MON152CL30 15-inch Color LCD Flat Panel Display Monitor

The MON152CL30 is a high resolution, high performance liquid crystal display (LCD) video display monitor. Available in an ergonomic, aesthetically pleasing design, this state-of-the-art monitor includes a 38 cm (15 in.) color thin film transistor (TFT) active matrix LCD panel with 1024 by 768 pixels. Designed for the CCTV security marketplace, the MON152CL30 monitor includes two looping composite video inputs, two looping audio inputs, and one Y/C input.

Functions

Additionally, this model includes an analog VGA / digital DVI 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/DVI input display when operating in the VGA/DVI 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 MON152CL30 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 in.), makes the MON152CL30 the color monitor of choice for large screen, space limited applications. With its wide range viewing angle, 140° in horizontal and 125° in the vertical direction, the unit can be properly viewed whether installed on a desktop, wall mounted, or rack mounted in a standard 48 cm (19 in.) EIA rack.
## Technical Specifications

### Electrical
- **Rated Voltage**: 120/230 VAC, 50/60 Hz
- **Voltage Range**: 90 to 264
- **Power at Rated Voltage**: 42 W
- **Sync Format**: PAL/NTSC
- **LCD Panel**: TFT LCD
- **Screen Size (H x V)**: 304.1 x 228.1 mm (12 x 9 in.)
- **Viewable Picture Area**: 38 cm (15 in.) measured diagonally
- **Pixel Pitch (H x V)**: 0.297 x 0.297 mm (0.01 x 0.01 in.)
- **Resolution**: 1024 x 768 pixels; 500 TVL typical
- **Aspect Ratio**: 4:3
- **Display Colors**: 8 bits interface; 16.2 million colors
- **Response Time**: 16 ms
- **Backlight**: Four (4) cold cathode fluorescent tubes, rated life 50,000 hours, at 50% brightness

### Optical Characteristics
- **Luminance**: 400 cd/m²
- **Contrast Ratio (CR)**: 500:1
- **Viewing Angle**: 140° horizontal, 125° vertical @ CR ≥10

### Video Input
- **Composite Video (CVBS)**: 1.0 Vp-p (0.5–1.5 Vp-p), automatic switching from 75 Ohm unbalanced termination to Hi-Z with loop-through operation
- **Y/C (S-video)**: 0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ohm termination
- **Picture-in-Picture**: Video 1, Video 2, S-Video

### VGA Input
- **Analog RGB**: 0.7 Vp-p (0.5–1 Vrms)
- **Picture-in-Picture**: Video 1, Video 2, S-Video

### VGA Timing Modes
- **640 x 480, 60/72/75 Hz**
- **800 x 600, 56/60/72/75 Hz**
- **1024 x 768, 60/70/75/85 Hz**

### Audio Input
- **Audio Input**: 1.0 V line level

### Audio Output
- **Audio Output**: Loop-through line level
- **Speakers**: two (2), 1 W

### Controls
- **Front Panel**: Push-buttons
  - Input: Selects Video 1, Video 2, S-Video, VGA, or DVI input
  - Menu: Selects On-screen Display (OSD)
  - Power: On / Off
  - Front Panel Lockout: Multiple push-button combination

### On-screen Display
- **Video**: Tint (NTSC only), Color, Default, Language, Channel Title, Underscan, PIP Menu, Power-on Options, Volume, Exit
- **VGA/DVI**: Auto Set, Display Setting, Color Temperature, Language, Volume, Default, PIP Menu, Power-on Options, Information, Exit

### Indicators
- **LED**: Power On (green), Standby (amber), Sleep Mode (flashing amber)
- **On-Screen**: "No Signal" (flashing)

### Connectors
- **Video 1**: Composite video: two (2) BNC (1 in, 1 out) audio: two (2) RCA (1 in, 1 out)
- **Video 2**: Composite video: two (2) BNC (1 in, 1 out) audio: two (2) RCA (1 in, 1 out)
- **Y/C (S-video)**: One (1) mini-DIN, 4-pin (in only)
- **DVI**: One (1) VGA to DVI-I cable included
- **Power Cord**: Two (2), 3-wire with grounded plug, 1.8 m (6 ft) long. One (1) with a European/Continental plug type and one (1) with a U.S. plug type

### Mechanical
- **Cabinet**: Material: ABS94V0 plastic
  - Finish: Charcoal
  - Wall mounting compatible with standard bracket, 75 mm centers, M4 thread

### Dimensions
- **LCD Panel with Base**: 391 x 183 x 395 mm (15.4 x 7.2 x 15.6 in.)
- **LCD Panel Only**: 391 x 70 x 306 mm (15.4 x 2.75 x 12 in.)

### Weight
- **LCD panel with base**: 4.9 kg (10.8 lb)
- **LCD panel only**: 3.6 kg (8.0 lb)

### Environmental
- **Operating Temp.**: 0°C to 45°C (32°F to 122°F)
- **Storage Temp.**: –20°C to 60°C (–4°F to 140°F)
- **Humidity**: 10%–95%, non-condensing

### Product Regulatory Compliance
- **Electromagnetic Compatibility (EMC)**: Complies with FCC Part 15, ICES-003, and CE regulations

### Product Safety
- **Complies with CE regulations, CUL US, EN, and IEC Standards**

### Accessories
- **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 48.26 cm (19 in.) rack 1-rack unit wide by 7-rack units high.
Ordering Information

MON152CL30 15-inch Color LCD Flat Panel Display  F01U013630_01

Monitor
38 cm (15 in.), PAL/NTSC, 500 TV lines of high
resolution, PIP, CVBS, VGA and audio,
120/230 VAC, 50/60 Hz