

# UML-324-90 32 inch FHD LED monitor

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**BOSCH**  
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
- ▶ Easy to use controls with remote and on-screen menu display

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              |

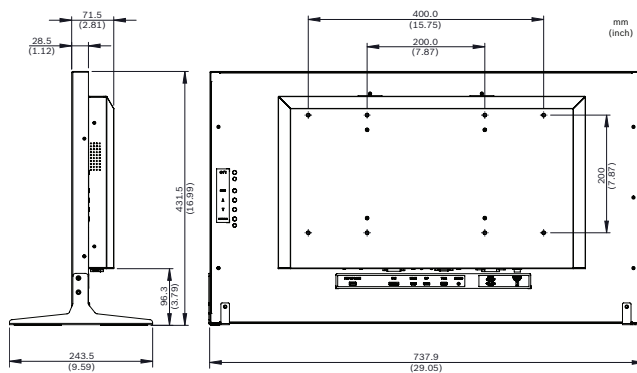
### Environmental

Vibration and Shock  
Level 7.1 Energy Star Certificate

### Display class

ISO 13406-2 Class II

### Installation/configuration notes



### Parts included

| Quantity | Component                                                              |
|----------|------------------------------------------------------------------------|
| 1        | Bosch high performance LED monitor                                     |
| 1        | Power Cord, 3-wire grounded plug with a U.S plug type                  |
| 1        | Power Cord, 3-wire grounded plug with a European Continental plug type |
| 2        | Desktop stand: left side and right side                                |
| 6        | Mounting screws                                                        |
| 1        | HDMI to HDMI cable                                                     |
| 1        | VGA to VGA cable                                                       |
| 1        | DisplayPort to DisplayPort cable                                       |
| 1        | DisplayPort to miniDisplayPort converter                               |
| 1        | Audio-in cable                                                         |

| Quantity | Component                        |
|----------|----------------------------------|
| 1        | Remote control                   |
| 2        | AAA batteries for remote control |
| 1        | Quick Installation Guide         |

### Technical specifications

#### Electrical

##### 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                |

#### Video

##### 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 <sup>1</sup>     | 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.

#### Audio

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

#### Optical

##### UML-324-90

|                |                                    |
|----------------|------------------------------------|
| Luminance      | 500 cd/m <sup>2</sup> (typical)    |
| Contrast Ratio | 3000:1 (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 |

**Mechanical**

**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.)<br>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<br>(29.05 x 16.99 x 2.81 in.) |
| With Packaging | 873 x 573 x 223 mm<br>(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) |

**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-324-90 32 inch FHD LED monitor**

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

Order number **UML-324-90**

**Accessories**

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

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

Order number **UMM-WMT-32**

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