



Marine Grade LCD Bridge Monitor  
Sunlight Viewable LED Backlighting

# MPC-HL12

## 12.1" Marine Grade LCD Monitor

## Sunlight Readable LED Backlight

The MPC-HL12 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-HL12 has a 12.1" 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 the ~1,000 nit LED backlight is suitable for all lighting conditions, but dims to <10 nits for night operations. The MPC-HL12 connects through the VGA, or DVI-D 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 1024x768 for a 4:3 image, but the MPC-HL12 can auto-scale any lesser resolution to fit full screen. The standard anti-reflective protective glass provides easy viewing in all lighting conditions. An optional resistive 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 attractive, compact case allow mounting in very tight spaces. When properly mounted and sealed in place, the flush front is rated IP65, but can also mount on any VESA device or optional "U" bracket. Common applications include primary display or repeater from a computer, chart plotter, blackbox radar or sounder or weather computer. Input power is 10-38 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: 264mm. x 311mm. x 60mm.
- 12.1" Color TFT AMLCD, 1.8 Million Colors.
- XGA(1024x768) Native Resolution.
- ~1,000 nit Brightness, 1000:1 Contrast Ratio.
- Manual Linear Dimming knob from Max to ~10 nit.
- Standard RGB Video from any Computer.
- DVI-D from Radar or other Computer.
- Composite Video Input, NTSC or PAL.
- Low power (20w. max) and wide operating temp.
- Flush Bezel for Console Mounting, or free-standing.
- Powered from 10-38 VDC or optional 120/240 VAC.
- A/R Glass or Optional Waterproof Touchscreen.

[WWW.MARINEPC.COM](http://WWW.MARINEPC.COM)



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## Specifications

Display	12.1" Diagonal Active Matrix TFT LCD: XGA 1024x768 pixels, 1000:1 Contrast Ratio, 1.8 Million Colors Active Viewing Area: 246mm. x 184.5mm., Response Time: 12msec		
Brightness	~1,000 nits. Dimmable 1000:1 for Night time Operation, LED Backlight, Dimmable to ~10 nit		
Video Input	RGB Video from Any Standard Computer, DVI-D Input, HDMI Input, 1 - Composite Video Input (NTSC or PAL)		
Touchscreen (Optional)	Analog Resistive, USB Connection to PC. (Optional PCAP Multi-Touch, not Waterproof)		
Cable	Power - None, Terminal Strip Provided 1 -Video - 6 Ft. (2m.)Shielded Cable, Standard Mini-DIN DB-15 M-M		
Housing	All Aluminum, Dark Gray Matte Finish, IP65 Splashproof Front, IP22 Rear		
Dimensions	264mm. x 311mm. x 60mm. (10.4" x 12.25" x 2.36")		
Mounting	Flush Mount Bezel for Mounting in Panel or Frame. Desktop U-Frame or Adjustable Arm Mounting Optional.		
Weight	2.9 kg / 7.1 lbs.		
Power (Max)	20 Watts 10-38 VDC Option: 115/230 VAC External Power Adapter		
Environmental	<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)		
MTBF	30,000 Hrs.		
Standards	CE, FCC Class A, Part 15, Designed to Meet IEC60945		

