

# UML Series 17-, 19-, 20-inch High-performance LCD Flat Panel Monitors

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**BOSCH**  
Invented for life



- ▶ High-resolution—500 TVL, 1600 x 1200 (UML-202-90) or 1280 x 1024 (UML-192-90 and UML-172-90)—image
- ▶ Picture-in-Picture or split screen function for viewing video on the PC screen
- ▶ Analog RGB, digital DVI, and digital HDMI inputs
- ▶ Two (2) composite BNC inputs and loop-through outputs
- ▶ Y/C (S-video) and loop-through video and audio inputs

The Bosch family of high-performance LCD monitors are high-resolution (SXGA / UXGA), high-performance liquid crystal display (LCD) video display monitors which can be used as an operator display with the DCN Automatic Camera Control software. Available in an ergonomic and aesthetically pleasing design, these state-of-the-art monitors include a color thin film transistor (TFT) active matrix LCD panel.

## Technical specifications

### Electrical

|                        | UML-172-90            | UML-192-90            | UML-202-90            |
|------------------------|-----------------------|-----------------------|-----------------------|
| Rated Voltage          | 110/230 VAC, 50/60 Hz | 110/230 VAC, 50/60 Hz | 110/230 VAC, 50/60 Hz |
| Voltage Range          | 90-256 VAC            | 90-256 VAC            | 90-256 VAC            |
| Power at Rated Voltage | <45 W                 | <50 W                 | 70 W                  |
| Sync Format            | PAL/NTSC              | PAL/NTSC              | PAL/NTSC              |
| LCD Panel              | TFT LCD               | TFT LCD               | TFT LCD               |

|                       |  |  |  |
|-----------------------|--|--|--|
| Screen Size (H x V)   | 338 x 270 mm (13.3 x 10.6 in.)           | 376 x 301 mm (14.8 x 11.9 in.)           | 408 x 306 mm (16 x 12 in.)               |
| Viewable Picture Area | 17 in. (432 mm) measured diagonally      | 19 in. (483 mm) measured diagonally      | 20.1 in. (511 mm) measured diagonally    |
| Pixel Pitch: (H x V)  | 0.264 x 0.264 mm (0.01 x 0.01 in.)       | 0.294 x 0.294 mm (0.01 x 0.01 in.)       | 0.255 x 0.255 mm (0.01 x 0.01 in.)       |
| Resolution            | 1280 x 1024 pixels, 500 TV lines typical | 1280 x 1024 pixels, 500 TV lines typical | 1600 x 1200 pixels, 500 TV lines typical |
| Aspect Ratio          | 5:4                                      | 5:4                                      | 4:3                                      |
| Display Colors        | 16.7 million colors                      | 16.7 million colors                      | 16.7 million colors                      |

|               |  |   |   |
|---------------|--|---|---|
| Response Time | < 5 ms (typical)   | < 5 ms (typical)  | < 16 ms (typical)   |
| Backlight     | Two (2) cold cathode fluorescent tubes, rated life 50,000 hours, at 50% brightness | Four (4) cold cathode fluorescent tubes, rated life 50,000 hours, at 50% brightness | Six (6) cathode fluorescent tubes, rated life 45,000 hours, at 50% brightness |

**Mechanical**

|                  | UML-172-90  | UML-192-90 | UML-202-90  |
|------------------|---|------------|---|
| Cabinet Material | Front and Chassis: electrolytic galvanized iron                           |            | Front: ABS plastic<br>Chassis: electrolytic galvanized iron |
| Finish           | Charcoal black  |            |   |
| Mount            | Wall mounting compatible with standard bracket, 100 mm centers, M4 thread |            |   |

**Dimensions (W x H x D)**

| Monitor | UML-172-90   | UML-192-90   | UML-202-90  |
|---------|--|--|---|
|         | 389.7 x 348.9 x 74.5 mm<br>(15.3 x 13.7 x 2.9 in.) | 428.5 x 379.0 x 79.5 mm<br>(16.9 x 14.9 x 3.3 in.) | 460.4 x 395.1 x 81.0 mm<br>(18.1 x 15.5 x 3.19 in.) |

**Weight**

| Monitor | UML-172-90        | UML-192-90        | UML-202-90        |
|---------|-------------------|-------------------|-------------------|
|         | 5.86 kg (12.9 lb) | 6.36 kg (14.0 lb) | 7.50 kg (16.5 lb) |

**Environmental**

|                       | All Models                    |
|-----------------------|-------------------------------|
| Operating Temperature | 0°C to 40°C (32°F to 104°F)   |
| Storage Temperature   | -20°C to 60°C (-4°F to 140°F) |
| Humidity              | 10%-90%, non-condensing       |

For more information about monitors, refer to the CCTV Data Book.

**Ordering information**

**UML-172-90 17-inch Color LCD Display Monitor**

17-inch (432 mm) color LCD monitor, 1280 X 1024 resolution, VGA, DVI, HDMI, CVBS, audio, 120/230 VAC, 50/60 HZ  
Order number **UML-172-90**

**UML-192-90 19-inch Color LCD Display Monitor**

19-inch (483 mm) color LCD monitor, 1280 X 1024 resolution, VGA, DVI, HDMI, CVBS, audio, 120/230 VAC, 50/60 HZ  
Order number **UML-192-90**

**UML-202-90 20-inch Color LCD Display Monitor**

20-inch (501 mm) color LCD monitor, 1600 X 1200 resolution, VGA, DVI, HDMI, CVBS, audio, 120/230 VAC, 50/60 HZ  
Order number **UML-202-90**

**UMM-LW-30B Swivel/Tilt Wall Mount**

Swivel/Tilt wall mount that supports a flat panel LCD monitor up to 12 kg (26.5 lb) in weight, black  
Order number **UMM-LW-30B**

**UMM-LW-20B Fixed Wall Mount**

Fixed wall mount that supports a flat panel LCD monitor up to 12 kg (26.5 lb) in weight, black  
Order number **UMM-LW-20B**

**UMM-LCDUB-RM Rack Mount Bracket for LCD Monitors**

Supports dual 8.4-in. and single 8.4- to 19-in. LCD monitors in a standard VESA rack cabinet  
Order number **UMM-LCDUB-RM**

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