BOSCH
Invented for life

MON152CL30 15-inch Color LCD Flat Panel Display Monitor

▶ Y/C (S-video) and loop-through video and audio inputs

▶ High resolution (500 TVL or XGA, 1024 x 768)

▶ High brightness (400 cd/m²)

▶ High contrast ratio (500:1)

▶ 3-D comb filter for high quality video

▶ PIP (3 sizes, up to 7.4 in.)

▶ Analog VGA / digital DVI input

▶ Auto power-on after power interruption

▶ Front panel control lockout

▶ 50% less power consumption than conventional CRT monitors

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/m^2
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	1.0 V line level
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) ▼ Up cursor, brightness select ▲ Down cursor, contrast select ◄ Adjustment decrease ► Adjustment increase
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 (W x D x H)	391 x 183 x 395 mm (15.4 x 7.2 x 15.6 in.)
LCD Panel Only (W x D x H)	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