

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 |

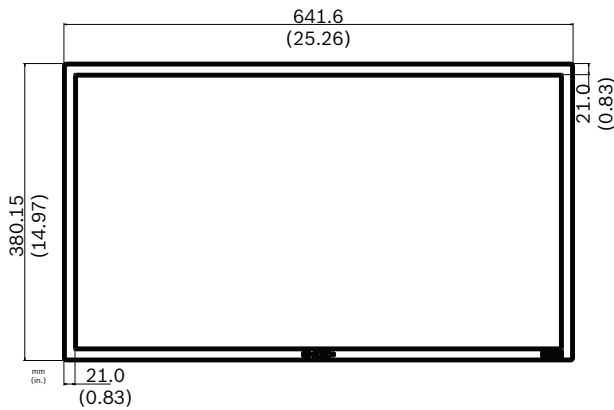
Electromagnetic Compatibility (EMC)

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

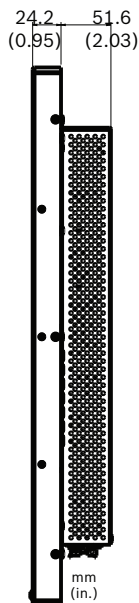
Environmental

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 |
| Indicators | |
| LED | Power On (green) Power Off, Standby (red) |
| 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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