



LMD-1750W

17-inch Multi-format LCD Monitor



The new LMD-1750W is an elegant 17-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 ownership cost.

Redefining high performance in the mid-market sector, the new model incorporates a 1280x768 WXGA LCD panel, displaying high brightness and contrast images together with a superior viewing angle of 178 degrees. The LMD-1750W 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. A display stand and a rack mount accessories are available as an option.

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 monitor walls. It also sports a new on-screen audio level meter and video waveform display plus a picture-in-picture mode for greater user flexibility.

Entirely at home in broadcast, OB, production, post-production and corporate environments, the LMD-1750W 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 1280x768 WXGA 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 greyscale 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.

Enhanced 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 PC signals from VGA to WXGA.

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-1750W 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.

Enhanced Audio Level Meter and Video Waveform Monitor

On-screen displays enhance operational functionality.

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.

Three Colour Tally

The tally lamp can be lit via a parallel or serial remote connector and status identified by three colours: red, green or amber.

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-1750W 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.

VESA Mounting Standard

Simple table, wall or ceiling mounting

Native HD/SD picture mode

The LMD-1750W can display images in native mode (pixel to pixel) for both HD and SD input signal

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

1280x768 LCD panel delivers outstandingly sharp high brightness and contrast pictures

Perfect for Group Viewing

Improved black performance and Enhanced viewing angle of 178 degrees makes this monitor ideal for monitor wall configuration

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 on-screen audio level meter and video waveform monitor.

Exceptionally Versatile

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

Future Proof

Multi-format and HD capability plus optional decoder boards will ensure that the LMD-1750W remains current.

Indoor or Outdoor Operation

Can be powered by AC or DC power supplies.

Easier to Install and Accommodate than CRT

Space saving / lightweight / low heat output - and ideal for 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

General

Panel Type	a-Si TFT Active Matrix
Picture Size*	17-inch
	* Viewable area, measured diagonally.
Picture Resolution	1280 x 768 pixels
Panel Aspect Ratio	15:9
Panel Bit Depth	8 bit
Input/Output Capability	HD (Digital/Analogue)/SD (Digital/Analogue)
Acceptable Computer System	up to WXGA

Analogue video

Composite	BNC x 1 (IN), BNC x 1 (OUT**)
Y/C	** Loop-Through, Automatic Termination. 4-pin Mini-DIN x 1 (IN), 4-pin mini-DIN x 1 (OUT**)
Component/RGB	** Loop-Through, Automatic Termination. BNC x 3 (IN), BNC x 3 (OUT**)
HD-15	** Loop-Through, Automatic Termination. D-sub 15-pin x 1 (IN)
External Sync	BNC x 1 (IN), BNC x 1 (OUT**)
	** Loop-Through, Automatic Termination.

Digital interface

SD-SDI Input	BKM-220D, BKM-243HS
HD-SDI Input	BKM-243HS
SDI with Audio Decoding	Yes
HDMI	No
DVI-D	DVI-D x 1 (IN)
Option Boards	2 slots (BKM-244CC, BKM-243HS, BKM-220D, BKM-229X, BKM-227W)

Control

Parallel	Modular 8-pin x 1
Serial	D-sub 9-pin (RS-232C) x 1, RJ-45 modular connector (LAN, 10BASE-T/100BASE-TX) x 1

Audio

Audio Input/Output	Phono Jack x 2 (IN), Phono Jack x 2 (OUT)
Built-in Speaker Out	1.0W + 1.0W Stereo

Features

Signal Processing	10 bit
Colour Matching	ChromaTru
Marker	Aspect, Centre, Safety Area
Colour Temperature	9300k, 6500k, user
Closed Caption	EIA608 COMPOSITE (standard), EIA708 (BKM-244CC)
Aspect Switch	16:9, 4:3
Scan	0%, 5%
Blue Only	Yes
H/V Delay	Yes
Tally	3-Colour
Smart APA	Yes
EIA 19-inch Rack Mounting	MB-530
VESA Mounting	100 x 100 mm, 75 x 75 mm
Desk-top Stand	No
Li-ion Battery Operation	No
DC Operation	12V

Accessories

Monitors



BKM-220D

4:2:2 Sdi Input Adaptor



BKM-243HS

HDSDI/4:2:2 SDI Input Adaptor

Option Boards



BKM-227W

NTSC / PAL input adaptor for LMD monitors



BKM-229X

Analogue component input adaptor for LMD monitors

Other



SU-561

Monitor Stand

Rack Mount Kits



MB-530

Rack-Mount Bracket