SONY
make.believe

Shown with optional monitor stand.

Professional LCD Monitor

LMD-1751W

Sony's LUMA® Series of professional monitors has an important addition. The high definition LMD-1751W embodies Sony's vast experience in professional-grade monitoring and presents it on a 17-inch screen (431 mm, viewable area, measured diagonally).

For professional applications, the colors of one LCD monitor on a wall should match another, and LCDs should match CRTs. The LMD-1751W achieves these crucial goals thanks to Sony ChromaTRU® color matching. Sony also incorporates 10-bit signal processing, high-purity color filters and an LCD panel engineered for a wide viewing angle. Another degree of refinement is Auto White Balance calibration, which works in conjunction with a PC and a calibration tool like the X-Rite i1.

A true multi-format monitor, the LMD-1751W accepts the latest 3G-SDI signal sources. The optional BKM-250TG input card enables a single cable to provide 4:2:2 1080/50P and 1080/60P signals. Other features include rack mount capability and the option of AC or DC power.

The LMD-1751W is destined to win a place of pride everywhere from broadcast and post-production to live event and mobile production.

LUMA
Professional LCD Monitor

FEATURES

Superb Picture Performance

High Purity Color Filters

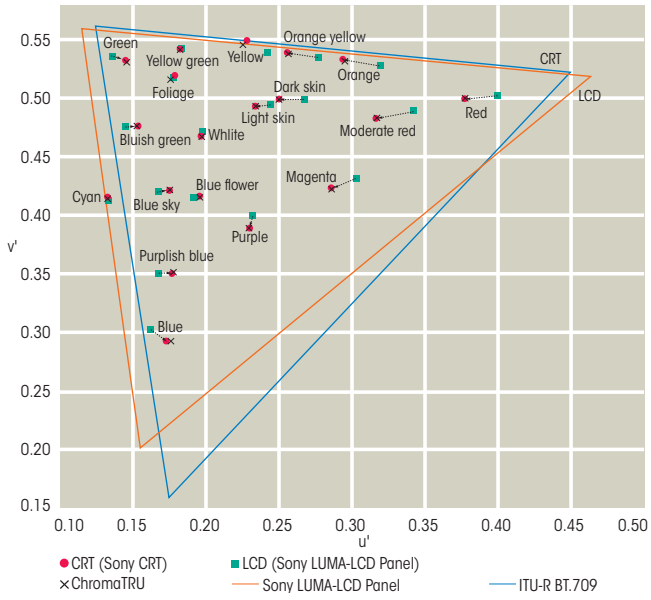
An LCD's color purity depends on the panel's RGB filters. The LMD-1751W uses precisely manufactured filters, for color of stunning depth and saturation.

Accurate Gamma and Stable White Balance – ChromaTRU® Color Processing

Matching LCD color can be an exercise in frustration. The reason? Even the best of today's LCD panels is still limited by inaccurate RGB color coordinates and unbalanced RGB gamma curves. Variations exist even within a single production run! That's why Sony created ChromaTRU color processing.

First Color Space Conversion electrically converts the native LCD primaries to their CRT equivalents. Then White Balance Calibration compensates for the gamma discrepancies between LCD and CRT monitors, while it balances the panel's RGB gamma curves. To establish this balance, Sony engineers calibrate each and every LCD panel along 208 points and store the data in the LMD-1751W memory. As a result, you'll enjoy superbly consistent color, reminiscent of Sony Trinitron® CRT monitors. And you'll see rock-steady color temperature across the entire grayscale.

CIE Color Coordinates

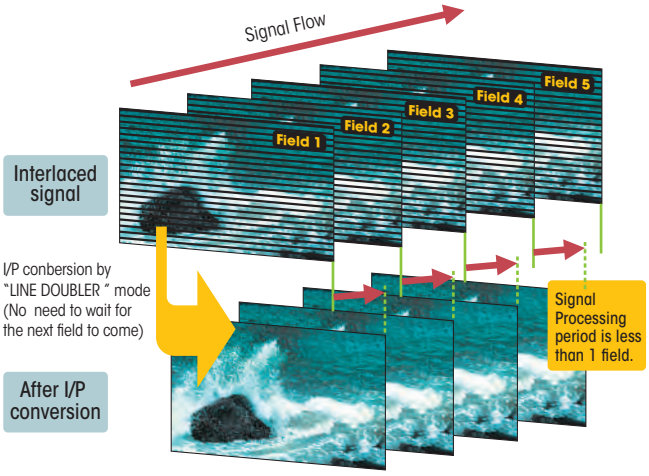


Sophisticated I/P Conversion

Motion-adaptive interlace-to-progressive (I/P) conversion optimizes the picture whether the image is moving or still. You get accurate reproduction of both HD and SD sources.

