

# SONY®

# LMD-650

LCD Monitor



*The LMD-650 is a slim, lightweight 6.5-inch LCD monitor designed for professional use in a wide range of applications. Its portability and compact design make it ideal for outdoor applications with an optional rechargeable battery pack attached, or for fixed installations in OB vehicles and production environments where space is limited. The outstanding brightness of the LCD panel realizes superb picture quality even under high ambient lighting conditions. The design of the LMD-650 is the result of a thorough, in-depth evaluation of the requirements of professional operations, resulting in its outstanding range of features and functions.*

## Features

### • Slim and light design

Its light weight, only 2.2 lbs., and compact dimensions make the LMD-650 ideal for both portable use and for installation in space-critical environments.

### • High-brightness LCD panel

The high-brightness and high-contrast performance provided by the 6.5-inch LCD panel offers excellent picture quality under high ambient light conditions, including outdoor use.

### • Multi-layer AR-coated protection panel

The LCD panel adopts a four-layer anti-reflective coating that reduces diffused light reflection for clear, high-contrast image reproduction, and helps to protect the panel from damage.

### • Low power consumption and battery operation

The low power consumption of the LMD-650 makes it attractive for use in vehicles such as OB vans. It operates on 12 V DC or via a supplied AC adapter. Alternatively, an optional rechargeable battery pack can be attached, providing extended operating times for portable use of up to 6 hours with a Sony BP-L40A and 10 hours with a BP-L60A.

### • Versatile sliding stand functions

The monitor stand can also be used as a carrying handle. When not in use for either of these functions, it is stored in the rear panel where it protects the connectors.



Use as a carrying handle



Use as a monitor stand



Protects the connector panel

### • Viewing hood

A viewing hood is supplied as a standard accessory for use in bright sunshine.

### • NTSC/PAL operation

The LMD-650 accepts NTSC and PAL composite signals, with automatic switching.

### • Video

The LMD-650 accepts a composite video or Y/C signal.

### • Audio

The monitor incorporates a built-in audio amplifier, speaker and headphones jack for general and personal monitoring use.



Monitor with Viewing Hood

### • External remote control (parallel remote)

Selection of the composite video or Y/C input, aspect ratio, scan size, 4:3 zoom function and key inhibit function can all be controlled externally via the parallel remote connector.

### • Selectable aspect ratio

Aspect ratio is selectable between 4:3 and 16:9, depending on the video source.

### • Safety area marker

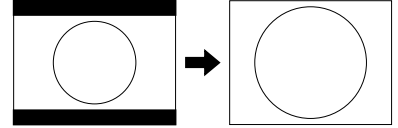
An 80% safety area marker can be viewed on-screen.

### • 4:3 Area marker

The 4:3 aspect area of a 16:9 picture can also be displayed.

### • 4:3 Zoom function

When a 16:9 format signal is input, the picture in the 4:3 area can be enlarged.



### • Overscan function

The display can be set to a 5% overscan mode.

### • On-screen menu

The LMD-650 is equipped with an on-screen menu for making adjustments and settings. The parameters displayed include contrast, brightness, chroma, phase, H/V shift, aperture, video input, over scan, safety marker, 4:3 marker, 4:3 zoom and factory preset.

### • Tripod mounting

The LMD-650 can be attached to a tripod that has a standard 1/4-inch screw fitting.

### • Optional rack Mounting Bracket MB-506

Two LMD-650s can be mounted in an EIA 19-inch rack with the MB-506. It occupies 4U of rack height, provides a tally lamp for each monitor and features a tilt function to adjust the viewing angle.

### • Accessories supplied

AC adapter (1), AC cord (1), Viewing hood (1), Viewing hood attachment screw (2), Warranty card (1), Operating instructions (1)

### • Optional accessories

Rechargeable Battery Packs BP-L40/L40A and BP-L60/L60A, Battery Charger BC-L100, rack Mounting Bracket MB-506

## Specifications

### Picture performance

LCD panel	a-Si TFT Active Matrix
Picture size	6.5 inches 640 x 480 pixels
Pixel efficiency	99.99%
Aspect ratio	4:3
Display colors	16,190,000 colors
Viewing angle	35°/45°/50°/50° (U/D/L/R, contrast >10 : 1)

### Input / output

VIDEO	IN: BNC connector, composite 1 Vp-p ± 2 dB, sync negative (75 ohms terminated)
	OUT: BNC connector, loop-through (75 ohms terminated automatically)
S-VIDEO	IN: 4-pin mini-DIN (male)
	Y (luminance) : 1 Vp-p ± 2 dB, sync negative (75 ohms terminated)
	C (chrominance) : burst 0.286 Vp-p ± 2 dB (NTSC), (75 ohms terminated) burst 0.3 Vp-p ± 2 dB (PAL), (75 ohms terminated)
	OUT: 4-pin mini-DIN (male), loop-through (75 ohms terminated automatically)

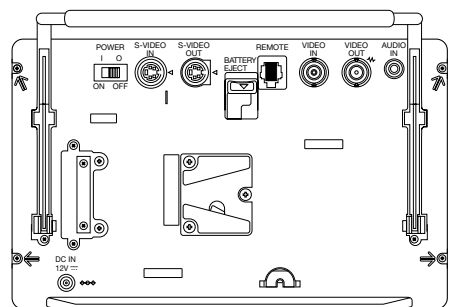
REMOTE	Modular connector 6-pin
AUDIO IN	Phono jack (monaural) 500 m Vrms, more than 47 kilo-ohms
Headphones output	Minijack (monaural) (Stereo headphones are usable.)
Speaker output	0.4 W (monaural, max.)

### General

Power consumption	Monitor: approx. 9 W (max.) When the supplied AC adaptor is used: approx. 12 W (max.)
Power requirement	12 V DC (with the supplied AC adaptor) Rechargeable Battery Pack (BP-L40/L40A, BP-L60/L60A, optional)
When this product is operated by AC adaptor:	
Peak inrush current	(1) Power ON. current probe method: 32 A (230 V) (2) Hot switching inrush current. measured in accordance with European standard EN55103-1: 7 A (230 V)
Dimensions (w/h/d)	Approx. 85/8 x 53/8 x 2 1/4 inches (217 x 135 x 55 mm)
Weight	Approx. 2 lb 3 oz (1.0 kg)

Operating conditions	Temperature: 0 to 35° C (32 to 95° F)
	Humidity: 30 to 85 %
	Pressure: 700 to 1.060 hPa
Transport and storage conditions	Temperature: -10 to 40° C (14 to 104° F)
	Humidity: 0 to 90%
	Pressure: 700 to 1.060 hPa

### Rear Panel



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