



Military Grade LCD Bridge Monitor
Sunlight Viewable LED Backlighting
High Resolution Wide Format Display

MPC-ML24W

24"W Marine Grade LCD Monitor

High Resolution Wide Display

Sunlight Readable LED Backlight

The MPC-ML24W is a military marine grade flat panel Active Matrix LCD Monitor designed for extremely rugged use where the front must be fully sealed from water, oil, dirt and other contaminants. The MPC-ML24W has a 24" diagonal display, designed for use anywhere onboard in a console or bulkhead, or free-standing. The LED display brightness manually adjusts to changing ambient light from 300 nits to super-dim for optimal operator viewing clarity and comfort in any lighting condition. The MPC-ML24W connects through the VGA, DVI-D, HDMI and DP video inputs from a high performance computer, radar, or other video sources. Picture-in-Picture capability is accessed through the On-Screen-Display menu. The native resolution is 1920x1200 for a full 16:10 image, but the MPC-M24W can auto-scale any lesser resolution to fit full screen. An optional analog resistive or multi-touch PCAP touch screen is available. The all aluminum case virtually eliminates any chance of corrosion for a very long service life, with the front bezel made from machined aluminum. The standard anti-reflective protective glass provides easy viewing in all lighting conditions. The attractive slim bezel and compact case allow mounting in very tight spaces. When properly mounted and sealed in place, the front is rated IP65. Common applications include primary display or repeater from a computer, chart plotter, blackbox radar or sounder or weather computer. Input power is either 24 VDC or 115/230 VAC. The MPC-ML24W has been designed to meet to the basic specifications and methods of MIL-STD-810G. Specific MIL standards or levels beyond this may be available on a project basis. Consult factory for details.



Standard Features

- All-Aluminum Front Bezel Rated IP65.
- Space Saving: 418mm. x 624mm. x 100mm.
- 24" Color TFT AMLCD, 16.7 Million Colors.
- WUXGA(1920x1200) Native Resolution.
- 300 nit Brightness, 1000:1 Contrast Ratio.
- Manual Dimming on Front of Bezel.
- Optional Touch Screen, A-R or Multi-Touch PCAP.
- VGA, DVI-D, HDMI and DP Video Inputs.
- P-in-P For Multiple Input Display.
- Low power (80w. max) and wide operating temp.
- Flush Bezel for Console Mounting, or free-standing.
- Powered from 18-32 VDC (External AC/DC optional)
- Flush Mount, Rack Mount or VESA Mount.

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Specifications

<ul style="list-style-type: none"> ▣ Display ▣ Brightness ▣ Video Input ▣ Touchscreen (Optional) ▣ Connectors ▣ Housing ▣ Dimensions (HxWxD) ▣ Mounting ▣ Weight ▣ Power (MIL-STD-1275)B ▣ EMI/RFI ▣ Environmental ▣ MTBF ▣ Other Standards 	<p>24" Diagonal Active Matrix TFT LCD: WUXGA 1920x1200 pixels, 1000:1 Contrast Ratio, 16.7 Million Colors Active Viewing Area: 518.4mm. x 324mm. Viewing Angle: 89/89/89/89 Response Time: (@ 25°C ambient) Tr+Tf(Black->White->Black): 13 ms, Tr+Tf(Gray->Gray): 5ms</p> <p>300 nits sunlight readable brightness, Manual Dimming to 1 nit, LED Backlight</p> <p>RGB Video from Any Standard Computer, DVI-D Input, 5 - Composite Video Inputs (NTSC or PAL)</p> <p>Analog Resistive or Multi-Touch PCAP, USB Connection to PC.</p> <p>Power: MIL-C-38999 Bayonet 1/4 Turn, MS27466T15F05P Video: Standard VGA, HDMI, DP Connectors, Composite Video: Standard BNC-F</p> <p>All Aluminum, Milled Front, Formed Metal Back, Black Matte Finish</p> <p>418mm. x 624mm. x 100mm. (16.46" x 24.57" x 3.94")</p> <p>Flush Mount Bezel for Mounting in Panel or Frame. VESA Desktop Mounting Base or Adjustable Arm Mounting Optional. Removable Front Handles for Rack or Flush Mounting.</p> <p>13.5 kg / 30 lbs.</p> <p>80 Watts Max. (70 watts Nominal) 18-32 VDC (115/230 VAC External AC/DC Power Supply Optional)</p> <p>MIL-STD-461G CE-101,102 CS-101,114,115,116 RE- 101,102 RS-101,103</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Operating</td> <td style="width: 33%;">Non-Operating</td> <td></td> </tr> <tr> <td>Temperature (Air Ambient)</td> <td>-10°C to 50°C (14°F to 122°F)</td> <td>-20°C to 70°C (-4°F to 158°F)</td> </tr> <tr> <td>Relative Humidity</td> <td colspan="2">5% to 95%, non-condensing</td> </tr> <tr> <td>Shock</td> <td colspan="2">30 G (half-sine for 30msec.)</td> </tr> <tr> <td>Vibration</td> <td colspan="2">1.0 G RMS (@ 20 - 500 Hz)</td> </tr> <tr> <td>IP Rating</td> <td colspan="2">IP65 Splashproof Front, IP22 Rear</td> </tr> <tr> <td>Salt Fog</td> <td colspan="2">MIL-STD-810G Method 509.5</td> </tr> <tr> <td>Fungus</td> <td colspan="2">MIL-STD-810G Method 508.6</td> </tr> </table> <p>>20,000 Hrs.</p> <p>FCC, CE, RoHS</p>	Operating	Non-Operating		Temperature (Air Ambient)	-10°C to 50°C (14°F to 122°F)	-20°C to 70°C (-4°F to 158°F)	Relative Humidity	5% to 95%, non-condensing		Shock	30 G (half-sine for 30msec.)		Vibration	1.0 G RMS (@ 20 - 500 Hz)		IP Rating	IP65 Splashproof Front, IP22 Rear		Salt Fog	MIL-STD-810G Method 509.5		Fungus	MIL-STD-810G Method 508.6		<p>MIL-STD-810G Method 501.5, 502.5 MIL-STD-810G Method 507.5 MIL-STD-810G Method 516.6 MIL-STD-810G Method 514.6 MIL-STD-810G Method 506.5</p> <p>MIL-HDBK-217F</p>
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