

LMD-2110W

21.5-inch entry-level LCD monitor



Overview

Affordable high picture performance

The LMD-2110W is an elegant 21.5-inch widescreen LCD monitor specifically designed to provide reference video monitoring solution for entry-level video applications.

Its 21.5-inch size and Full HD (1920x1080) picture resolution makes this video monitor ideal in various applications such as entry-level non linear editing, videographer, high definition office viewing, security and medical, and some others.

A 10-bit processor ensures accurate picture reproduction with less image artefacts. Combined with a high purity filter, the LMD-2110W provides excellent colour depth for precise colour reproduction.

Equipped with a HDMI interface as standard, this new entry-level monitor is an ideal match for professional and semi-professional high-definition applications. This monitor can be used for desktop editing and office viewing applications with video or computer format input through DVI to HDMI conversion cable.

The LMD-2110W also supports both HD-SDI and SD-SDI with the optional BKM-341HS adaptor.

The LMD-2110W wins hands-down in terms of breadth of operation and performance when compared to standard PC monitors: - video image reproduction is far superior due to its moving picture optimisation circuitry and colour temperature and Gamma control.

Slim and lightweight, the LMD-2110W also offers outstanding installation flexibility. It has a table stand and VESA mount as standard enabling it to be easily placed on a desktop, in a monitor wall or on a ceiling.

Entirely at home in many professional environments, the LMD-2110W truly redefines high performance in the entry-level sector.

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

Ideal for many entry-level applications from office viewing and monitor wall in Broadcast and corporate environments, desktop monitor for non linear editing, reference video monitor for videographers, security and medical as well.

- **Cost-Effective Feature-Rich Performance**

The LMD-2110W offers professional functionality in an economic package. Optimised for moving picture reproduction, it delivers accurate colour rendition and greyscale – thanks to its CRT-like gamma curve. And it sports a wide range of video interfaces and professional features allowing confident video signal evaluation.

- **Superb High Resolution Display**

Equipped with a 16:9 Widescreen 1920x1080 LCD panel it delivers outstandingly sharp high brightness and contrast pictures

- **Comprehensive High-Definition Capability via HDMI input**

HDMI offers access to uncompressed digital video and audio signals. The range of applications using these connectors is expanding and HDMI is increasingly being employed.

- **Future Proof**

Multi-format and HDMI capability ensures that the LMD-2110W remains current.

- **Consistently Optimal Picture Performance**

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

- **Exceptionally Versatile**

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

- **Easier to Install and Accommodate than CRT**

Space saving / lightweight / low heat output.

- **Low Maintenance**

No routine convergence, geometry or purity 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.

Features

- **Full HD-resolution (1920 x 1080) LCD panel**

Delivers outstandingly crisp, high brightness and high contrast widescreen HD images with a fast transient response.

- **Cost-Effective Feature-Rich Performance**

The LMD-2110W offers professional functionality in an economic package. Optimised for moving picture reproduction, it delivers accurate colour rendition and greyscale – thanks to its CRT-like gamma curve. And it sports a wide range of video interfaces and professional features allowing confident video signal evaluation.

- **High-purity Colour Filter**

The LMD-2110W monitor provides high-brightness, high-contrast images thanks to its wide aperture LCD panel. In addition, the use of precisely manufactured RGB colour filter allows this monitor to reproduce colours with stunning depth and saturation - creating highly natural images.

- **109% Peak White and 10-bit Signal Processing**

Incorporating high-purity RGB colour filter and a 10-bit signal processing engine, the LMD-2110W monitor offers stunning 109% peak white reproduction without clipping and a smooth grey scale along CRT-like gamma.

- **Minimized Picture Delay**

Picture delay can be minimized for audio synchronization. Selecting LINE DOUBLER in I/P mode, the signal processing (I/P conversion) period is less than one field (0.5 frames).

- **Input Versatility**

The LMD-2110W is equipped with a full range of analogue SD inputs including composite NTSC/PAL, Y/C (S-Video), 525i/625i component, and RGB. This monitor can also handle SD-SDI input using an optional BKM-320D SD-SDI input adaptor. Furthermore, it offers an HD signal input capability via the HDMI and analogue component interface.

- **Optional HD/SD-SDI input**

With the BKM-341HS optional adaptor, the LMD-2110W supports both HD-SDI and SD-SDI input, with a higher picture quality and shorter depth compared to the BKM-320D SD-SDI input adaptor.

- **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 and 1080/30p. The LMD-2110W also accepts standard definition digital signals with an optional SD-SDI input adaptor.

- **HDMI input for High Definition Display**

Increasingly an interface of choice for entry-level production.

- **Colour Temperature Adjustment**

D65, D93 or user presets can be selected.

