

# Monitor Product Guide



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# Multi-format Reference & Broadcast LCD Monitors / BVM-L & PVM-L Series

## BVM-L230

Reference Monitor



### TRIMASTER

- › 23-inch WUXGA LCD panel (10-bit)
- › Multi-format inputs
- › Accurate colour gamut standards
- › Ultra-High Picture Uniformity
- › Precise SD picture Performance
- › Short video delay
- › Picture&Picture Display modes
- › Cinema features
- › Interlace and Black Frame Insertion Mode
- › Separate control unit with Memory Stick slot

## BVM-L170

Reference Monitor



*Future Product*

### TRIMASTER

- › 17-inch Full HD LCD panel (10-bit)
- › Multi-format and HDMI inputs
- › Accurate colour gamut standards
- › Ultra-High Picture Uniformity
- › Precise SD picture Performance
- › Short video delay
- › Picture&Picture Display modes
- › Cinema features
- › Interlace & Black Frame Insertion Mode
- › Separate control unit with Memory Stick slot

## PVM-L2300

Broadcast Monitor



*Future Product*

### TRIMASTER

- › 23-inch WUXGA LCD panel (10-bit)
- › Multi-format and HDMI inputs
- › Precise colour gamut standards
- › Digital Uniformity Correction
- › Precise SD picture Performance
- › Short video delay
- › Picture&Picture Display modes
- › Interlace & Black Frame Insertion Mode
- › Separate control unit with Memory Stick slot

## Multi-format CRT Reference Monitors / BVM-A Series

### BVM-A20F1M



- › 20-inch HR Trinitron, EBU Phosphors, 900 TV lines
- › Multi format signal support
- › Dual link HD-SDI
- › Auto white balance
- › Digital uniformity
- › Optional input boards
- › Separate control unit with Memory Stick slot
- › Ethernet based remote control
- › SNMP remote maintenance

### BVM-A14F5M



- › 14-inch HR Trinitron, EBU Phosphors, 800 TV lines
- › Multi format signal support
- › Dual link HD-SDI
- › Auto white balance
- › Digital uniformity
- › Optional input boards
- › Separate control unit with Memory Stick slot
- › Ethernet based remote control
- › SNMP remote maintenance

## Multi-Format High Grade LCD Monitors / LMD Series

### LMD-4250W



Silver Support

ChromaTRU

- > 42-inch 1920x1080 wide-screen LCD panel
- > Ethernet Serial and Parallel remote
- > Multi format SD/HD video inputs
- > Versatile video and computer inputs
- > Full HD Native mode, pixel to pixel reproduction
- > Precise colour reproduction and consistency
- > Picture & Picture display mode
- > Wide viewing angle 176 degrees
- > Optional integrated Quad Split with Harris QS-100HD

### LMD-2450W



Silver Support

ChromaTRU

- > 24-inch WUXGA wide-screen LCD panel
- > Ethernet and Parallel remote function
- > Multi format SD/HD video inputs
- > Versatile video and computer inputs
- > Full HD Native mode, pixel to pixel reproduction
- > Precise colour reproduction and consistency
- > Picture & Picture display mode
- > Waveform & Audio level meter selection
- > Wide viewing angle 178 degrees
- > Optional integrated Quad Split with Harris QS-100HD

## LMD-2050W



Silver Support

ChromaTRU

- › 20-inch WSXGA+ wide-screen LCD panel
- › Wide viewing angle 178 degrees
- › Multi-format video inputs
- › Native scan mode, pixel to pixel reproduction
- › Precise colour reproduction and picture consistency
- › Picture & Picture display modes
- › Waveform & Audio level meter window
- › Ethernet and Parallel remote function
- › Optional integrated Quad Split with Harris QS-100HD

## LMD-1750W



Silver Support

ChromaTRU

- › 17-inch WXGA wide-screen LCD panel
- › Wide viewing angle 178 degrees
- › Multi-format video inputs
- › Native scan mode in HD/SD, pixel to pixel reproduction
- › Precise colour reproduction and picture consistency
- › Picture & Picture display modes
- › Waveform & Audio level meter window
- › Video-Audio synchronisation mode
- › Ethernet and Parallel remote function
- › Optional integrated Quad Split with Harris QS-100HD

