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

<table>
<thead>
<tr>
<th>Region</th>
<th>Safety Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>cUL60950-1</td>
</tr>
<tr>
<td>Europe</td>
<td>EN60950-1, CE Declaration of Conformity, CB scheme</td>
</tr>
<tr>
<td>USA</td>
<td>UL60950-1</td>
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</table>

Electromagnetic Compatibility (EMC)

<table>
<thead>
<tr>
<th>Emission</th>
<th>EN55032:2015 class B, FCC part 15 class B</th>
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</thead>
<tbody>
<tr>
<td>Immunity</td>
<td>EN55024:2015, EN50130-4:2014</td>
</tr>
</tbody>
</table>

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
- Power consumption: <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

### Voltage Range
- 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

#### 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

#### UML-434-90
- LCD Panel: LED
- Viewable Picture Area: 42.5 in.
- Active Display Area (H x V): 940.9 x 529.25 mm (37.04 x 20.84 in.)
- Resolution\(^1\): 1920 x 1080

### 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/m² (typical)  
**Contrast Ratio**: 4000:1 (typical)  
**Viewing Angle**: Horizontal/Vertical: 178°, typical

### Timing modes

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td>640 x 400</td>
<td>85 Hz</td>
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<tr>
<td>640 x 480</td>
<td>60 Hz</td>
</tr>
<tr>
<td>800 x 600</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1152 x 864</td>
<td>75 Hz</td>
</tr>
<tr>
<td>1280 x 960</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1280 x 1024</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1360 x 768</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1440 x 1050</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1440 x 900</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1600 x 1200</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1680 x 1050</td>
<td>60 Hz</td>
</tr>
<tr>
<td>1920 x 1080</td>
<td>60 Hz</td>
</tr>
</tbody>
</table>

### 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.)  
- **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.)  
- **Weight**: Monitor Weight 6.8 kg (15.0 lbs)  

**UML-324-90**

- **Cabinet Material**: SECC  
- **Finish**: RAL 9017 Traffic black  
- **Mount**: Wall mounting compatible with standard bracket  
- **VESA Mounting Compliance**: 100 x 200 mm (3.94 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.)  
- **Weight**: Monitor Weight 11.6 kg (25.6 lbs)  

**UML-434-90**

- **Cabinet Material**: SECC  
- **Finish**: RAL 9017 Traffic black  
- **Mount**: Wall mounting compatible with standard bracket  
- **VESA Mounting Compliance**: 100 x 200 mm (3.94 x 7.87 in.)  
- **Dimensions (W x H x D)**: Monitor 873 x 573 x 223 mm (34.37 x 22.56 x 8.78 in.)  
- **Weight**: Monitor Weight 15.6 kg (34.4 lbs)
### Monitor Dimensions

<table>
<thead>
<tr>
<th></th>
<th>Monitor</th>
<th>With Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monitor</strong></td>
<td>978.3 x 568.8 x 74.7 mm (38.52 x 22.39 x 2.94 in.)</td>
<td></td>
</tr>
<tr>
<td><strong>With Packaging</strong></td>
<td>1158 x 748 x 248 mm (45.59 x 29.45 x 9.76 in.)</td>
<td></td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th></th>
<th>Monitor Weight</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monitor</strong></td>
<td>18.6 kg (41.0 lbs)</td>
<td></td>
</tr>
<tr>
<td><strong>Shipping</strong></td>
<td>24.4 kg (53.8 lbs)</td>
<td></td>
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</tbody>
</table>

### 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.)

### 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" to 75", tilt**
  - Tilt wall mount for a monitor (37 to 75 inch), black.
  - Order number: **ST650**