

LMD-4250W

42-inch High Grade LCD Monitor



Full HD Multi-format LCD Monitor

The new LMD-4250W is an elegant 42-inch widescreen LCD monitor designed for demanding broadcast and professional applications. LCD displays are increasingly replacing CRT monitors in the professional arena due to their increased operational flexibility and lower overall cost of ownership.

Redefining high performance in the mid-market sector, the new model incorporates a full HD resolution 1920x1080 LCD panel, displaying high brightness and contrast images together with a superior viewing angle of 178 degrees. The LMD-4250W offers highly accurate and consistent colour reproduction through its unique Sony ChromaTRU technology. This allows assured picture quality decisions as well as facilitating close colour matching for tiling applications.

Responding to user preferences, the previously separate signal processing unit has been integrated into the monitor body whilst retaining the previous generation's convenience of light weight, minimal depth and outstanding installation flexibility.

New full digital 10-bit processing adds to the already impressive array of specifications, delivering smooth greyscale and colour transitions.

Further enhancements include a DVI-D input, enabling a third-party manufacturer's multi-image processor to be connected, an LCD backlight control and an Ethernet remote control function ideal for any monitor wall control. It also sports a picture-in-picture or side by side mode for greater user flexibility.

Entirely at home in broadcast, OB, production, post-production and corporate environments, the LMD-4250W accepts a wide variety of PC and Analogue video formats and optional decoder boards are available for standard and high definition digital video display.

Features

New High Definition 1920x1080 LCD Panel

Delivers outstandingly crisp, high brightness and high contrast images

Accurate and Repeatable Colour Reproduction

ChromaTRU technology ensures close CRT gamma matching throughout the product's life and delivers consistent colour temperature across the entire grey-scale range. Both control characteristics also assure extremely tight colour matching between different model samples.

Three settings are available to simulate EBU, SMPTE and ITU-709 colour reproduction.

New 178 Degree Viewing Angle

Class-leading horizontal and vertical viewing angle - ideal for group viewing.

New 10-bit Picture Processing

Delivers smooth colour and greyscale transitions for high quality video production.

Colour Temperature/Gamma Selection

High/low colour temperature or user presets can be selected.

Multi-Format Signal Support

Includes NTSC, PAL, component, RGB, Y/C, 480/60i, 575/50i, 480/60p, 576/50p, 1080/50i, 1080/60i, 720/50p, 720/60p, 1080/24psf, 1080/25psf, 1080/24p, 1080/25p, 1080/30p and variety of PC signals.

Signal Interface Options

The monitor can accept up to two optional video boards for additional video analogue or digital inputs (HD/SD SDI). Note that the new LMD-4250W is compatible with current decoder boards.

New Picture-In-Picture mode

Side by side or Picture-in-Picture (PiP) mode allows users to check two images on the same screen.

Selectable Scan Size and Aspect Ratio

Over-scan and Normal-scan as well as full scan is available, and aspect ratio can be switched between 16:9 and 4:3.

Multiple-Language On-Screen Display

English, French, Spanish, German, Italian, Japanese and Chinese.

Video Markers

Wide range available for TV and movie makers.

Remote Control Options

Three connection methods are available - serial RS232C, parallel 8-pin and a new serial RJ45 Ethernet link. The parallel connection allows up to 30 functions to be remotely controlled.

Centralised Monitor-Wall Control

Via the new serial RJ45 Ethernet connector

Stereo Audio Monitoring

The LMD-4250W is equipped with stereo speakers. Up to 16 embedded digital audio channels can be decoded and routed to the speakers. Analogue audio inputs are also catered for.

Smart Function Key Lighting

The key lighting contributes to the elegant design and enhances user functionality. And to increase flexibility, the lighting can be switched off to eliminate any visual disturbance when multiple displays are employed for tiling purposes.

Protected Controls

A key-inhibit switch prevents inadvertent operation from the control panel.

Benefits**Suitable for a Wide Range of Applications**

Ideal for BROADCAST (studio, office viewing, control room etc.), PRODUCTION (OB, monitor wall, VTR control, audio monitoring etc.), POST-PRODUCTION (mid-range multi-format editing consoles), CORPORATE (high-end multi-format use) and GRAPHIC DESIGN

Superb High Definition Display

Full HD 1920x1080 LCD panel delivers outstandingly sharp high brightness and contrast pictures

Perfect for Group Viewing

An ultra-wide viewing angle of 178 degrees makes this no problem

Outstanding greyscale and colour transitions provide lifelike picture quality

Thanks to full digital 10-bit processing.

Colour Quality Decisions can be made with Confidence

Innovative Sony ChromaTRU technology ensures consistent and repeatable colour to ITU-709, SMPTE and EBU standards and from monitor to monitor.