## Entry Level LCD Monitors / LMD Series

### LMD-2030W



- › 20-inch WSXGA+ wide-screen LCD panel
- › Wide viewing angle 178 degrees
- › Multi-format video inputs
- › Analogue components HD input
- › HDMI input
- › Optional SD-SDI input decoder
- › 4:3/16:9 Switchable Display
- › Enhanced production features
- › Parallel remote function
- › Optional Rack Mount kit

### LMD-1420



- › 14-inch VGA LCD panel
- › Wide viewing angle 170 degrees
- › PAL/NTSC, Y/C, component/ RGB inputs
- › Optional SDI input decoder
- › 4:3/16:9 Switchable Display
- › Enhanced production features
- › Parallel remote function
- › Optional Rack Mount kit

### LMD-1410



- › 14-inch VGA LCD panel
- › Wide viewing angle 170 degrees
- › PAL/NTSC, Y/C, component/RGB inputs
- › 4:3/16:9 Switchable Display
- › Entry level production features
- › Parallel remote function
- › Optional Rack Mount kit

## Compact LCD Monitors / LMD Series

### LMD-9050



- › 8.4-inch XGA LCD panel
- › Wide viewing angle
- › Multi-format digital video inputs
- › Analogue & HD/SD-SDI input standard
- › Analogue HD component input
- › Enhanced production features
- › 4:3/16:9 Switchable Display
- › Advanced Marker Settings
- › Three-Colour Tally lamp
- › AC/DC and battery operation
- › Optional ENG kit & Dual LCD Rack Mount kit

### LMD-9030



- › 8.4-inch VGA LCD panel
- › Wide viewing angle
- › Analogue & SD-SDI input standard
- › Analogue HD component input
- › Enhanced production features
- › 4:3/16:9 Switchable Display
- › Advanced Marker Settings
- › Three-Colour Tally lamp
- › AC/DC and battery operation
- › Optional ENG kit & Dual LCD Rack Mount kit

### LMD-9020



- › 8.4-inch VGA LCD panel
- › Wide viewing angle
- › Versatile analogue inputs
- › Analogue HD component input
- › Enhanced production features
- › 4:3/16:9 Switchable Display
- › Advanced Marker Settings
- › Three-Colour Tally lamp
- › AC/DC and battery operation
- › Optional ENG kit & Dual LCD Rack Mount kit

## BVM Accessories

### Optional plug-in decoder boards

BKM-61D	SDI/Analogue multi input adaptor for BVM-A Series
BKM-62HS	HD/SD SDI input adaptor for BVM-A Series
BKM-68X	Analogue component input adaptor for BVM-A Series
BKM-220D	SDI decoder board for BVM-L Series- 2 x digital inputs
BKM-227W	NTSC/PAL input adaptor for BVM-L Series
BKM-229X	Analogue component input adaptor for BVM-L Series
BKM-243HS	HD/SD SDI decoder board for BVM-L Series - 2 x digital inputs

### Accessories

Memory stick	Normal, Pro, Duo
BKM-15R	Controller unit for BVM-A Series
BKM-16R	Controller unit for BVM-L Series
BKM-17M	Protection Panel for BVM-L170
BKM-23M	Protection Panel for BVM-L230/PVM-L2300
BKM-35H	Controller attachment kit for BVM-A20F1M
BKM-37H	Controller attachment kit for BVM-L230
BKM-38H	Controller attachment kit for PVM-L2300
BKM-39H	Controller attachment kit for BVM-L170
SMF-700	Monitor interface cable for BVM Series

### Rack mounting kits

BKM-30E14	Rack mount kit for BVM-A14F5M
BKM-30E20	Rack mount kit for BVM-A20F1M
MB-510	Rack mount kit for BKM-15R



## BVM-A Series configuration

### Standard Definition configuration

#### BVM-A20F1M/A14F5M

BKM-61D	SDI/Analogue multi input adaptor
BKM-15R	Monitor control unit for BVM-A20F1M
BKM-35H	Attachment kit for BKM-15R/BVM-A20F1M



### Multiformat configuration

#### BVM-A20F1M/A14F5M

BKM-62HS	HD/SD SDI input adaptor
BKM-15R	Monitor control unit for BVM-A20F1M
BKM-35H	Attachment kit for BKM-15R/BVM-A20F1M

