

■ **Know your BVM from your PVM?**

Our at-a-glance
comparison of
Sony's Trimaster EL
OLED Monitors.

April 2013

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Our at a glance comparison of Sony's TRIMASTER EL OLED monitors

Looking for a new broadcast reference monitor?

The TRIMASTER EL range are among the most impressive monitors on the market when it comes to colour critical work, with a 12-bit non-linear cubic colour conversion management system giving picture uniformity, colour consistency and accuracy of reproduction. Powered by Sony's TRIMASTER EL image processing technology, these monitors offer you a huge colour gamut across their entire luminance range, with deep, detailed blacks, accurate skin tones and far less of the flicker and motion blurring you get with CRT monitors.

Check out the chart below for more info...

■ Picture Performance



Features	BVM-E250A /E170A	BVM-F250A/F170A	PVM-2541A / 1741A
Display technology	Sony OLED Super Top Emission	Sony OLED Super Top Emission	Sony OLED Super Top Emission
Picture size	24.5/16.5"	24.5/16.5"	24.5/16.5"
Resolution	Full HD (1920x1080)	Full HD (1920x1080)	Full HD (1920x1080)
Aspect ratio	16:9	16:9	16:9
Panel drive	10-bit RGB	10-bit RGB	10-bit RGB
Video processor	12-bit output	12-bit output	10-bit output
Colour temperature	D55/D61/D65/D93/ D-Cine/User 1-5	D65/D93/User 1-5	D65/D93/User
Colour space	ITU-R BT.709/EBU/SMPTE-C/ D-Cine/S-Gamut/Native	ITU-R BT.709/EBU/ SMPTE-C/Native	ITU-R BT.709/EBU/SMPTE-C/ OFF
Gamma	2.2/2.4/2.6 (D-Cine)/CRT/S-Log (Full/Standard)	2.2/2.4/CRT	2.2/2.4/CRT

■ Video Format

D-Cine mode	Yes	-	-
2K Cinema	Yes (with image slide)	-	-
Dual Link HD SDI	Yes (2xBKM-243HS/2xBKM- 244CC/1x BKM-250TG)	Yes (2xBKM-243HS/2xBKM- 244CC/1x BKM-250TG)	-
1080/50p	Yes (Dual Link HD or 3G SDI/HDMI)	Yes (Dual Link HD or 3G SDI/HDMI)	Yes (with 3G SDI/HDMI)

Colour calibration

Features	BVM-E250A /E170A	BVM-F250A/F170A	PVM-2541A / 1741A
Auto White Adjustment* *requires Sony GUI software	CA-210/CA-310/CS-200/i1Pro/ i1Pro2/PR655/PR670/K10/ Specbos 1211/PM5639/06	CA-210/CA-310/CS-200/i1Pro/ i1Pro2/PR655/PR670/K10/ Specbos 1211/PM5639/06	CA-210/CA-310/CS-200/i1Pro/ i1Pro2/PR655/PR670/K10/ Specbos 1211/PM5639/06

Input / Output

SDI	3G/HD/SD (x2) Input, Monitor output (x1)	3G/HD/SD (x2) Input, Monitor output (x1)	3G/HD/SD (x2) Input, Monitor output (x1)
HDMI	x1 (HDCP)	x1 (HDCP)	x1 (HDCP)
Display Port	x1 (HDCP)	x1 (HDCP)	-
DVI	DVI -> HDMI cable required	DVI -> HDMI cable required	DVI -> HDMI cable required
Analogue components/RGB	Optional (BKM-229X)	Optional (BKM-229X)	-
Y/C	Optional (BKM-227W)	Optional (BKM-227W)	-
Analogue composite	Optional (BKM-227W)	Optional (BKM-227W)	x1 (with loop mode)
Analogue Audio	-	-	x1 (with monitor out)
Digital Audio	SDI embedded	SDI embedded	SDI embedded
Audio speakers	-	-	Yes (Mono)
Headphones	-	-	Yes
Parallel remote	Yes (x8 Pin assignable)	Yes (x8 Pin assignable)	Yes (x8 Pin assignable)
Serial remote Ethernet	Yes	Yes	Yes
Option port	x4	x4	-
Option board	BKM-227W/229X/220D/243HS/ 244CC/250TG	BKM-227W/229X/220D/243HS/ 244CC/250TG	-
DC Operation	BVM-E170A (24-28V)	BVM-F170A (24-28V)	PVM-1741A (12V)

Mechanical Features

19-inch EIA standard Rack mountable	BVM-E170A only	BVM-F170A only	PVM-1741A only
Vesa Mounting	100mm	100mm	100mm
Optional Display stand	BKM-37H (with tilt) (BVM-E250A) BKM-38H (BVM-E250A) BKM-39H (BVM-E170A)	BKM-37H (with tilt) (BVM-F250A) BKM-38H (BVM-F250A) BKM-39H (BVM-F170A)	SU-561 (Height and tilt) Monitor feet supplied standard

Controls

External Remote Control Function	Up to 32 units (With BKM-16R)	Up to 32 units (With BKM-16R)	Up to 32 units (With BKM-16R)
Control unit	Yes (BKM-16R)	Yes (BKM-16R)	Embedded

Additional Features

Features	BVM-E250A /E170A	BVM-F250A/F170A	PVM-2541A / 1741A
Channel settings	Yes (Up to 30 channels)	Yes (Up to 30 channels)	-
Interlace mode	Yes	Yes	-
I/P Mode	Ultimate performance	Ultimate performance	Inter Field/Intra Field/Field Merge/Line Doubler
Built-in analysers	ALM (with BKM-250TG), Time Code	ALM (with BKM-250TG), Time Code	WFM/ALM/Vector Scope/Time Code
Camera focus function	-	-	Peaking/Colour
HD Frame capture	Yes	Yes	-
Memory stick save/load	Yes	Yes	-
Picture & Picture Mode	Side by Side, Wipe, Blending, Butterfly	Side by Side	ITU-R BT.709/EBU/SMPTE-C/OFF
Pixel Zoom	Yes	Yes	2.2/2.4/CRT
3D signal analysis	Difference, L/R switch, Checkerboard, Horopter	Difference, L/R switch, Checkerboard, Horopter	-
Flip function	H flip (with BKM-250TG)	H flip (with BKM-250TG)	-
SD Aspect correction	Yes	Yes	-
Closed Caption	Yes (with BKM-244CC)	Yes (with BKM-244CC)	-
Markers	Aspect, Safe area (x2), Centre marker	Aspect, Safe area (x2), Centre marker	Aspect, Safe area, Centre marker, Marker level, Marker Mat
Marker Preset	Preset (x5)	Preset (x5)	-
Aspect ratio	4:3/16:9/2.39:1/1.896:1	4:3/16:9	4:3/16:9
Gamut error display	Yes	-	-
S-Log Gamma	Full, Standard	-	-
Internal test generator	Yes (7x Test patterns)	Yes (7x Test patterns)	-
Copy function (set-up, adjustment)	Yes	Yes	-
Assignable function keys	16 keys	16 keys	7 Keys
+12db Chroma Up	Yes	Yes	-
Blue Only	Yes	Yes	Yes
Mono	Yes	Yes	Yes
H/V delay	Yes	Yes	Yes
Component level (SMPTE/EBU-N10/Betacam)	Yes	Yes	-
Aperture	Yes	Yes	Yes
Ext sync	Yes (for Analogue RGB/YUV with BKM-229X)	Yes (for Analogue RGB/YUV with BKM-229X)	-
Screen saver	Yes	Yes	Yes
Tally lamp	Yes (amber)	Yes (amber)	Yes (red, green, amber)