Picture Delay Minimum Mode

Audio is just as much a part of the show as video, and timing is always an issue. To optimize audio sync during editing, choose "LINE DOUBLER" under "IP MODE." This reduces picture delay to less than one field (0.5 frame).



Wide Viewing Angle

Some LCD panels lose contrast and color saturation and shift in hue as you move away from the center axis. It's a major limitation in a production truck or studio control room, where seats can be far off-axis. Sony's LCD panels are engineered for wide vertical and horizontal viewing angle—a critical advantage in professional monitoring.

White Balance Calibration

Sony's "high-grade" LUMA® monitors are calibrated at the factory for optimum color, brightness, and gamma. However, LCD performance can change over time and can require recalibration to restore the original performance. The LMD-1751W employs a software-based white balance calibration. Using a PC and the commercially-available X-Rite i1 calibration tool, you can restore the monitor to like-new performance. (The Sony LMD-2451W can also be upgraded to support this function.)

The LMD-1751W with a PC and X-Rite Eye-one(i1).

The LMD-2451W can be upgraded to support white balance calibration.

Input Versatility

Multi-format Signal Support – Up to 3G-SDI Input

The LMD-1751W accepts almost any SD or HD video format, both analog and digital. In the SD world, choose from NTSC or PAL, component 480/60i and 575/50i, progressive 480/60P and 576/50P. There's HD 1080/60i, 1080/50i, 720/60P, 1080/24P, 1080/25P, 1080/30P, 1080/24PsF and 1080/25PsF. The monitor even accepts 1080/50P and 1080/60P formats from a 3G-SDI input. In addition to the standard interfaces that cover composite, Y/C, RGB, and component, there are two slots for optional input adaptors. The monitor also supports analog and digital computer signals via the standard HD-15 and DVI-D* interfaces.

*1 Both 1080/50P and 1080/60P signals are accepted. The images are down-converted for display on the LMD-1751W.

Convenient Installation

Mounting Flexibility

Mounts in a 19-inch EIA Standard Rack

Seven rack units high, LMD-1751W installs in standard EIA racks using the optional MB-530 bracket. The monitor also accepts VESA standard 100 x 100 mm and 75 x 75 mm brackets for mounting to walls and ceilings.

The LMD-1751W with an optional MB-530 Mounting Bracket

The LMD-1751W with an optional stand, SU-561.

Ethernet Control

You can control up to 32 LMD-1751W monitors and up to four control units via Ethernet connection. The LMD-1751W enables you to select inputs, outputs, and adjust a range of settings. You're free to adjust individual monitors, groups of monitors or all connected monitors simultaneously.

Power-saving Mode

To reduce power consumption, the LMD-1751W can automatically go into a power-saving Standby mode whenever no input signal has been detected for over a minute.

Other Features

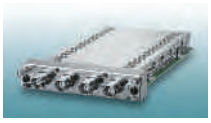
- Wave Form Monitor and Audio Level Meter windows (embedded audio only)
- Picture-by-Picture mode
- H/V Delay function
- ACC Off
- DC operation (12V)
- Setup Level for Analog Component and NTSC signals
- Sub Control on Contrast, Chroma, Phase, and Brightness
- Blue-only mode
- Monochrome mode
- Auto Chroma/Phase setup
- DVI-D input
- DDC-2B
- Color temperature
- Scan mode selection
- Smart APA
- Stereo audio monitoring
- Protected controls
- Closed-caption decoder with an optional BKM-244CC
- Advanced marker setting

The LMD-1751W with an optional stand, SU-561.
The LMD-1751W with an optional MB-530 Mounting Bracket

