



Marine Grade LCD Bridge Monitor  
Sunlight Viewable LED Backlighting  
High Definition Wide Format Display

# MPC-HL21W

**21.5" Marine Grade LCD Monitor**

**High Definition Wide Display**

**Sunlight Readable LED Backlight**

The MPC-HL21W is a 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-HL21W has a 21.5" diagonal display, designed for use anywhere onboard in a console or bulkhead, or free-standing. The front located manual dimming control adjusts the LED display brightness from max to super-dim for optimal operator viewing clarity and comfort in any lighting condition. The standard brightness of 400 nits is satisfactory for enclosed bridges, or the optional 1,000 nit backlight is suitable for all lighting conditions. The MPC-HL21W connects through the VGA, DVI-D, HDMI or composite video input from a high performance computer, radar, or other video sources. A composite video input are also available from a camera or other NTSC/PAL signal. The native resolution is 1920x1080 for a Full HD 16:9 image, but the MPC-HL21W can auto-scale any lesser resolution to fit full screen. An optional touch screen will operate perfectly even in the wettest conditions. The all aluminum case a virtually eliminates any chance of corrosion for a very long service life. 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 24 VDC, but can accept 115/230 VAC with the addition of an optional external power adapter.



## Standard Features

- All-Aluminum Front Bezel Rated IP65.
- Space Saving: 19.4"x15.4"x2.36" (494x393x60mm.)
- 21.5" Color TFT AMLCD, 16.7 Million Colors.
- Full HD(1920x1080) Native Resolution.
- 400 nit Brightness, 900:1 Contrast Ratio.
- Manual Linear Dimming knob from Max to ~1 nit.
- Standard RGB Video from any Computer.
- DVI-D and HDMI from Radar or other Computer.
- Composite Video Input, NTSC or PAL.
- Low power (40w. max) and wide operating temp.
- Flush Bezel for Console Mounting, or free-standing.
- Powered from 24 VDC or optional 120/240 VAC.
- A/R Glass or Optional Waterproof Touchscreen.

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## Specifications

□ <b>Display</b>	21.5" Diagonal Active Matrix TFT LCD: Full HD 1920x1080 pixels, 900:1 Contrast Ratio, 16.7 Million Colors Active Viewing Area: 432mm. x 331.5mm., Response Time: 20msec	
□ <b>Brightness</b>	400 nits sunlight readable brightness. Optional 1,000 nits. Dimmable 1000:1 for Night time Operation, LED Backlight	
□ <b>Video Input</b>	RGB Video from Any Standard Computer, DVI-D Input, HDMI Input, 1 - Composite Video Input (NTSC or PAL)	
□ <b>Touchscreen (Optional)</b>	Analog Resistive, USB Connection to PC.	
□ <b>Cable</b>	Power - None, Terminal Strip Provided 1 -Video - 6 Ft. (2m.)Shielded Cable, Standard Mini-DIN DB-15 M-M	
□ <b>Housing</b>	All Aluminum, Dark Gray Matte Finish, IP65 Splashproof Front, IP22 Rear	
□ <b>Dimensions</b>	494mm. x 393mm. x 60mm. (19.4" x 15.4" x 2.36")	
□ <b>Mounting</b>	Surface Mount Bezel for Mounting on Panel or VESA. Desktop U-Frame or Adjustable Arm Mounting Optional.	
□ <b>Weight</b>	11.3 kg / 25 lbs.	
□ <b>Power (Max)</b>	50 Watts 24 VDC Option: 115/230 VAC External Power Adapter	
□ <b>Environmental</b>	<b>Operating</b>	<b>Non-Operating</b>
Temperature (Air Ambient)	-10°C to 60°C (14°F to 140°F)	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	5% to 95%, non-condensing	
Shock	50 G (half-sine for 30msec.)	
Vibration	1.0 G (@ 5 - 500 Hz sine sweep, 3 - axis)	
□ <b>MTBF</b>	30,000 Hrs.	
□ <b>Standards</b>	CE, FCC Class A, Part 15, Designed to Meet IEC60945	

