



Military Grade Extreme Duty Waterproof Ultrabright Video Monitor

MPC-ML2V

The MPC-ML2V Series is a 2nd generation Military Grade marine flat panel Active Matrix LCD Monitor designed for rugged use where environmental conditions and operational reliability are beyond normal limits. The MPC-ML2V is designed to meet applicable military standards MIL-STD-810G, MIL-STD-461F and others. The MPC-MLV is available in 6.5", 8.4", 10.4", 12.1" and 15.0" sizes and has an extremely bright up to 1,000 nit display for use full sunlight but dimmable below 1 nit for use on blackout nights without destroying the user's night vision. The MPC-ML2V is also available to authorized users with the optional NVIS Red/Green for compatibility with NVG's. This results in the maximum in readability in any situation. Front mounted display setup and dimming control adjusts the display qualities and brightness with pushbutton simplicity. The MPC-ML2V connects to any RS-170 video source such as NTSC or PAL composite video. A single fully sealed MIL-C circular connector on the rear allows for connection to a custom cable or to our standard 3m. power/video cable (ordered separately). The connector and cable contain both the power and the video connection. The MPC-ML2V has a front mounted source button to allow sequential display of all sources connected. Any other input can be selected for display with the built-in Picture-in-Picture feature. The normal operating temperature range of -40 to 70°C (-40 to 158°F) is accomplished without adding heaters or fans. The precision milled aluminum case is the smallest possible allowing mounting where others can't fit. Our sealed construction eliminates fogging and will normally give years of service with the roughest handling. Mounting is accomplished via a shock resistant adjustable ball mount, surface mount with rear studs, or ordered with the optional flush bezel. Common applications include primary display for thermal imaging cameras, light amplified or image enhanced cameras, underwater cameras, DVR's, boarding/event capture cameras, and can be remotely located 24/7/365 in an open unprotected station.



Standard Features

- Completely Sealed Case Rated IP67 Watertight.
- Designed to Meet MIL-STD-810G, 461F, others.
- 6.5", 8.4", 10.4", 12.1" or 15" Color TFT AMLCD.
- SVGA(800x600) Native LCD Resolution (15" is 1024x768).
- Standard RS-170 Composite Video (NTSC or PAL).
- Up to 1,000 nit Ultra-Bright Dimmable to <1 nit.
- NVIS Red/Green Option with Day/NVIS Selectable.
- Extreme Temperature Range: -40to70°C (-40to158F).
- High Shock, Vibration and Lifecycle Withstand.
- RAM Shock Resistant Adjustable Ball Mount.
- Thin Profile Black Anodized Aluminum Case.
- Optional Flush Bezel for Console Mounting.
- Powered from 12-36 VDC.
- Anti-Reflective Glass.
- 10 Ft. (3m.) Power/Video Cable Available.



