



BOSCH
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MON172CL20 17-inch Color LCD Flat Panel Display Monitor



- ▶ Y/C (S-video) and loop-through video and audio inputs
- ▶ High resolution (500 TVL or SXGA, 1280 x 1024)
- ▶ High brightness (400 cd/m²)
- ▶ High contrast ratio (500:1)
- ▶ 3-D comb filter for high quality video
- ▶ PIP (3 sizes, up to 8.4 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 MON172CL20 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 43 cm (17 in.) color thin film transistor (TFT) active matrix LCD panel with 1280 by 1024 pixels. Designed for the CCTV security marketplace, the MON172CL20 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 analog 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 MON172CL20 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 84 mm (3 in.), makes the MON172CL20 the color monitor of choice for large screen, space limited applications. With its wide range viewing angle, 140° in horizontal and 130° 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	51 W (max)
Sync Format	PAL/NTSC
LCD Panel	TFT LCD
Screen Size (H x V)	337.9 x 270.3 mm (13.3 x 10.6 in.)
Viewable Picture Area	17 in. (43 cm) measured diagonally
Pixel Pitch (H x V)	0.264 x 0.264 mm (0.01 x 0.01 in.)
Resolution	1280 x 1024 pixels; 500 TV lines typical
Aspect Ratio	5:4
Display Colors	8-bit interface; 16.2 million colors
Response Time	8 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, 130° 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 Hz
	1280 x 1024, 60/75 Hz

Audio Input

	1.0 V line level
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Audio Output

	Loop-through line level Speaker: two (2), 1 W
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Controls

Front Panel	Push-buttons
Input	Selects Video 1, Video 2, S-Video, DVI, or VGA 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)	Two (2) mini-DIN, 4-pin (1 in, 1 out)
DVI-I	One (1) VGA to DVI-I cable included
Power Cord	Two (2), 3-wire with a 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
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Dimensions

LCD Panel with Base (W x D x H)	440 x 196 x 428 mm (17.3 x 7.7 x 16.9 in.)
LCD Panel Only (W x D x H)	440 x 84 x 375 mm (17.3 x 3.3 x 14.8 in.)

Weight

	LCD panel with base: 7 kg (15.42 lb)
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	LCD panel only: 5.4 kg (11.9 lb)
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Environmental

Operating Temp.	0°C to 45°C (32°F to 104°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
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Product Safety

	Complies with CE regulations, UL, CSA, EN, and IEC Standards
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Accessories

MON151PS Power Supply	120/220 VAC, 50/60 Hz input, 12 VDC, 4.0 A output. Used for operation away from the base.
MON171RK Rack Mount Kit	For mounting one MON172CL20 monitor in an EIA standard 48 cm (19 in.) rack 1 unit wide by 9 rack units high

Ordering Information

MON172CL20 17-inch Color LCD Flat Panel Display F01U013635_01
Monitor

43 cm (17 in.), PAL/NTSC, 500 TVL high resolution with audio, PIP, CVBS, VGA, 120/230 VAC, 50/60 Hz

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