

UML Series 27-inch High Performance HD LED Monitor

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BOSCH

Invented for life



- ▶ Full HD 1920 x 1080 resolution
- ▶ Precise color reproduction
- ▶ HDMI, DVI, VGA, S-Video inputs
- ▶ Fast response time
- ▶ High contrast ratio of 3,000:1

The Bosch UML-273-90 High Performance LED monitor is a 1080p Full HD resolution color monitor ideal for use with analog video, digital video recorders (DVRs), and with PC applications. The monitor features a color LCD flat-screen panel with a 27-inch viewable picture area. The monitor features a wide range of horizontal and vertical viewing angles that provide comfortable, clear viewing – whether you mount it to a wall or to a ceiling.

Functions

Excellent image quality

The Bosch High Performance HD LED monitors automatically adapt to the input resolution of the incoming video signal, and support up to 1920 x 1080 resolution (Full HD). The monitor's analog VGA input easily accommodates the widespread use of PCs in today's security surveillance systems. Their high contrast ratio (3000:1) and a high brightness setting offers excellent color accuracy and imaging for easier viewing and interpretation of images. The panel refreshes every 12 milliseconds, so you get crisp, clear images with less smearing - and less image "ghosting" in fast-motion video.

True color enhancement

The monitors provide true color performance. The monitors automatically focus on setting the correct color, temperature, and gamma curve settings to deliver the highest possible picture quality.

Certifications and approvals

Region	Safety Certification
Canada	cUL
Europe	EN60950, CE Declaration of Conformity, CB scheme
USA	UL60950

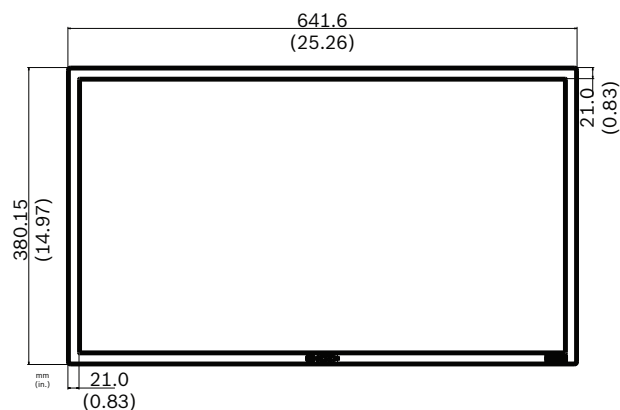
Electromagnetic Compatibility (EMC)

Emission	EN55022:2010 class B, FCC part 15 class B
Immunity	EN55024:2010, EN50130-4:2011

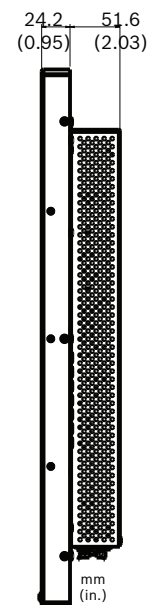
Environmental

Vibration and Shock

Installation/configuration notes



UML-273-90: Front View



UML-273-90: Side View

Parts included

Quant.	Component
1	Bosch Full HD Color LED Flat Panel Monitor
2	Power Cords, 3-wire with grounded plug 1.8 m (6 ft) long: one with a U.S plug type and one with a European Continental plug type
1	Desktop stand
1	DVI-D to DVI-D cable, 1.8 m (6 ft)
1	VGA to VGA (D-Sub), cable, 1.8 m (6 ft)
1	Trigger cable
1	Remote control
2	AAA batteries for remote control

- 1 Installation Manual (English)
- 1 CD-ROM with multi-language Installation Manual

Technical specifications

Electrical

Rated Voltage	120/230 VAC, 50/60 Hz
Voltage Range	100–240 VAC, 50/60 Hz
Frequency	Horizontal: 60–73 KHz Vertical: 47–63 Hz
Power at Rated Voltage	
• On	75 W
• Active Off	0.5 W

