UML Series 42- and 55-inch High Performance HD LED Monitors

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- ▶ Full HD 1920 x 1080 resolution
- ▶ Precise color reproduction
- ► HDMI, DVI, VGA, S-Video inputs
- ► Trigger and Auto Switching features
- LED backlight panel for higher luminance and lower power consumption

The Bosch High Performance LED monitors are 1080p Full HD resolution color monitors ideal for use with analog video, digital video recorders (DVRs), and with PC applications. The monitors feature a color LCD flatscreen panel and are available with 42-inch or 55-inch viewable picture areas. Each 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 monitors' analog VGA input easily accommodates the widespread use of PCs in today's security surveillance systems. Their high contrast ratio (4000:1) and a high brightness setting offers excellent color accuracy and imaging for easier viewing and interpretation of images. The panel refreshes every eight 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

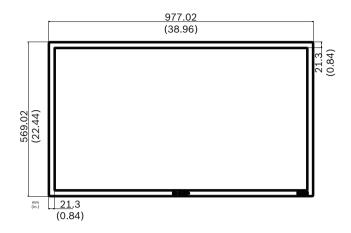
Electromagnetic Compatibility (EMC)

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

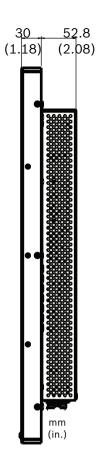
Installation/configuration notes



UML-423-90: Front View



UML-553-90: Front View



UML-423-90/UML-553-90: 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	1 DVI-D to DVI-D cable, 1.8 m (6 ft)
1	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

	UML-423-90	UML-553-90
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	150 W	170 W
Active Off	0.5 W	0.5 W

Video

	UML-423-90	UML-553-90
Sync Format	PAL/NTSC	PAL/NTSC
LCD Panel	LED	LED
Viewable Picture Area	42 in.	55 in.
Active Display Area (H x V)	930.24 x 523.26 mm (36.6 x 20.6 in.)	1209.6 x 648.4 mm (47.6 x 25.5 in.)
Pixel Pitch (H x V):	0.4845 x 0.4845 mm	0.21 x 0.21 mm
Resolution ¹	1920 x 1080	1920 x 1080
Aspect Ratio	16:9	16:9
Display Colors	1,073 million	1,073 million
Response Time	8 ms (typical)	6.5 ms (typical)
Backlight	50,000 hours	50,000 hours
1. Pixel Policy: Bosch monitors follow the ISO 13406-2 Class II standard.		

LCD Panel Optical Characteristics

	UML-423-90	UML-553-90
Luminance	500 cd/m² (typical)	450 cd/m² (typical)
Contrast Ratio	4000:1 (typical)	4000:1 (typical)
Viewing Angle	Horizontal/Vertical: 178°, typical	Horizontal/Vertical: 178°, typical

Video Input	All Models
Composite Video (CVBS)	$1.0\mbox{Vp-p}$ (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
VGA (RGB PC)	0.7 Vp-p (0.5–1 Vrms)
Audio Input	2.0 V line level, mono

Timing Modes	
RGB and DVI	
640 x 480	60/72/75 Hz
720 x 400	70 Hz

800 x 600	60/75 Hz
1024 x 768	60/75 Hz
1280 x 768	60 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1366 x 768	60 Hz
1600 x 1200	60 Hz
1920 x 1080	60 Hz
HDMI	
640 x 480	60/72/75 Hz
720 x 400	70 Hz
800 x 600	60/75 Hz
1024 x 768	60/75 Hz
1280 x 768	60 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1366 x 768	60 Hz
1600 x 1200	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	All Models
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	All Models
Video Mode	Input Source, Screen, OSD, Utility
Indicators	All Models
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	All Models
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

	All Models
Cabinet Material	SECC
Finish	Black
Mount	Wall mounting compatible with standard bracket
VESA Mounting Compliance	400 x 400 mm,

Dimensions (WxHxD)

	UML-423-90	UML-553-90
Monitor	977.02 x 569.92 x 82.8 mm (38.96 x 22.44 x 3.26 in.)	1256 x 726.8 x 82.8 mm (49.45 x 28.61 x 3.26 in.)
With Packaging	1234 x 786 x 275 mm (48.6 x 30.9 x 10.8 in.)	1379 x 850 x 273 mm (54.3 x 33.5 x 10.7 in.)
Weight		
Monitor Weight	20 kg (44.1 lb)	32 kg (70.5 lbs)
Shipping Weight	26 kg (57.3lb)	37 kg (81.6 lbs)

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-423-90 42-inch High Performance HD LED Monitor 42-in. 1080p LED monitor with RGB, DVI, and HDMI

inputs Order number **UML-423-90**

UML-553-90 55-inch High Performance HD LED Monitor

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

Order number UML-553-90

Accessories

ST660 Universal Tilt Wall Mount

Tilt wall mount for an LCD 37 in. to 60 in., black Order number **ST660**

UMM-LED42-SD Desktop Monitor Stand

Desktop stand for a 42 in. or a 55-in. LED monitor, black

Order number UMM-LED42-SD

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