## BVM-L Series configuration

### Standard Definition configuration

#### BVM-L230/BVM-L170/PVM-L2300

BKM-220D	SDI/Analogue multi input adaptor
BKM-227W	NTSC/PAL input adaptor
BKM-229X	Analogue component input adaptor
BKM-16R	Controller unit
BKM-37H	Controller attachment kit for BVM-L230
BKM-38H	Controller attachment kit for PVM-L2300
BKM-39H	Controller attachment kit for BVM-L170



### Dual link Multiformat configuration

#### BVM-L230/BVM-L170/PVM-L2300

BKM-243HS (x2)	HD/SD SDI decoder board
BKM-16R	Controller unit
BKM-37H	Controller attachment kit for BVM-L230
BKM-38H	Controller attachment kit for PVM-L2300
BKM-39H	Controller attachment kit for BVM-L170

Picture size
Picture resolution
Phosphors
Pitch size
16:9 capability
Colour temperature
Colour system
Auto white balance
Computer format
Composite video input
Component/RGB input
Y/C video input
HD analogue component
Dual link HD-SDI
HD/SD video input
SDI video input
HDMI video input
External sync.
Audio input
Built-in speaker
Underscan
Blue only
H/V delay
Tally lamp
Remote control
Rack Mount adaptor
Power requirements
Power consumption
Battery operation
Dimensions (W/H/D) mm (w/o stand)
Mass
Height

## Multi-format Reference & Broadcast LCD Monitors

<b>BVM-L230</b>	<b>BVM-L170 New!</b>	<b>PVM-L2300 New!</b>
23-inch	17-inch	23-inch
1920 x 1200 pixels	1920 x 1080 pixels	1920 x 1200 pixels
N/A	N/A	N/A
N/A	N/A	N/A
Yes	Yes	Yes
D65/D93/D61/D56/D-Cine/ User 1-5	D65/D93/D61/D56/D-Cine/ User 1-5	D65/D93/User 1-5
PAL/NTSC/SECAM	PAL/NTSC/SECAM	PAL/NTSC/SECAM
Xrite/Minolta/DK	Xrite/Minolta/DK	Xrite/Minolta/DK
HD15, DVI-D	HD15, DVI-D	HD15, DVI-D
1x (BKM-227W)	1x (BKM-227W)	1x (BKM-227W)
1x (BKM-229X)	1x (BKM-229X)	1x (BKM-229X)
1x (BKM-227W)	1x (BKM-227W)	1x (BKM-227W)
1x (BKM-229X)	1x (BKM-229X)	1x (BKM-229X)
2x (BKM-243HSx2)	2x (BKM-243HSx2)	2x (BKM-243HSx2)
2x (BKM-243HS)	2x (BKM-243HS)	2x (BKM-243HS)
2x (BKM-220D)	2x (BKM-220D)	2x (BKM-220D)
N/A	Yes	Yes
Yes	Yes	Yes
N/A	N/A	N/A
N/A	N/A	N/A
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Ethernet/parallel/RS-232C	Ethernet/parallel/RS-232C	Ethernet/parallel/RS-232C
N/A	Yes	N/A
AC 100 to 240V (50/60Hz)	AC100V to 240V 50/60Hz, DC 24V	AC100V to 240V 50/60Hz
Approx. 100W	Approx. 165 W (AC) Approx. 140 W (DC)	Approx. 80 W (with 1 x BKM-243HS)
N/A	N/A	N/A
565.5 x 435.2 x 247.1	426 x 265 x 280 (Tentative)	565.5 x 435.2 x 247.1
Approx. 22kg	Approx. 15kg	Approx. 16kg
N/A	6U	N/A