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Specifications

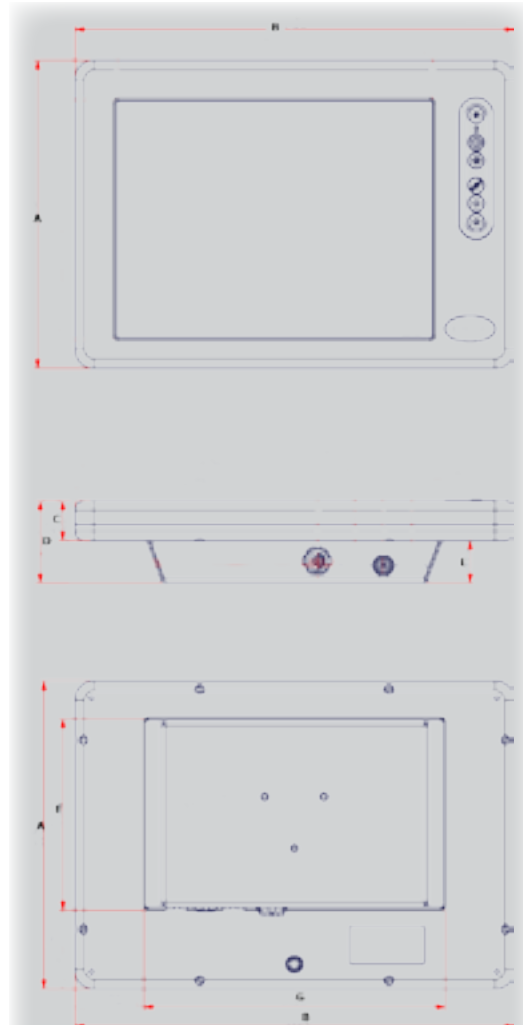
- **Display**

SIZE	Resolution	Brightness(nits)	Viewing Angle (H x V)	Contrast Ratio
6.5"	800x600	800	160° x 140°	600:1
8.4"	800x600	800	160° x 160°	900:1
10.4"	800x600	800	160° x 160°	900:1
10.4" *	1024x768	1,000	160° x 130°	700:1
12.1"	800x600	550	160° x 140°	600:1
12.1" *	1024x768	1,000	160° x 140°	600:1
15"	1024x768	800	160° x 140°	800:1

* Optional Upgrade
- **AMTFT LCD**
■ **LED Backlight**
■ **SVGA - 262,144 colors**
■ **XGA - 1,777,216 colors**
- **NVIS Option** MIL-STD-3009 Red/Green NVIS Day/NVIS Mode Selectable.
- **Video Inputs** 3 - RS-170 NTSC or PAL Composite Video Channels
- **Display BIOS** Source Button Select Primary, OSD Select Picture-in-Picture
- **Cable** (Order Separately) Power - 10 Ft. (3m.) Sealed Cable, Flying Leads (DC only), BNC-F
- **Connector** MIL-DTL-38999 (Power and Video Combined)
- **Housing** MIL-PRF-22750F
 NEMA 6P/IP67 Rated Outdoor Weatherproof and Watertight
 Main Case Black Anodized/Clear Coated Milled Aluminum Billet
 Powder Coated Aluminum Pod, All Stainless Steel Hardware
 RAM Adjustable Shock Resistant Ball or Surface Mount Stud Kit
 Optional Flush Mount Bezel (Adds 0.45" Front Flange All Sides)
- **Mounting**
- **Weight**

6.5"	1.7 kg / 3.8 lbs.
8.4"	3.0 kg / 6.6 lbs.
10.4"	3.5 kg / 7.7 lbs.
12.1"	4.1 kg / 9.0 lbs.
15.0"	5.0 kg / 11 lbs.
- **Power Supply** MIL-STD-1275D Wide Range DC Input (12-36 VDC)
 Nominal Operating Voltages 12, 24, 28, 32 VDC
- **Power Consumption** Min: 6 watts Max: 6.5",8.4",10.4",12.1" - 17 Watts, 15" - 35 Watts
- **Environmental** MIL-STD-810G

	Operating	Non-Operating
Temp. Method 501.4 & 502.4	-40°C to 70°C (-40°F to 158°F)	-40°C to 75°C (-40°F to 167°F)
Relative Humidity	0% to 100%	Method 507.4
Shock	50 G	50 G Method 516.5
Vibration @ 5-500 Hz sine sweep)	5.8 G	5.8 G Method 528
- **EMI/RFI** MIL-STD-461F (Select Ranges)
- **MTBF** 50,000 Hrs. (est.)



Dim Model	A	B	C	D	E	F	G
ML206V	6.66" 169mm	7.13" 181mm	1.96" 50mm	2.77" 70mm			
ML208V	6.90" 175mm	9.90" 251mm	1.10" 28mm	2.50" 64mm	1.40" 36mm	5.11" 130mm	8.04" 204mm
ML210V	8.13" 207mm	11.60" 295mm	1.10" 28mm	2.50" 64mm	1.40" 36mm	5.11" 130mm	8.04" 204mm
ML212V	9.20" 234mm	13.00" 330mm	1.20" 30mm	2.60" 66mm	1.40" 36mm	5.11" 130mm	8.04" 204mm
ML215V	11.0" 279mm	14.86" 377mm	1.20" 30mm	2.60" 66mm	1.40" 36mm	5.11" 130mm	8.04" 204mm

(Note: MPC-ML products are designed to meet a broad range of MIL-STD's. Consult factory for current Certified Test results.)