

# MON152CL

## 15-inch Color LCD Flat Panel Display Monitor



### Security Systems



- Provides 500 TV Lines Resolution
- Y/C (S-video) and Loop-through Composite Video & Audio Inputs
- Analog VGA Input
- Space Saving, Compact Design
- 50% Less Power Consumption than Conventional CRT Monitors
- NTSC & PAL Formats
- Picture-in-Picture Feature
- Universal Power Source
- Front Panel Control Lockout
- On-Screen Display (OSD) for Setup and Adjustment

Available in an ergonomic, aesthetically pleasing design, this state-of-the-art monitor includes a 38-cm (15-inch) color thin film transistor (TFT) active matrix LCD panel with 1024 by 768 pixels. Designed for the CCTV security marketplace, the MON152CL monitor includes two looping composite video inputs, two looping audio inputs, and one Y/C input.

Additionally, this model includes an analog VGA input to accommodate the increasing use of PC's and digital video devices in security applications. To enhance the multi-input capability, a "picture-in-picture" function has been added, allowing any of the composite video or Y/C inputs to be inserted into each other, or into the VGA input display when operating in the analog VGA mode.

Adjustment of standard monitor display parameters is made user-friendly via on-screen menus (available in several languages), and front panel controls. For additional security, the MON152CL includes a front panel lockout feature that disables the front panel control buttons.

Using long-life fluorescent backlights, the brightness level is maintained over time, because the LCD monitor design avoids the brightness degradation experienced with aging CRT-type monitors. It also provides a sharp display, free of the annoying flicker prevalent in CRT monitors, allowing longer use of your LCD monitor with little or no eyestrain. The versatile design allows it to automatically accept NTSC and PAL signal formats, and power supply voltages from 90 to 264 VAC.

Its compact styling, including an LCD panel width of 70 mm (3 inches), makes the MON152CL the color monitor of choice for large screen, space limited applications. With its wide range viewing angle, 140° in the horizontal and 120° in the vertical direction, the unit can be properly viewed whether installed on a desktop, wall mounted, or rack mounted in a standard 19-inch EIA rack.

Electrical	
<b>Rated Voltage</b>	120/230 VAC, 50/60 Hz
<b>Voltage Range</b>	90 to 264
<b>Power at Rated Voltage</b>	38 W
<b>Sync Format</b>	PAL/NTSC
<b>LCD Panel</b>	TFT LCD
<b>Screen Size</b>	304.1 (H) x 228.1 (V) mm (12 x 9 in)
<b>Viewable Picture Area</b>	38 cm (15 in) measured diagonally
<b>Pixel Pitch</b>	0.297 (H) x 0.297 (V) mm
<b>Resolution</b>	1024 x 768 pixels; 500 TV Lines Typical
<b>Aspect Ratio</b>	4:3
<b>Display Colors</b>	6 bits Interface; 16 million colors
<b>Backlight</b>	Four (4) cold Cathode Fluorescent Tubes, rated life 50,000 hours, at 50% brightness
Optical Characteristics	
<b>Luminance</b>	300 cd/m <sup>2</sup>
<b>Contrast Ratio</b>	500:1
<b>Viewing Angle</b>	140° horizontal, 120° vertical
Video Input	
<b>Composite Video (CVBS)</b>	1.0 Vp-p (0.5-1.5 Vp-p), Automatic switching from 75 Ω unbalanced termination to Hi-Z with loop-through operation
<b>Y/C (S-video)</b>	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ω termination
<b>Picture-in-Picture</b>	CVBS 1, CVBS 2, S-VHS
VGA Input	
<b>Analog RGB</b>	0.7 Vp-p (0.5-1 Vrms)
<b>Picture-in-Picture</b>	CVBS 1, CVBS 2, S-VHS
VGA Timing Modes	
	640 x 480      60/72/75 Hz
	800 x 600      56/60/72/75 Hz
	1024 x 768      60/70/75/85Hz
<b>Audio Input</b>	1.0 V line level
<b>Audio Output</b>	Loop-through Line Level Speaker: Two (2), 1 W

Controls	
<b>Front Panel</b>	Push-buttons
<b>Input</b>	Selects CVBS 1, CVBS 2, Y/C, or VGA Input
<b>Menu</b>	Selects On-Screen Display (OSD) ▲ Up Cursor, Brightness Select ▼ Down Cursor, Contrast Select ◀ Adjustment Decrease ▶ Adjustment Increase
<b>Power</b>	On/Off
<b>Front Panel Lockout</b>	Multiple Push-button combination
On-Screen Display	
<b>CVBS</b>	Tint (NTSC only), Color, Default, Language, Channel Title, 3-D Comb Filter, AGC, Underscan, PIP Menu, Power-on Options, Volume, Exit
<b>VGA</b>	Auto Set, Display Setting, Color Temperature, Language, Volume, Default, PIP Menu, Power-on Options, VGA Timing, Exit
Indicators	
<b>LED</b>	Power On (green), Standby (amber), Sleep Mode (flashing amber)
<b>On-Screen</b>	"No Signal" (flashing)
Connectors	
<b>Input 1</b>	Composite Video: Two (2) BNC (1 in, 1 out) Audio: Two (2) RCA (1 in, 1 out)
<b>Input 2</b>	Composite Video: Two (2) BNC (1 in, 1 out) Audio: Two (2) RCA (1 in, 1 out)
<b>Y/C (S-video)</b>	One (1) Mini-DIN, 4-pin (in only)
<b>VGA</b>	One (1) 15-pin D-sub
<b>Power Cord</b>	Two (2), 3-wire with grounded plug, 1.8 m (6 ft) long; one (1) with European Continental plug type and one (1) with U.S. plug type

Mechanical	
<b>Cabinet</b>	Material: ABS94V0 plastic Finish: Charcoal
<b>Dimensions</b>	
LCD Panel with Base	391 (W) x 183 (D) x 395 (H) mm (15.4 x 7.2 x 15.6 in)
LCD Panel Only	391 (W) x 70 (D) x 306 (H) mm (15.4 x 2.75 x 12 in)
<b>Weight</b>	LCD Panel with Base: 4.9 kg (10.8 lb) LCD Panel Only: 3.6 kg (8.0 lb)
Environmental	
<b>Temperature</b>	Operating: 0°C to +50°C (+32°F to 122°F) Storage: -20°C to +60°C (-4°F to 140°F)
<b>Humidity</b>	10%–95%, noncondensing
Product Regulatory Compliance	
<b>Electromagnetic Compatibility (EMC)</b>	
	Complies with FCC Part 15, ICES-003, and CE regulations
<b>Product Safety</b>	Complies with CE regulations, UL, CSA, EN, and IEC Standards
Accessories	
Wall Mount Adapter Bracket	VESA standard bracket, included
MON151PS Power Supply	120/220 VAC, 50/60 Hz input, 12 VDC, 4.0 A output. Used for operation away from the base
MON151RK Rack Mount Kit	For mounting one MON152CL monitor in an EIA standard 19-inch rack 1 unit wide by 7 rack units high

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