

High Performance LED monitors

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Invented for life



- ▶ Precise color reproduction and anti-image retention
- ▶ DisplayPort, HDMI, DVI and VGA inputs
- ▶ SECC steel metal housing for better robustness, heat dissipation and shielding
- ▶ Complies with voltage dip immunity standards
- ▶ 4K resolution for the 55-inch monitor (UML-554-90)

The Bosch High Performance LED monitors are high resolution color monitors ideal for use in a video surveillance environment. The monitors feature a color LCD flat-screen panel and are available with 27-inch, 32-inch, 43-inch or 55-inch viewable picture areas. Each monitor features wide horizontal and vertical viewing angles, precise color reproduction and anti-image retention.

Functions

Excellent image quality

The Bosch High Performance LED monitors automatically adapt to the input resolution of the incoming video signal, up to 1920 x 1080 resolution (Full HD) on the 27-inch, 32-inch and 43-inch models, and even up to 3840 x 2160 resolution (4k) on the 55-inch model. The monitors' analog VGA input easily accommodates the widespread use of PCs in today's security surveillance systems. Their high contrast ratio and a high brightness setting offers excellent color accuracy and imaging for easier viewing and interpretation of images. With the monitors' fast refresh rates you get crisp, clear images with less smearing - and less image "ghosting" in fast-motion video.

Anti-image retention

The monitors' anti-image retention capability helps prevent image sticking or image burning that may occur in situations of displaying static scenes over a long period of time.

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.

Industrial grade monitors

The monitor is built from an industrial grade panel suitable for 24/7 usage.

USB for firmware upgrade

The firmware of the monitor can be upgraded by using the USB port.

DPMS

The monitor supports Display Power Management Signaling (DPMS) for power saving.

HDCP

The monitor supports High-bandwidth Digital Content Protection (HDCP) to allow playback off HDCP-encrypted content.

Certifications and approvals

Region	Safety Certification
Canada	cUL60950-1
Europe	EN60950-1, CE Declaration of Conformity, CB scheme
USA	UL60950-1

Electromagnetic Compatibility (EMC)

Emission	EN55032:2015 class B, FCC part 15 class B
Immunity	EN55024:2015, EN50130-4:2014

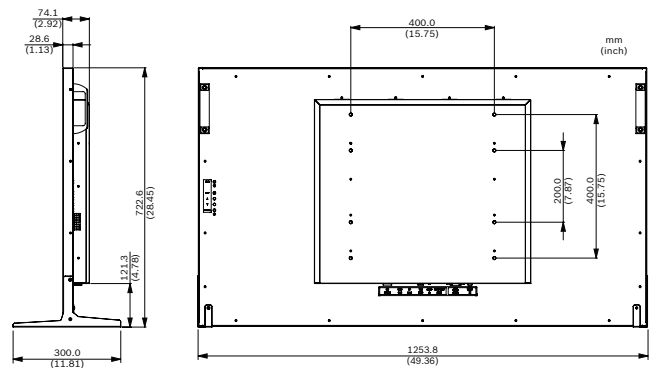
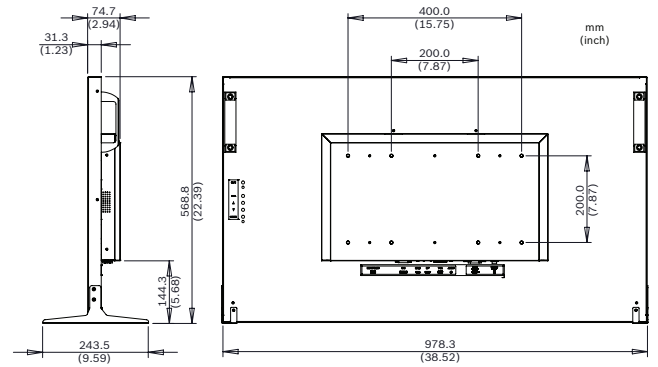
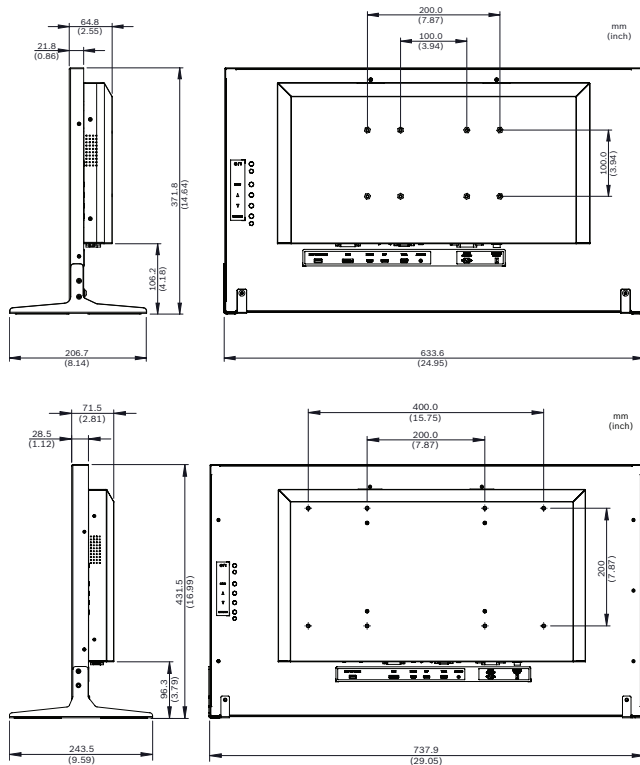
Environmental

