The MON172CL20 is a high resolution, high performance liquid crystal display (LCD) video display monitor. Available in an ergonomic, aesthetically pleasing design, this state-of-the-art monitor includes a 43 cm (17 in.) color thin film transistor (TFT) active matrix LCD panel with 1280 by 1024 pixels. Designed for the CCTV security marketplace, the MON172CL20 monitor includes two looping composite video inputs, two looping audio inputs, and one looping Y/C input.

Functions

Additionally, this model includes an analog VGA / digital DVI input to accommodate the increasing use of PC’s and digital video devices in security applications. To enhance the multi-input capability, a “picture-in-picture” function has been added, allowing any of the composite video or Y/C inputs to be inserted into each other, or into the VGA/DVI input display when operating in the analog VGA/DVI mode.

Adjustment of standard monitor display parameters is made user-friendly via on-screen menus (available in several languages), and front panel controls. For additional security, the MON172CL20 includes a front panel lockout feature that disables the front panel control buttons. Using long-life fluorescent backlights, the brightness level is maintained over time, because the LCD monitor design avoids the brightness degradation experienced with aging CRT-type monitors. It also provides a sharp display, free of the annoying flicker prevalent in CRT monitors, allowing longer use of your LCD monitor with little or no eyestrain. The versatile design allows it to automatically accept NTSC and PAL signal formats, and power supply voltages from 90 to 264 VAC.

Its compact styling, including an LCD panel depth of 84 mm (3 in.), makes the MON172CL20 the color monitor of choice for large screen, space limited applications. With its wide range viewing angle, 140° in horizontal and 130° in the vertical direction, the unit can be properly viewed whether installed on a desktop, wall mounted, or rack mounted in a standard 48 cm (19 in.) EIA rack.
Certifications and Approvals

**Electromagnetic Compatibility (EMC)**
Complies with FCC Part 15, ICES-003, and CE regulations

**Product Safety**
Complies with CE regulations, UL, CSA, EN, and IEC standards

Technical Specifications

**Electrical**

- **Rated Voltage**: 120/230 VAC, 50/60 Hz
- **Voltage Range**: 90 to 264
- **Power at Rated Voltage**: 51 W (max.)
- **Sync Format**: PAL/NTSC
- **LCD Panel**: TFT LCD
- **Screen Size (H x V)**: 337.9 x 270.3 mm (13.3 x 10.6 in.)
- **Viewable Picture Area**: 17 in. (43 cm) measured diagonally
- **Pixel Pitch (H x V)**: 0.264 x 0.264 mm (0.01 x 0.01 in.)
- **Resolution**: 1280 x 1024 pixels; 500 TV lines typical
- **Aspect Ratio**: 5:4
- **Display Colors**: 6-bit interface; 16.2 million colors
- **Response Time**: 8 ms
- **Backlight**: Four (4) cold cathode fluorescent tubes, rated life 50,000 hours, at 50% brightness

**Optical Characteristics**

- **Luminance**: 400 cd/m², hard coating (2H)
- **Contrast Ratio (CR)**: 500:1
- **Viewing Angle**: 140° horizontal, 130° vertical @ CR ≥ 10

**Video Input**

- **Composite Video (CVBS)**: 1.0 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
- **Picture-in-Picture**: Video 1, Video 2, S-video

**VGA / DVI Input**

- **Analog RGB**: 0.7 Vp-p (0.5–1 Vrms)
- **Picture-in-Picture**: Video 1, Video 2, S-video (VGA only)
- **VGA / DVI Timing Modes**: 640 x 480, 60/72/75 Hz 800 x 600, 60/72/75 Hz 1024 x 768, 60/70/75 Hz 1280 x 1024, 60/75 Hz

**Audio Input**: 1.0 V line level

**Audio Output**: Loop-through line level Speaker: two (2), 1 W

Controls

**Front Panel**

- **Push-buttons**

**Input**

- **Selects Video 1, Video 2, S-video, DVI, or VGA input**

**Menu**

- **Selects on-screen display (OSD)**
- **Up cursor, brightness select**
- **Down cursor, contrast select**
- **Adjustment decrease**
- **Adjustment increase**

**Power**

- **On/Off**

**Front Panel Lockout**

- **Multiple push-button combination**

On-screen Display

**Video**

- **Tint (NTSC only), Color, Sharpness, Default, Language, Channel Title, Underscan, 3-D Comb Filter, PIP Menu, Power-on Options, Volume, Input Enable/Disable, Exit**

**VGA / DVI**

- **Auto Set, Display Setting, Color Temperature, Language, Volume, Default, PIP Menu, Power-on Options, Input Enable/Disable, Information, Exit**

**Indicators**

**LED**

- **Power On (green), Standby (amber), Sleep Mode (flashing amber)**

**On-Screen**

- **"No Signal" (flashing)**

Connectors

**Video 1**

- **Composite video: two (2) BNC (1 in, 1 out)**

**Video 2**

- **Composite video: two (2) BNC (1 in, 1 out)**

**Y/C (S-video)**

- **Two (2) mini-DIN, 4-pin (1 in, 1 out)**

**Audio**

- **PC: one (1) 1/8 in. mini phono plug**
- **Aux: two (2) (left/right) RCA and looping output**

**DVI-I**

- **One (1) VGA to DVI cable included**
- **One (1) DVI to DVI cable included**

**Power Cord**

- **Two (2), 3-wire with a grounded plug, 1.8 m (6 ft) long. One (1) with a European/Continental plug type and one (1) with a U.S. plug type**

Mechanical

**Cabinet**

- **Material: ABS94V0 plastic**
- **Finish: Charcoal**
- **Wall mounting compatible with standard bracket, 100 mm centers, M4 thread**
### Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor with Base (W x H x D)</td>
<td>440 x 428 x 196 mm (17.3 x 16.9 x 7.7 in.)</td>
<td></td>
</tr>
<tr>
<td>Monitor Only (W x H x D)</td>
<td>440 x 375 x 84 mm (17.3 x 14.8 x 3.3 in.)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Monitor with base: 7 kg (15.42 lb)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Monitor only: 5.4 kg (11.9 lb)</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>0°C to 40°C (32°F to 104°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C to 60°C (~4°F to 140°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>10% to 95%, non-condensing</td>
</tr>
</tbody>
</table>

### Accessories

- **MON171RK Rack Mount Kit**: For mounting one MON172CL20 monitor in an EIA standard 48 cm (19 in.) rack 1 unit wide by 9 rack units high

### Ordering Information

**MON172CL20 17-inch Color LCD Flat Panel Display Monitor**

43 cm (17 in.), PAL/NTSC, 500 TVL high resolution with audio, PIP, CVBS, VGA, 120/230 VAC, 50/60 Hz

Order number **MON172CL20**

Order number **UMP-12V5B0-90**

**Accessories**

- **UMM-LW-20B Fixed Wall Mount**: Fixed wall mount for flat panel LCD monitors, black
  Order number **UMM-LW-20B**

- **UMM-LW-30B Swivel/Tilt Wall Mount**: Swivel/Tilt wall mount for flat panel LCD monitors, black
  Order number **UMM-LW-30B**

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