## Multi-format Reference CRT Monitors

## Multiformat High G LCD Monitors

<b>BVM-A20F1M</b>	<b>BVM-A14F5M</b>	<b>LMD-4250W</b>
20-inch	14-inch	42-inch
900 TV lines	800 TV lines	1920 x 1080 pixels
EBU	EBU	N/A
0.30 mm	0.25 mm	N/A
Yes	Yes	Yes
D65/D93/User	D65/D93/User	D65/D93/User
PAL/NTSC/SECAM	PAL/NTSC/SECAM	PAL/NTSC
BKM-14L	BKM-14L	N/A
N/A	N/A	HD15, DVI-D
3x (BKM-61D)	3x (BKM-61D)	1x
1x (BKM-68X)	1x (BKM-68X)	1x
1x (BKM-61D)	1x (BKM-61D)	1x
1x (BKM-68X)	1x (BKM-68X)	1x
1x (BKM-62HS)	1x (BKM-62HS)	N/A
2x (BKM-62HS)	2x (BKM-62HS)	2x (BKM-243HS)
2x (BKM-61D)	2x (BKM-61D)	2x (BKM-220D)
N/A	N/A	N/A
Yes	Yes	Yes
N/A	N/A	Yes
N/A	N/A	Stereo
Yes	Yes	Zeroscan
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	N/A
Ethernet/parallel	Ethernet/parallel	Ethernet/parallel/RS-232C
BKM-30E20	BKM-30E14	N/A
AC 100 to 240V (50/60Hz)	AC 100 to 240V (50/60Hz)	AC 100 to 240V (50/60Hz)
Approx 200W max	Approx 170W max	N/A
N/A	N/A	N/A
444 x 414 x 570	482 x 280 x 571	Approx 1027 x 616 x 130
Approx 40 kg	Approx 26 kg	Approx. 24kg
9U	7U	N/A

LMD-2450W	LMD-2050W	LMD-1750W
24-inch	20-inch	17-inch
1920 x 1200 pixels (WUXGA)	1680 x 1050 pixels (WSXGA+)	1280 x 768 pixels (WXGA)
N/A	N/A	N/A
N/A	N/A	N/A
Yes	Yes	Yes
D65/D93/User	D65/D93/User	D65/D93/User
PAL/NTSC	PAL/NTSC	PAL/NTSC
N/A	N/A	N/A
HD15, DVI-D	HD15, DVI-D	HD15, DVI-D
1x	1x	1x
1x	1x	1x
1x	1x	1x
1x	1x	1x
N/A	N/A	N/A
2x (BKM-243HS)	2x (BKM-243HS)	2x (BKM-243HS)
2x (BKM-220D)	2x (BKM-220D)	2x (BKM-220D)
N/A	N/A	N/A
Yes	Yes	Yes
Yes	Yes	Yes
Stereo	Stereo	Stereo
Zeroscan	Zeroscan	Zeroscan
Yes	Yes	Yes
Yes	Yes	Yes
Yes	Yes	Yes
Ethernet/parallel/RS-232C	Ethernet/parallel/RS-232C	Ethernet/parallel/RS-232C
N/A	MB-529	MB-530
AC 100 to 240V (50/60Hz)	AC 100V to 240V 50/60Hz	AC100V to 240V 50/60Hz; DC 12V
Approx. 115W Max.	Approx. 95W Max.	Approx. 70W Max.
N/A	N/A	N/A
602.4 x 386.2 x 110.0	518.5 x 328.7 x 104.7	Approx. 439.5 x 284 x 105
Approx. 11.4kg (w/o BKM)	Approx. 10.1kg (w/o BKM)	Approx. 6kg (w/o BKM)
N/A	8U with MB-529	7U with MB-530

## Entry Level LCD Monitors

LMD-2030W	LMD-1420	LMD-1410
20.1-inch	14-inch	14-inch
1680 x 1050 pixels (WSXGA+)	640 x 480 dots	640 x 480 dots
N/A	N/A	N/A
N/A	N/A	N/A
Yes	Yes	Yes
D65/D93/User	D65/D93/User	D65/D93/User
PAL/NTSC	PAL/NTSC	PAL/NTSC
N/A	N/A	N/A
HDMI	N/A	N/A
1x	2x	2x
1x	1x	1x
1x	1x	1x
1x	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
1x (BKM-320D)	1x (BKM-320D)	N/A
Yes	N/A	N/A
Yes	Yes	N/A
Yes	Yes	Yes
Mono	Mono	Mono
Yes	Yes	Yes
Yes	Yes	N/A
N/A	N/A	N/A
Yes	Yes	N/A
Parallel	Parallel	Parallel
MB-529	MB-526	MB-526
AC 100 to 240V, 50/60 Hz	AC 100 to 240V (50/60Hz)	AC 100 to 240V (50/60Hz)
Approx. 72W	51W	48W
N/A	N/A	N/A
Approx. 493 x 361 x 87	470 x 394 x 87	343 x 304 x 87
Approx. 9.6 kg (with stand) Approx 7.9kg (w/o stand)	Approx 6.8kg (with stand) Approx 5.1kg (w/o stand)	Approx 6.5kg (with stand) Approx 4.8kg (w/o stand)
9U with MB-529	7U with MB-526	7U with MB-526