Vibration and Shock
Level 7.1 Energy Star Certificate

Display class

ISO 13406-2 Class II

Installation/configuration notes



Technical specifications

Electrical

UML-274-90

Rated Voltage 100-240 VAC, 50/60 Hz

Voltage Range 100-240 VAC, 50/60 Hz

Power consumption

On <50 W

Standby <0.5 W

UML-324-90

Rated Voltage 100-240 VAC, 50/60 Hz

Voltage Range 100-240 VAC, 50/60 Hz

Power consumption

On <60 W

Standby <0.5 W

UML-434-90

Rated Voltage 100-240 VAC, 50/60 Hz

Voltage Range 100-240 VAC, 50/60 Hz

Power consumption

On	<75 W
Standby	<0.5 W

UML-554-90

Rated Voltage	100-240 VAC, 50/60 Hz
Voltage Range	100-240 VAC, 50/60 Hz

Power consumption

On	<155 W
Standby	<0.5 W

Video

UML-274-90

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.)
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.

UML-324-90

LCD Panel	LED
Viewable Picture Area	31.5 in.
Active Display Area (H x V)	698.4 x 392.85 mm (27.5 x 15.5 in.)
Resolution ¹	1920 x 1080
Aspect Ratio	16:9
Display Colors	16.7 million
Response Time	8 ms (typical)
Backlight	50,000 hours

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

UML-434-90

LCD Panel	LED
Viewable Picture Area	42.5 in.
Active Display Area (H x V)	940.90 x 529.25 mm (37.04 x 20.84 in.)
Resolution ¹	1920 x 1080

Aspect Ratio	16:9
Display Colors	16.7 million
Response Time	8 ms (typical)
Backlight	50,000 hours

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

UML-554-90

LCD Panel	LED
Viewable Picture Area	55 in.
Active Display Area (H x V)	1209.6 x 680.4 mm (47.6 x 26.79 in.)
Resolution ¹	3840 x 2160
Aspect Ratio	16:9
Display Colors	1.07 billion
Response Time	6.5 ms (typical)
Backlight	50,000 hours

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

Audio

Input	3.5 mm stereo jack
Output	2 x 2 W built-in speakers

Optical

UML-274-90

Luminance	350 cd/m ² (typical)
Contrast Ratio	3000:1 (typical)
Viewing Angle	Horizontal/Vertical: 178°, typical

UML-324-90

Luminance	500 cd/m ² (typical)
Contrast Ratio	3000:1 (typical)
Viewing Angle	Horizontal/Vertical: 178°, typical

UML-434-90

Luminance	400 cd/m ² (typical)
Contrast Ratio	3000:1 (typical)
Viewing Angle	Horizontal/Vertical: 178°, typical

UML-554-90

Luminance	450 cd/m ² (typical)
Contrast Ratio	4000:1 (typical)
Viewing Angle	Horizontal/Vertical: 178°, typical

Timing modes**UML-274-90 / UML-324-90 / UML-434-90**

Resolution	Frequency
640 x 400	85 Hz
640 x 480	60 Hz
800 x 600	60 Hz
1024 x 768	60 Hz
1152 x 864	75 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1440 x 1050	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz
1920 x 1080	60 Hz