Consistently Optimal Picture Performance

Less 'drift' than CRT displays, with no convergence, geometry or linearity issues, and no susceptibility to magnetic fields.

Ideal for 'Tiling' Applications

Consistent and repeatable chroma and greyscale performance ensures close matching between monitors.

Productivity Boost

With new picture-in-picture and picture side by side functions.

Exceptionally Versatile

Equally suited to AV or IT-based applications due to a broad range of inputs and multi-format signal capabilities.

Future Proof

Slot structure for optional video decoder boards will ensure that the LMD-4250W remains current.

Easier to Install and Accommodate than CRT

Space saving / lightweight / low heat output - and ideal for Studio, OB or mobile applications

Air Conditioning Requirements lower than with CRT

LCD monitors generate less heat.

Low Maintenance

No routine convergence, geometry or linearity adjustments necessary. No susceptibility to magnetic fields.

Reduced Operator Fatigue

Flicker-free picture is more comfortable to view and reduces eye-strain.

Lower Total Cost of Ownership than CRT

Simpler and cheaper to install, transport and store. Long operational life / high reliability. Low energy bills. Low maintenance cost. Reduced environmental disposal costs.

Technical Specifications

Picture Performance	
Type	A-Si TFT Active Matrix LCD
Resolution	1920 x 1080 pixels (Full HD)
Picture Size (H x W)	Approx. 930 x 523 mm (Approx. 36 5/8 x 20 5/8 inches) Viewable area (Diagonal) Approx. 1067 mm (Approx. 42 inches)
Aspect	16:9
Colours	Approx 16,770,000 colours (8bits)
Viewing Angle	88°/88°/88°/88° (typical) (up/down/left/right contrast>10:1)

Input	
Standard	<p>Composite BNC x 1, 1.0 Vp-p ±3dB sync negative</p> <p>Y/C 4pin Mini DIN x 1 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)</p> <p>RGB, Component BNC x 3 RGB : 0.7 Vp-p ± 3dB (Sync On Green, 0.3 Vp-p sync negative) Component : 0.7 Vp-p ± 3dB (75% chrominance standard colour bar signal)</p> <p>External Sync BNC x 1 0.3 to 4.0 Vp-p ± bipolarity ternary or negative polarity binary</p> <p>Audio RCA phono pin x 2 (L, R) -5 dBu 47 k ohms or higher</p> <p>HD15 D-sub 15 pin x 1, 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</p>

	<p>DVI-D TMDS signal link w/HDCP</p> <p>Parallel remote Modular connector 8 pin x 1 (pin assignment at users' allocation)</p> <p>Serial remote (LAN) D-sub 9-pin (RS232C) x 1, RJ-45 modular connector (ETHERNET) x 1 (10BASE-T/100BASE-TX)</p>
Optional	<p>Option input slot 2 slots (for HD-SDI, SDI capability and extra Analogue I/O's)</p>

Output	
Standard	<p>Composite BNC x 1, Loop-though, with 75 ohms automatic termination</p> <p>Y/C 4pin mini DIN x 1 Loop-though, with 75 ohms automatic termination</p> <p>RGB, Component BNC x 3, Loop-though, with 75 ohms automatic termination</p> <p>External Sync BNC x 1, Loop-though, with 75 O automatic termination</p> <p>Audio monitor out RCA phono pin type x 2 (L, R)</p> <p>Speaker (Built-in) 1.0 W + 1.0 W (stereo)</p>

General	
Power Requirement	AC100V to 240V 50/60Hz 2.3A to 1.1A
Power Consumption	Maximum Approx. 230 W (with 2 x BKM-229X)
Operating Temperature	0 to 35 °C (recommended operation temperature 20 to 30°C)
Operating Humidity	30 to 85% (No condensation)
Storage & Transport Temperature	-20 to 60°C
Storage & Transport Humidity	0 to 90 %
Operating/Storage/Trans. Pressure	700 to 1060 hPa

Dimensions (W x H x D)	1027 x 616 x 130 mm (40 1/2 x 24 3/8 x 5 1/8 inch)
Mass	With two option boards Approx. 25 kg (55 lb 2 oz) with BKM-229X x 2 Without option boards Approx. 24.5 kg (54 lb)

Supplied Accessories	
	AC power cord
	AC plug holder
	Operating Instructions
	CD-ROM
	Warranty Card
	Using the CD-ROM Manual

Accessories

Control Units



BKM-15R

Control Unit For BVM-A Series

Monitors



BKM-220D

4:2:2 Sdi Input Adaptor



BKM-243HS

HDSDI/4:2:2 SDI Input Adaptor

Option Boards and Cables



BKM-227W

NTSC / PAL input adaptor for LMD monitors



BKM-229X

Analogue component input adaptor for LMD monitors

Support Plans



PrimeSupport Plus BC1

1-Year Additional Cover for Broadcast and Pro A/V Products