Video

Sync Format	PAL/NTSC
LCD Panel	LED
Viewable Picture Area	27 in.
Active Display Area (H x V)	597.6 x 336.15 mm (23.53 x 13.23 in.)
Pixel Pitch (H x V):	0.31125 x 0.31125 mm
Resolution ¹	1920 x 1080
Aspect Ratio	16:9
Display Colors	16.7 million
Response Time	12 ms (typical)
Backlight	30,000 hours

1. Pixel Policy: Bosch monitors follow the ISO 13406-2 Class II standard.

LCD Panel Optical Characteristics

Luminance	300 cd/m ² (typical)
Contrast Ratio	3000:1 (typical)
Viewing Angle	Horizontal/Vertical: 178°, typical

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 passive loop-through operation
Y/C (S-video)	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ohm termination
Component	Y, Pb, Pr
Digital Inputs	DVI D and HDMI
VGA (RGB PC)	0.7 Vp-p (0.5–1 Vrms)
Audio Input	2.0 V line level, mono

Timing Modes

RGB and DVI	HDMI
640 x 480 (60/72/75 Hz)	640 x 480 (60/72/75 Hz)
720 x 400 (70 Hz)	720 x 400 (70 Hz)
800 x 600 (60/75 Hz)	800 x 600 (60/75 Hz)
1024 x 768 (60/75 Hz)	1024 x 768 (60/75 Hz)
1280 x 768 (60 Hz)	1280 x 768 (60 Hz)
1280 x 960 (60 Hz)	1280 x 960 (60 Hz)
1280 x 1024 (60 Hz)	1280 x 1024 (60 Hz)
1360 x 768 (60 Hz)	1360 x 768 (60 Hz)
1366 x 768 (60 Hz)	1366 x 768 (60 Hz)
1600 x 1200 (60 Hz)	1600 x 1200 (60 Hz)
1920 x 1080 (60 Hz)	1920 x 1080 (60 Hz)
	480i (60 Hz)
	480p (60 Hz)
	576i (50 Hz)
	576p (50 Hz)
	720p (50/60 Hz)
	1080i (50/60 Hz)
	1080p (50/60 Hz)

Controls

Input	
Rear Control Panel	Push-buttons
Video Source	Selects: Component Video, S-video, VGA, HDMI, DVI-D
Menu	Selects on-screen display (OSD), up cursor, down cursor/auto adjust, left cursor, right cursor
Power	On/Off
Control Panel Lockout	Multiple push-button combination

On-screen Display

Video Mode	Input Source, Screen, OSD, Utility
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Indicators

LED	Power On (green) Power Off, Standby (red)
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Connectors

Video 1 (AV1)	Composite video: two (2) BNC (1 in, 1 out)
Digital	One (1) DVI-D

HDMI	One (1)
VGA	One (1): 1 RGB 15-pin D-sub in, 1 RGB 15-pin D-sub out
Component	One (1): Y, Pb, Pr
Y/C (S-video)	One (1) mini-DIN, 4-pin (1 in)
Audio	Five (5): 2 Audio In: RCA (right/left) 1 Audio In: phono jack 1 Audio Out: RCA (right/left) 1 Speaker Out
Trigger Input	One (1) 1/8 in. mini phono plug
Power Input	100 – 240 VAC

Mechanical

Cabinet Material	SECC
Finish	Black
Mount	Wall mounting compatible with standard bracket
VESA Mounting Compliance	100 x 200 mm (3.94 x 7.8 in.)

Dimensions (W x H x D)

Monitor	641.6 x 380.15 x 75.8 mm (25.26 x 14.97 x 2.98 in.)
With Packaging	756 x 561 x 253 mm (29.76 x 22.09 x 9.96 in.)

Weight

Monitor Weight	9.05 kg (19.95 lb), with stand
Shipping Weight	12.35 kg (27.23 lb)

Environmental

Operating Temperature	0°C to +50°C (32°F to 122°F)
Storage Temperature	0°C to +50°C (32°F to 122°F)
Humidity	0% to 90% Relative

Ordering information

UML-273-90 27-inch High Performance HD LED Monitor
Order number **UML-273-90**

Accessories**UMM-WMT-32 Tilt Wall Mount**

Tilt wall mount for a 27-in. or a 32-in. LED monitor, black
Order number **UMM-WMT-32**

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