UML-554-90

Resolution	Frequency
640 x 400	85 Hz
640 x 480	60 Hz
800 x 600	60 Hz
1024 x 768	60 Hz
1152 x 864	75 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1360 x 768	60 Hz
1440 x 1050	60 Hz
1440 x 900	60 Hz
1600 x 1200	60 Hz
1680 x 1050	60 Hz

1920 x 1080	60 Hz
3840 x 2160	60 Hz

Mechanical**UML-274-90**

Cabinet Material	SECC
Finish	RAL 9017 Traffic black
Mount	Wall mounting compatible with standard bracket
VESA Mounting Compliance	100 x 100 mm (3.94 x 3.94 in.) 100 x 200 mm (3.94 x 7.87 in.)

Dimensions (W x H x D)

Monitor	633.6 x 371.8 x 64.8 mm (24.94 x 14.64 x 2.55 in.)
With Packaging	758 x 508 x 218 mm (29.84 x 20.00 x 8.58 in.)

Weight

Monitor Weight	6.8 kg (15.0 lbs)
Shipping Weight	10 kg (22.0 lbs)

UML-324-90

Cabinet Material	SECC
Finish	RAL 9017 Traffic black
Mount	Wall mounting compatible with standard bracket
VESA Mounting Compliance	200 x 200 mm (7.87 x 7.87 in.) 400 x 200 mm (15.75 x 7.87 in.)

Dimensions (W x H x D)

Monitor	737.9 x 431.5 x 71.5 mm (29.05 x 16.99 x 2.81 in.)
With Packaging	873 x 573 x 223 mm (34.37 x 22.56 x 8.78 in.)

Weight

Monitor Weight	11.6 kg (25.6 lbs)
Shipping Weight	15.6 kg (34.4 lbs)

UML-434-90

Cabinet Material	SECC
Finish	RAL 9017 Traffic black
Mount	Wall mounting compatible with standard bracket
VESA Mounting Compliance	200 x 200 mm (7.87 x 7.87 in.) 400 x 200 mm (15.75 x 7.87 in.)

Dimensions (W x H x D)

Monitor	978.3 x 568.8 x 74.7 mm (38.52 x 22.39 x 2.94 in.)
With Packaging	1158 x 748 x 248 mm (45.59 x 29.45 x 9.76 in.)

Weight

Monitor Weight	18.6 kg (41.0 lbs)
Shipping Weight	24.4 kg (53.8 lbs)

UML-554-90

Cabinet Material	SECC
Finish	RAL 9017 Traffic black
Mount	Wall mounting compatible with standard bracket
VESA Mounting Compliance	400 x 200 mm (15.75 x 7.87 in.) 400 x 400 mm (15.75 x 15.75 in.)

Dimensions (W x H x D)

Monitor	1253.8 x 722.6 x 74.1 mm (49.36 x 28.45 x 2.92 in.)
With Packaging	1428 x 917 x 248 mm (56.22 x 36.10 x 9.76 in.)

Weight

Monitor Weight	30.5 kg (67.2 lbs)
Shipping Weight	37.6 kg (82.9 lbs)

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-274-90 27 inch FHD LED monitor**

High-performance full HD (1080p) 27-inch LED monitor.

Order number **UML-274-90**

UML-324-90 32 inch FHD LED monitor

High-performance full HD (1080p) 32-inch LED monitor.

Order number **UML-324-90**

UML-434-90 43 inch FHD LED monitor

High-performance full HD (1080p) 43-inch LED monitor.

Order number **UML-434-90**

UML-554-90 55 inch 4K LED monitor

High-performance UHD (4K) 55-inch LED monitor.

Order number **UML-554-90**

Accessories**UMM-LED27-SD desk stand for 27 inch monitor**

Tilt and swivel desk stand for UML-274-90 LED monitor.

Order number **UMM-LED27-SD**

UMM-LW-30B Wall mount for monitor, tilt/swivel

Swivel/tilt wall mount for an LCD monitor up to 12 kg (26.5 lb), black.

Order number **UMM-LW-30B**

UMM-WMT-32 wall mount for monitor 32 inch, tilt

Tilt wall mount for a monitor (32 inch). Black

Order number **UMM-WMT-32**

ST650 Wall mount for monitor 37"to75", tilt

Tilt wall mount for a monitor (37 to 75 inch), black.

Order number **ST650**

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