BOSCH
Invented for life

MON150CL 15-inch Color LCD Flat Panel Display Monitor

- ▶ Provides 450 TV lines of resolution
- ▶ Y/C (S-video) and composite video inputs
- ▶ Analog VGA input
- ▶ Space saving, compact design
- ▶ 50% Less power consumption than conventional CRT monitors
- ▶ NTSC and PAL formats
- ▶ Universal power source
- ▶ On-screen display (OSD) for setup and adjustment

The MON150CL is a high resolution 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 1024 x 768 pixel LCD panel. Designed for the CCTV security marketplace, the MON150CL Monitor includes inputs for composite video, audio, and Y/C.

Additionally, this model includes an analog VGA input to accommodate the increasing use of PCs and digital video devices in security applications.

Adjustment of standard monitor display parameters is made user-friendly via on-screen menus (available in several languages), and front panel controls.

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 100 to 240 VAC.

Its compact styling, including an LCD panel width of 64 mm (2.5 in.), makes the MON150CL the color monitor of choice for large screen, space limited applications. With its wide range viewing angle, 120° in the horizontal

and 100° in the vertical direction, the unit can be properly viewed in a variety of positions.

Certifications and Approvals

Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations
Product Safety	Complies with CE regulations, UL, CSA, EN, and IEC Standards

Technical Specifications

Electrical

Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	100 to 240
Power at Rated Voltage	26 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
Resolution (H x V)	1024 x 768 pixels; 450 TV lines typical
Aspect Ratio	4:3
Display Colors	6 bit interface; 16 million colors
Response Time	16 ms
Backlight	Two (2) cold cathode fluorescent tubes, rated life 45,000 hours, at 50% brightness

Optical Characteristics

Luminance	250 cd/m^2
Contrast Ratio	400:1
Viewing Angle	120° horizontal, 100° vertical

Video Input

Composite Video (CVBS)	1.0 Vp-p (1.0-1.5 Vp-p)
Y/C (S-video)	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ohm termination

VGA Input

Analog RGB	0.7 Vrms
VGA Timing Modes	640 x 480, 60/72/75 Hz 800 x 600, 60/72/75 Hz 1024 x 768, 50/60/70/75 Hz
Audio Input	1.0 Vp-p/1 kHz
Audio Output	Speaker: Two (2), 1 W

Controls

Front Panel	Push-buttons
Auto	CVBS, S-VIDEO, RGB (VGA) Input
-	Adjustment decrease
+	Adjustment increase
Menu	Selects on-screen display (OSD)
Power	On/Off

On-Screen Display

Video	Contrast, Brightness, Tint, Color, Volume, Misc, Signal Source, Mode Select, Reset
OSD Menu	Language, H & V pos, Timer, Translucent

Indicators

LED	Power On (green)
	Standby (amber)
On-Screen	"No Signal" (flashing)

Connectors

Composite Video In	One (1) RCA jack
Audio In	One (1) 1/8-in. 3-cond. mini phone jack
Y/C (S-video)	One (1) mini-DIN, 4-pin (in only)
VGA	One (1) 15-pin D-sub
Power Input	5.5 mm DC input jack
Power Adapter (Included)	Input: 100-240 VAC, 50/60 Hz
	Output: 12 VDC, 3.4 A

Mechanical

Cabinet	Material: ABS94V0 plastic
	Finish: charcoal

Dimensions

LCD Panel with Base (H x D x W)	325 x 160 347 mm (12.8 x 6.3 x 13.7 in.)
LCD Panel Only (H x D x W)	319 x 64 347 mm (12.6 x 2.5 x 13.7 in.)
Weight	LCD Panel with Base: 3.1 kg (6.8 lb)
	LCD Panel Only: 2.6 kg (5.7 lb)

Environmental

Temperature	Operating: 0°C to 50°C (32°F to 122°F) Storage: −20°C to 60°C (−4°F to 140°F)
Humidity	95%, non-condensing at 40°C (104°F)

Ordering Information

MON150CL 15-inch Color LCD Flat Panel Display Monitor   899380058131

    38 cm (15 in.), PAL/NTSC, 450 TVL with audio, 1024 x 768 resolution, CVBS, S-VIDEO, RGB, 120/230 VAC, 50/60 Hz