SPECIFICATIONS

Picture Performance		
Type		a-Si TFT Active Matrix LCD
Resolution (pixels)		1280 x 768
Picture Size (H x W) (Viewable area) (Diagonal)		Approx. 14 5/8 x 8 3/4 inches (Approx. 369.6 x 221.8 mm) Approx. 17 inches (431.1 mm)
Aspect		15:9
Colors		Approx 16,770,000 colors
Viewing Angle		85°/85°/85°/85° (typical) (up/down/left/right contrast>10:1)
Input		
Standard	Composite	BNC (x1), 1.0 Vp-p ±3dB sync negative
	Y/C	Mini DIN 4-pin (x1) Y: 1.0 Vp-p ± 3dB sync negative, C: 0.286 Vp-p ± 3dB (NTSC burst signal level), 0.3 Vp-p ± 3dB (PAL burst signal level)
	RGB, Component	BNC (x3) RGB : 0.7 Vp-p ± 3dB (Sync On Green, 0.3 Vp-p sync negative) Component : 0.7 Vp-p ± 3dB (75% chrominance standard color bar signal)
	External Sync	BNC (x1) 0.3 to 4.0 Vp-p ± bipolarity ternary or negative polarity binary
	Audio	Phono jack (x2) (L, R) -5 dBu 47 kilo ohms or higher
	HD15	D-sub 15-pin (x1), R/G/B: 0.7 Vp-p sync positive (Sync On Green, 0.3 Vp-p sync negative) Sync : Total level (polarity free, H/V separate and composite sync) Plug & Play function : corresponds to DDC-2B
	DVI-D	TMDS single link
	Parallel remote	Modular connector 8-pin (x1) (pin assignment at users' allocation)
	Serial remote (LAN)	D-sub 9-pin (RS-232C) (x1), RJ-45 modular connector (ETHERNET) (x1) (10BASE-T/100BASE-TX)
	DC in	XLR type 4-pin (x1) DC 12 V (output impedance 0.05 ohms or less)
Optional	Option input slot	2 slots (for HD-SDI, SDI capability and extra analog I/O's)
Output		
Standard	Composite	BNC (x1), Loop-through, with 75 ohms automatic termination
	Y/C	Mini DIN 4-pin (x1) Loop-through, with 75 ohms automatic termination
	RGB, Component	BNC (x3), Loop-through, with with 75 ohms automatic termination
	External Sync	BNC (x1), Loop-through, with 75 ohms automatic termination
	Audo monitor out	Phono jack (x2) (L, R)
	Speaker (Built-in)	1 W + 1 W (stereo)
General		
Power Requirement		AC 100 V to 240 V 50/60 Hz 0.8A to 0.4 A, DC 12 V, 5.7 A
Power Consumptio		Maximum Approx. 77 W (with 2 x BKM-229X)
Operating Temperature		32°F to 95°F (0°C to 35°C)
Recommended Operation Temperature		68°F to 86°F (20°C to 30°C)
Operating Humidity		30% to 85% (No condensation)
Storage & Transport Temperature		-4°F to +140°F (-20°C to +60°C)
Storage & Transport Humidity		0% to 90%
Operating/Storage/Trans. Pressure		700 hPa to 1060 hPa
Dimensions (W x H x D)		
	without stand	17 3/8 x 11 1/4 x 4 1/4 inches (439.5 x 284 x 105.0 mm)
	with optional stand	12 5/8 x 14 3/8 x 10 3/4 inches (439.5 x 385.7 x 269.9 mm)
Display Stand (W x H x D)		
	SU-561(Option)	12 5/8 x 14 3/8 x 10 3/4 inches (320.0 x 364.0 x 269.9 mm)
Weight	without stand and board	Approx. 13 lb 14 oz (6.3 kg)
	with optional stand and boards	Approx. 19 lb 6 oz (8.8 kg) with BKM-229X (x2)
Supplied Accessories		AC power cord (1), AC plug holder (1), Operating Instructions (1), CD-ROM (1), Using the CD-ROM Manual (1), Warranty book (1)

OPTIONAL Accessories



BKM-250TG
3G/HD/SD-SDI Input Adaptor

BKM-244CC
HD/SD-SDI Closed Caption Adaptor

BKM-243HS
HD/SD-SDI Input Adaptor

BKM-229X
Analog Component Adaptor

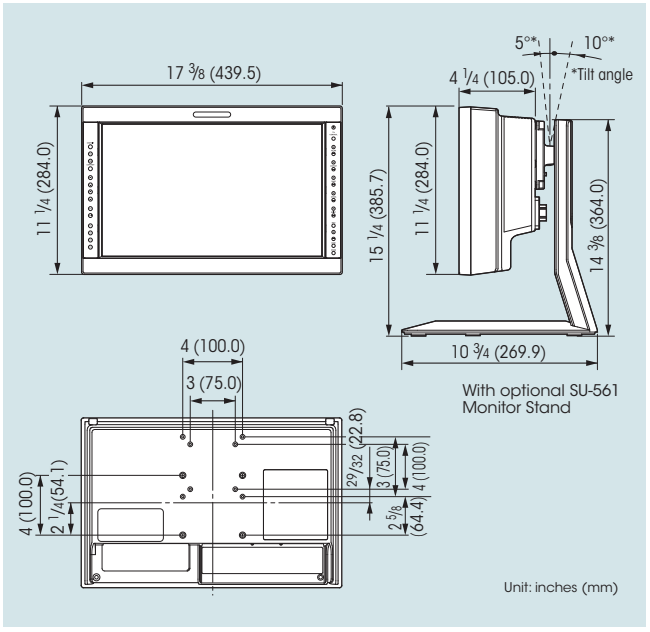
BKM-227W
NTSC/PAL Input Adaptor

BKM-220D
SD-SDI 4:2:2 Input Adaptor

MB-530
Mounting Bracket

SU-561
Monitor Stand

DIMENSIONS



Sony Electronics Inc.
1 Sony Drive
Park Ridge, NJ 07656
sony.com/professional

DI-0194 (MK10641V1)

Printed in USA (7/10)