- **CRT-like Gamma Curve**

For accurate greyscale performance.

- **Selectable Scan Size and Aspect Ratio**

Normal scan (0%), Over-scan (5%) and Full scan is available. Also, aspect ratio can be switched between 16:9 and 4:3.

- **Three Colour Tally**

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

- **Video Markers**

Equipped with a central marker plus 4:3 and 16:9 markers for Over-scan and Normal-scan display.

- **Blue Only Mode**

In the blue only mode, a monochrome display is shown. This mode is convenient for chroma and phase adjustments and monitoring of signal noise.

- **Remote Control**

Via a programmable parallel remote interface.

- **Mono Audio Monitoring**

The LMD-21 10W is equipped with a mono speaker.

- **VESA Mounting (100x100mm)**

Desktop or simple wall / ceiling mounting.

- **19-inch Rack Mountable kit**

With optional MB-529 fixing kit.

- **External Sync**

The unit can be operated on the sync signal supplied from an external sync generator.

Technical Specifications

Picture Performance	
● Panel	a-Si TFT Active Matrix LCD
● Picture Size (Diagonal)	547 mm 21 5/8 inches
● Effective Picture Size (H x V)	447.0 x 268.0 mm 18 7/8 x 10 5/8 inches
● Resolution (H x V)	1920 x 1080 pixels (Full HD)
● Aspect	16:9
● Pixel Efficiency	0.9999
● Colors	Approx. 16.7 million colors
● Viewing Angle (Panel Specification)	80°/80°/85°/85° (typical) (up/down/left/right contrast 10:1)

Input	
● Composite Input	BNC (x1), 1 Vp-p ±3dB, negative synchronization
● Y/C Input	Mini DIN 4-pin (x1) Y: 1 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 Input	BNC (x3) RGB: 0.7 Vp-p ± 3dB (Sync On Green, 0.3 Vp-p negative sync.) Component: 0.7 Vp-p ± 3dB (75% chrominance standard color bar signal)
● HDMI Input	HDMI (x1) (HDCP correspondence)
● Audio Input	Phono jack (x2), -5 dBu 47 kΩ or higher
● External Sync Input	BNC (x1), 0.3 to 4.0 Vp-p negative polarity binary
● Option Input	D-sub 9-pin (x1), female
● Parallel Remote	Modular connector 8-pin (x1) (Pin-assignable)

Output	
● Composite Output	BNC (x1), Loop-through, with 75 Ω automatic terminal function
● Y/C Output	Mini DIN 4-pin (x1), Loop-through, with 75 Ω automatic terminal function
● RGB, Component Output	BNC (x3), Loop-through, with 75 Ω automatic terminal function
● External Sync Output	BNC (x1), Loop-through, with 75 Ω automatic terminal function
● Audio Monitor Output	Phono jack (x2), Loop-through
● Speaker (Built-in) Output	0.5 W (mono)

General	
● Power Requirements	100 V to 240 V AC, 1.3 A to 0.6 A, 50/60 Hz
● Power Consumption	Approx. 69 W (max.)
● Inrush Current	(1) Maximum possible inrush current at initial switch-on (Voltage changes caused by manual switching): 60A peak, 0.4A r.m.s. (240V AC) (2) Inrush current after a mains interruption of five seconds (Voltage changes caused at zero-crossing): 48A peak, 0.3A r.m.s. (240V AC)
● Operating Temperature	0°C to 35°C (Recommended: 20°C to 30°C) 32°F to 95°F (Recommended: 68°F to 86°F)

● Operating Humidity	30% to 85% (no condensation)
● Storage/Transport Temperature	-20°C to +60°C -4°F to +140°F
● Storage/Transport Humidity	0% to 90%
● Operating/Storage/Transport Pressure	700 hPa to 1060 hPa
● Dimensions (W x H x D) [*1]	515.0 x 355.0 x 86.0 mm (without a stand) 515.0 x 403.0 x 264.0 mm (with a supplied stand) 20 3/8 x 14 x 3 1/2 inches (without a stand) 20 3/8 x 15 7/8 x 10 1/2 inches (with a supplied stand)
● Mass	Approx. 8.6 kg Approx. 18 lb 15 oz
● Supplied Accessories	AC power cord (1) AC plug holder (1) Operating Instructions (1) CD-ROM (1) Using the CD-ROM Manual (1)
● Optional Accessories	MB-529 Mounting Bracket BKM-320D SDI Input Adaptor BKM-341HS HD/SD-SDI Input Adaptor

Notes

- | | |
|--------|---|
| ● Note | [*1] The values for dimensions are approximate. |
|--------|---|

Rack Mount Kits



MB-529
Rack-Mount Bracket