MARINE PC

Glass Bridge Displays
Sunlight Viewable LED Backlighting

MPC-GB Series

Seamless Glass Front Bezel

Sunight Readable LED Backlight

The MPC-GB Series is a marine grade flat panel Active Matrix LCD Monitor designed for functionality as well as attractiveness in areas where the front must be fully sealed from water, oil, dirt and other contaminants. The MPC-GB Series is available in 12.1", 15", 17", 19" and 20.1" sizes and are designed for use anywhere onboard, in a console or bulkhead, or free-standing with a "U" bracket or VESA mount. The front located manual dimming control knob 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 ~1 nit for night operations. The MPC-GB Series connects through the VGA, DVI-D or HDMI 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 maximum native resolution per size is offered but the MPC-GB Series can auto-scale any lesser resolution to fit full screen. An optional P-CAP touch screen will operate with the latest software for multi-touch functionality. 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, compact case allows mounting in very tight spaces. When properly mounted and sealed in place, the flush front is rated IP65, but can aso mount with optional "U" bracket or on any VESA arm. 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

- **Aluminum Case, Front Bezel Rated IP65.**
- **Space Saving Case Design, Sleek Glass Front Bezel.**
- **LED Backlight Color TFT AMLCD, High Contrast.**
- **XGA, SXGA and UXGA Native Resolutions.**
- **~1,000 nit Brightness, 1000:1 Contrast Ratio.**
- **Manual Linear Dimming knob from Max to ~1 nit.**
- **Standard RGB Video (VGA) from any Computer.**
- **DVI-D and HDMI from Radar or other Computer.**
- **Composite Video Input, NTSC or PAL.**
- **Low power 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 P-CAP Touchscreen.**

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Specifications

- **Display** — Active Matrix TFT LCD: 12.1", 15" XGA (1024x768), 17", 19" SXGA (1280x1024), 20.1" UXGA (1600x1200)
  1000:1 Contrast Ratio, Up to 16.8 Million Colors
- **Brightness** — ~1,000 nits. Dimmable1000:1 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)** — P-CAP Multi-Touch, USB Connection to PC.
- **Cable** — Power - Sealed Thread-On, 6 ft. (2m.) Flying Leads
  1 -Video - 6 Ft. (2m.)Shielded Cable, Standard Mini-DIN DB-15 M-M
- **Housing** — All Aluminum, Anti-Glare Glass Front, IP65 Splashproof, Aluminum IP44 Rear
- **Dimensions**

Model	Width	Height	Depth
MPC-GB12	12.48"/317mm.	11.02"/280mm.	2.36"/60mm.
MPC-GB15	14.72"/374mm.	13.15"/334mm.	2.36"/60mm.
MPC-GB17	16.14"/410mm.	15.57"/370mm.	2.20"/56mm.
MPC-GB19	17.48"/444mm.	16.50"/419mm.	2.36"/60mm.
MPC-GB20	19.45"/494mm.	16.18"/411mm.	2.36"/60mm.

- **Mounting** — Flush Mount Bezel for Mounting in Panel or Frame. Desktop U-Frame or Adjustable Arm Mounting Optional.
- **Power (Max)** — 60 Watts 12 VDC Option: 115/230 VAC External Power Adapter
- **Environmental**

	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	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