



Marine Grade LED Bridge Monitor
Sunlight Viewable
IMO Type Approved for ECDIS

MPC-MI19

19" Marine Grade LCD Monitor

Suitable for Radar, Chart, Weather

Auxillary Inputs with P-in-P

The MPC-MI19 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-MI19 has a 19" diagonal display, designed specifically for use on the bridge, and has the same display area as obsolete 20" CRT radars. The front mounted manual dimming control adjusts the display brightness from max to super-dim for optimal operator viewing clarity and comfort in any lighting condition. The MPC-MI19 connects to any standard PC through the VGA output using any standard VGA cable. The monitor can also receive DVI-D video input from a high performance computer or other video sources. Composite video inputs are also available for camera or other NTSC/PAL signals. The native resolution is 1280x1024, but the MPC-MI19 will auto-scale any standard 4:3 resolution to fit full screen. Picture-in-Picture capability is standard. An optional touch screen will operate perfectly even in the wettest conditions. The matte black aluminum case virtually eliminates any chance of corrosion for a very long service life. The standard anti-reflective protective glass is bonded to eliminate internal and external reflections, making it ideal to use in bridge areas. Mounting is accomplished from the front directly on a console or in a frame or yoke mount. The front is rated IP65 and the rear is IP22. Common applications include primary display or repeater from a computer, chart plotter, blackbox radar or sounder or weather computer. Multiple functionality can be achieved by adding inputs from engine room, docking or common space cameras, as well as thermal and night vision cameras. The MPC-MI19 is IMO Type Approved by ABS for ECDIS and IACS-E10, recognized by all major international IMO standards authorities.



Standard Features

- All-Aluminum Case Rated IP65 Front, IP22 Rear.
- 19" Color TFT AMLCD, AR Coated Protective Glass.
- SXGA(1280x1024) Native Resolution.
- 500 nit LED Brightness, 500:1 Contrast Ratio.
- Optional 1,000 nit Sunlight Readable, Dim to ~1nit.
- Standard RGB Video from any Computer.
- DVI-D from Black Box Radar or other Computer.
- Composite Video Inputs with BNC Connectors.
- P-in-P Standard, RS-232 Remote control option.
- Flush Bezel for Console, Frame or Yoke Mounting.
- Powered from 9 - 30 VDC or optional 120/240 VAC.
- Optional Waterproof Touchscreen.
- Power, DVI and VGA Cables Included.

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Specifications

- **Display** 19" Diagonal Active Matrix TFT LCD: Native SXGA (1280x1024 pixels), 500:1 Contrast Ratio, 16.7 Million Colors
- **Brightness** LED Backlight, 500 nits standard brightness, Dimmable to 1 nit for Night time Operation. Optional 1,000 nits.
- **Video Input** RGB 4:3 Video from Any Standard Computer, supports VGA, SVGA, XGA, SXGA, UXGA, Auto-Scaling to Full Screen
DVI-D Input, Composite Video Inputs
- **Touchscreen (Optional)** Analog Resistive, 2048x2048 Resolution, RS-232 or USB Connection to PC.
- **Cable** Power - 6 Ft. (1.8m.) Universal Cable, (AC only)
Video - 6 Ft. (1.8m.) Shielded Cable, Standard Mini-DIN DB-15 M-M
DVI-D - 6 ft. (1.8m.) Shielded Cable, Hi-Density DVI Connectors
- **Housing** All Aluminum, Black Finish, IP65 Splashproof Front, IP22 Rear
- **Mounting** Flush Mount Bezel for Mounting in Panel or Frame. Optional adjustable yoke surface mounting bracket.
- **Weight** 15 kg / 33 lbs.
- **Power (Max)** 60 Watts
- **Environmental**

	Operating	Non-Operating
Temperature (Air Ambient)	-10°C to 55°C (14°F to 131°F)	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	5% to 95%, non-condensing	
Shock	15 G (half-sine for 11msec.)	
Vibration	1.0 G (@ 5 - 500 Hz sine sweep, 3 - axis)	
- **Electrical**

Input	9 - 30 VDC	120/240 VAC
Frequency	DC Input	45 - 75 Hz
- **MTBF** 20,000 Hrs.
- **Standards (pending)** IEC60945, IEC61174 IMO MSC.86(70), CE, FCC Class B, Part 15, ABS Type Approved IACE-E10

