



BOSCH
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MON201CL 20-inch Color LCD Flat Panel Display Monitor



- ▶ Provides 500 TV lines of resolution
- ▶ Loop-through composite video, Y/C (S-video) and audio inputs
- ▶ Analog VGA input 800 x 600 max. Software scalable to 1024 x 768
- ▶ NTSC and PAL formats
- ▶ Universal power source
- ▶ Front panel control lockout
- ▶ On-screen display (OSD) for setup and adjustment
- ▶ 12 VDC power outlet for public view monitoring

Designed for the CCTV security marketplace, the MON201CL monitor includes two looping composite video inputs, two looping audio inputs, and one looping Y/C input. Additionally, this model includes an analog VGA input to accommodate the increasing use of 'PCs' and digital video devices in security applications. The MON201CL has been tested for compatibility of operation with analog output devices such as the Allegiant Matrix Switcher System, the Divar Digital Recorder, and standard multiplexers. It is also recommended for use with devices and systems with VGA output of 800 x 600 maximum resolution. In addition, in applications where required, the MON201CL is scalable via on-board software to be compatible with a 1024 x 768 resolution VGA source. The versatile design allows it to automatically accept NTSC and PAL signal formats, and power supply voltages from 96 to 256 VAC. When connected to multiplexer devices, the underscan function provides a multi-screen display of individual cameras without loss or distortion of images.

Its compact styling, including an LCD panel width of 86 mm (3.4 in.) and wide range viewing angle, makes the MON201CL an excellent choice for space limited and public view applications. Specific features to support public view monitoring include a DC power outlet for a

12 VDC camera; user friendly on-screen menus accessible via front panel controls or a remote control transmitter; and a front panel lockout feature to prevent access once monitor set up is completed.

Certifications and Approvals

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

Technical Specifications

Electrical

Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	96 to 256 VAC
Power at Rated Voltage	55 W
Sync Format	Auto-sensing
NTSC	525 lines, 60 fields/sec.
PAL	625 lines, 50 fields/sec.
LCD Panel	TFT LCD
Screen Size (H x V)	408 x 306 mm (16.1 x 12.0 in.)
Viewable Picture Area	51 cm (20.1 in.) measured diagonally
Pixel Pitch: (H x V)	0.51 x 0.51 mm (0.02 x 0.02 in.)
Resolution	500 TVL
Aspect Ratio	4:3
Display Colors	16.8 million colors
Response Time	16 ms
Backlight	Four (4) cold cathode fluorescent tubes, rated life 50,000 hours, at 50% bright- ness

Optical Characteristics

Luminance	500 cd/m ²
Contrast Ratio	500:1
Viewing Angle	160° horizontal, 120° vertical

Video Input

Composite Video (CVBS)	1.0 Vp-p (0.5–2.0 Vp-p), automatic switching from 75 Ohm unbalanced ter- mination to Hi-Z with loop-through oper- ation
Y/C (S-video)	1.0 Vp-p (0.5–2.0 Vp-p), automatic switching from 75 Ohm unbalanced ter- mination to Hi-Z with loop-through oper- ation

VGA Input

Analog RGB	0.707 Vp-p/75 Ohm
VGA Timing Modes	640 x 480 60/72/75 Hz
	800 x 60 56/70/72/75 Hz
	1024 x 768 60 Hz (scalable)

Audio Input	Level: 1.0 Vp-p/1 kHz
Audio Output	Loop-through line level Speaker: two (2), 4 W

Controls

Front Panel	Push-button
Input	Select CVBS 1, CVBS 2, Y/C, or VGA in- put
Menu	Selects on-screen display (OSD)
Select	Selects sub-menu item
Adjust	Adjustment decrease Adjustment increase

Power	On/Off
Front Panel Lockout	Select from General OSD menu
Remote Control	Controls monitor functions

On-screen Display

General	Language, Backlight, Power-on Option, Key Lock, Volume, Treble, Ban Balance
Video	Brightness, Contrast, Color, Tint (NTSC only), Sharpness, Color Temperature, Video System, Comb Filter, Scan Mode, Display, Default
VGA	Auto, Brightness, Contrast, H-position, V-position, Clock, Phase, Color Temperature, White Balance, Display, Default

Indicators

LED	Power-on (green), standby, (amber)
On-screen	Video loss

Connectors

Input 1	Composite Video: two (2) BNC (1 in, 1 out) audio: four (4) RCA (2 in, 2 out; left, right)
Input 2	Composite Video: Two (2) BNC (1 in, 1 out) audio: four (4) RCA (2 in, 2 out; left, right)
Y/C (S-video)	Two (2) mini-DIN, 4-pin (1 in, 1 out)
VGA	One (1) 15-pin D-sub
DC Power Output	Bayonet connector, 12 VDC regulated, 500 mA
Power Cord	Two (2), 3-wire with grounded plugs, 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: metal, Finish: charcoal, Wall-mounting: compatible with VESA standard bracket, 100 mm (3.94 in.) centers
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Dimensions

LCD Panel with Base (W x D x H)	461 x 178 to 229 x 397 mm (18.12 x 7 to 9 x 15.62 in.)
LCD Panel Only (W x D x H)	461 x 86 x 397 mm (18.12 x 3.38 x 15.62 in.)
Weight	7.3 kg (16.1 lb)

Environmental

Temperature	Operating: 0°C to 60°C (32°F to 140°F) Storage: -20°C to 60°C (-4°F to 140°F)
Humidity	10% to 95%, non-condensing

Ordering Information

Model | Description

MON201CL 20-inch Color LCD Flat Panel Display Monitor
51 cm (20 in.), PAL/NTSC, 500 TVL with audio, 800 x 600 resolution, CVBS,
VGA, Y/C, 120/230 VAC, 50/60 Hz

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