

UML Series 32-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-323-90 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 32-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 6.5 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

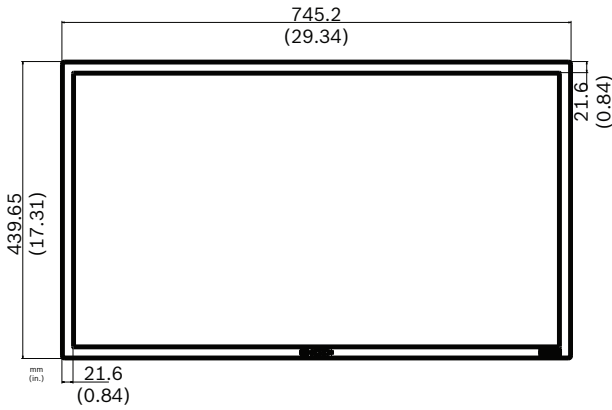
Electromagnetic Compatibility (EMC)

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

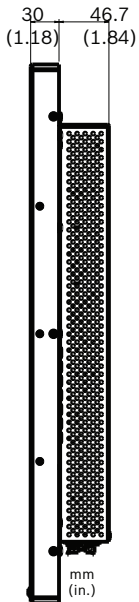
Environmental

Vibration and Shock
Level 5 Energy Star Certificate

Installation/configuration notes



UML-323-90: Front View



UML-323-90: Side View

- 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
- Table mount stand not included

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	32 in.
Active Display Area (H x V)	698.4 x 392.85 mm (27.5 x 15.5 in.)
Pixel Pitch (H x V):	0.3637 x 0.3637 mm
Resolution ¹	1920 x 1080
Aspect Ratio	16:9
Display Colors	1,073 million
Response Time	6.5 ms (typical)
Backlight	50,000 hours

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

LCD Panel Optical Characteristics

Luminance	350 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
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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	DVI-D to DVI-D cable, 1.8 m (6 ft)

Y/C (S-video)	0.7 Vp-p (Y-signal), 0.3 Vp-p (C-signal), 75 Ohm termination
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)
On-screen	VGA: Check input signal Video: Flashes “AV1” or “AV2” when there is a black screen

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	200 x 200 mm (7.87 x 7.8 in.)

Dimensions (W x H x D)

Monitor	745.2 x 439.65 x 76.7 mm (29.34 x 17.31 x 3.02 in.)
With Packaging	910 x 608 x 205 mm (35.83 x 23.94 x 8.1 in.)

Weight

Monitor Weight	12.5 kg (27.6 lb)
Shipping Weight	15.1 kg (33.3 lb)

Environmental

	All Models
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-323-90 32-inch High Performance HD LED Monitor

32-in. 1080p LED monitor with RGB, DVI, and HDMI inputs

Order number **UML-323-90**

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**

Accessories

UMM-LED32-SD Desktop Monitor Stand

Desktop stand for a 32 in. LED monitor, black

Order number **UMM-LED32-SD**

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