## Compact LCD Monitors

<b>LMD-9050</b>	<b>LMD-9030</b>	<b>LMD-9020</b>
8.4-inch	8.4-inch	8.4-inch
1024 x 768 dots	640 x 480 dots	640 x 480 dots
N/A	N/A	N/A
N/A	N/A	N/A
Yes	Yes	Yes
D65/D93/User	D65/D93/User	D65/D93/User
PAL/NTSC	PAL/NTSC	PAL/NTSC
N/A	N/A	N/A
N/A	N/A	N/A
2x	2x	2x
1x	1x	1x
1x	1x	1x
1x	1x	1x
N/A	N/A	N/A
2x	N/A	N/A
2x	2x	N/A
N/A	N/A	N/A
Yes	Yes	Yes
Yes	Yes	Yes
Mono	Mono	Mono
Yes	Yes	Yes
Yes	Yes	Yes
N/A	N/A	N/A
Yes	Yes	Yes
Parallel	Parallel	Parallel
MB-525 (Dual LMD)	MB-525 (Dual LMD)	MB-525 (Dual LMD)
AC 100 to 240V (50/60Hz)	AC 100 to 240V (50/60Hz)	AC 100 to 240V (50/60Hz)
Approx 28W	Approx 22W	Approx 21W
Yes	Yes	Yes
216 x 206 x 136.1	216 x 206 x 136.1	216 x 206 x 136.1
3.9kg with AC adaptor 3kg w/o accessories	3.8kg with AC adaptor 2.9kg w/o accessories	3.7kg with AC adaptor 2.8kg w/o accessories
5U with MB-525	5U with MB-525	5U with MB-525

# 5 Additional reasons to choose LMD Series

## 2 Years Support

The Silver Support Pack is included as standard with all LMD Series models and extends the support period from the standard 1-year warranty to two years. Not only that, but extra features and services are also included.

## Operational Phone Call Centre

Operational phone support is provided to give advice and help so that the user can get the most out of their equipment and maximise its performance. Our phone support is available from Monday to Friday and in five languages: English, French, German, Italian and Spanish.

## Collection Anywhere

In the event of equipment failure, Sony will arrange collection of the faulty unit directly from, and delivery of the repaired unit directly to the customer's location - anywhere in mainland EU, Norway or Switzerland. That makes it simpler, quicker and even more convenient for the customer.

## Repair within 7 days

Sony will collect, repair and return the unit to the customer's preferred location within 7 working days. So, minimum downtime, increased confidence and the ability to plan your business are guaranteed.

## Loan

If the faulty equipment cannot be repaired in time, the hotline will contact the customer and arrange to have a loan unit delivered. Arrangements will be made to collect the loan unit as soon as confirmation is received that the repair has been carried out satisfactorily.



## LMD Accessories

### Optional plug-in decoder boards

BKM-220D	SDI decoder board – 2 x digital inputs
BKM-227W	NTSC/PAL input adaptor
BKM-229X	Analogue component input adaptor
BKM-243HS	HD/SD SDI decoder board – 2 x digital inputs
BKM-320D	SDI decoder board for LMD-2030W/1420

### Accessories

VF-509	ENG kit for LMD-9050/9030/9020
SU-561	Display Stand for LMD-1750W

### Rack mounting kits

MB-525	Rack mount kit for LMD-9050/9030/9020
MB-526	Rack mount kit for LMD-1420/1410
MB-528	Blank panel for MB-525
MB-529	Rack mount kit for LMD-2050W/2030W
MB-530	Rack mount kit for LMD-1750W

### Services from Sony

Services from Sony: working with you, working for you.

Recognising that every company and every challenge is unique, we offer a complete and comprehensive range of services all the way through consulting, planning, financing, implementation, training, servicing, maintenance and support. Choose exactly what's right for you, when and where you need it.

**Sony Professional Services:** Tailor-made design, installation and project management of audio-visual and IT (AV/IT) systems using skills developed over 25 years of systems integration.

**Sony Financial Services:** Innovative and flexible finance solutions designed to meet budgetary and financial requirements and constraints, enabling businesses to always have the most current technology.

**Sony Training Services:** A range of off-the-shelf or customised training services from basic operation through to high-level technical maintenance.

**Sony Support Services:** Fully integrated and customised support for products and systems throughout their operational life, combining proactive and reactive technical services.

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