, 50 Hz, 60 Hz, 72 Hz, 75 Hz *1
Viewing Angle (Panel Specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)
Normal Scan	0% scan
Native Scan	Mapping the pixels of the signal to the panel to one-to-one mode, or displaying an SD signal of nonsquare pixels (the number of H pixels of the signal system is 720 or 1440) or a 640 × 480 SD signal of HDMI video by scaling processing of doubling for the V direction and correct aspect ratiofor the H direction and also optimizing and sidplaying a picture by modifying the aperture coefficient value, filter coefficient value, etc.
Under Scan	3% under scan
Over Scan	Mask of 5% over scan portion in the normal scan
Color Temperature	D55, D61, D65, D93, D-Cine *2 , User

Picture Performance	
Standard Luminance	100 cd/m2 (Preset1 to Preset5) 48 cd/m2 (Preset (D-Cine)) (100% white signal input)
Color Space (Color Gamut)	ITU-R BT.709, EBU, SMPTE-C, D-Cine *3 , E170 Native *4 , S-GAMUT *5
Warm-up Time	Approx. 30 minutes

Input	
SDI Input	BNC (x2) Input impedance: 75 Ω unbalanced Sampling frequency 3G-SDI: - Y/Cb/Cr (4:2:2): 148.5 MHz/74.25 MHz/74.25 MHz - Y/Cb/Cr (4:4:4): 148.5 MHz/148.5 MHz/148.5 MHz - G/B/R (4:4:4): 148.5 MHz/148.5 MHz/148.5 MHz HD-SDI: - Y/Cb/Cr (4:2:2): 74.25 MHz/37.125 MHz/37.125 MHz SD-SDI: - Y/Cb/Cr (4:2:2): 13.5 MHz/6.75 MHz/6.75 MHz Quantization 3G-SDI: 10bit/sample, 12 bit/sample HD-SDI: 10bit/sample SD-SDI: 10bit/sample
HDMI Input	HDMI (x1) (HDCP correspondence, Deep Color correspondence)
DisplayPort	DisplayPort connector (x1) *6
Option Port	Four (4) ports
Parallel Remote	D-sub 9-pin (female) (x1)
Serial Remote (LAN)	RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX)
DC Input	XLR-type 3-pin (male) (x1), 24V DC (output impedance 0.05 Ω or less)

Output	
SDI Output	BNC (x1) (monitor output) *7 Output signal amplitude: 800 mVp-p±10% Output impedance: 75 Ω unbalanced Transmission distance 3G-SDI: 70 m max. *8 HD-SDI: 100 m max. *8 SD-SDI: 200 m max. *9
DC 5 V Output	Circle 4-pin (female) (x1)

General	
Power Requirements	100 V to 240 V AC, 1.2 A to 0.7 A, 50/60 Hz 24V to 28V DC, 4.5A to 3.9 A
Power Consumption	Approx. 110 W (AC power supply), 100 W (DC power supply) (max.) Approx. 60 W (AC power supply), 60 W (DC power supply) (average power consumption in the default status)
Inrush Current	(1) Maximum possible inrush current at initial switch-on (Voltage changes caused by manual switching): 55 A peak, 15 A r.m.s. (240V AC) (2) Inrush current after a mains interruption of five seconds (Voltage changes caused at zero-crossing): 36 A peak, 7 A r.m.s. (240V AC)
Operating Temperature	0°C to 35°C (Recommended: 20°C to 30°C) 32°F to 95°F (Recommended: 68°F to 86°F)
Operating Humidity	0% to 90% (no condensation)
Storage/Transport Temperature	-20°C to +60°C -4°F to +140°F
Storage/Transport Humidity	0% to 90%
Operating/Storage/Transport Pressure	700 hPa to 1060 hPa
Dimensions (W x H x D) *10	436.0 x 282.4 (266.4)*5 x 214.7 mm 17 1/4 x 11 1/4 (10 1/2)*5 x 8 1/2 inches
Mass	Approx. 8.6 kg Approx. 18 lb 15 oz
Supplied Accessories	AC power cord (1) AC plug holder (1) Rack mount bracket (Left, right, each 1) Rack mount attachement screws (4) Operation Manual (Japanese, English, each 1) CD-ROM (1) Using the CD-ROM Manual (1)
Optional Accessories	BKM-16R Monitor Control Unit BKM-39H Controller Attachment Stand BKM-37H Controller Attachment Stand SMF-700 Monitor Interface Cable BKM-220D SDI 4:2:2 Input Adaptor (with serial number 2100001 or higher) BKM-227W NTSC/PAL Input Adaptor BKM-229X Analog Component Input Adaptor (with serial number 2200001or higher) BKM-243HS HD/D1-SDI Input Adaptor (with serial number 2108355 or higher) BKM-244CC HD/SD-SDI Closed Caption Adaptor BKM-250TG 3G/HD/SD-SDI Input Adaptor (with serial number 7300001or higher)

Notes	
Note	*[1] 48 Hz, 60 Hz and 72 Hz are also compatible with a frame rate of 1/1.001.
Note	*[2] D-Cine: x = 0.314, y = 0.351
Note	*[3] Chromaticity point of SMPTE RP 431-2 is not covered in full.
Note	*[4] The BVM-E170 individual chromaticity points. The widest color space setting of the signal is reproduced by the BVM-E170. R (x = 0.681, y = 0.319)/G (x = 0.189, y = 0.724)/B (x= 0.141, y= 0.051) (typical)
Note	*[5] For displaying the color gamut of the wide color space mode S-GAMUT, which is available for the F23 or F35 Digital Cinematography Camera.
Note	*[6] The DisplayPort input is available from V1.1.
Note	*[7] The signal from the monitor output connector does not satisfy the online signal specifications.
Note	*[8] When using 5C-FB coaxial cables (Fujikura or equivalent).
Note	*[9] When using 5C-2V coaxial cables (Fujikura or equivalent).
Note	*[10] The values for dimensions are approximate.

Gallery

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