



Professional Grade Waterproof Ultrabright LED Video Monitor

MPC-AWM3V

The AWM3V Series is a marine grade flat panel Active Matrix LCD Monitor designed for extremely rugged use where the case must be fully sealed from water, oil, dirt and other contaminants. The AWM3V is available in 8.4", 10.4", 12.1" and 15.0" sizes and has ultrabright (up to 1,000 nit) LED backlight technology that is fully sunlight readable yet dimmable to ~ 1 nit. The front mounted video display and dimming control adjusts the display qualities and brightness from max to super-dim for optimal operator viewing clarity and comfort in any lighting condition. The AWM3V connects any three NTSC or PAL video sources. The AWM3V 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 is -40 to 70°C (-40 to 158°F) without heaters. The precision milled aluminum case is the smallest possible allowing mounting where others can't fit. Our sealed construction eliminates fogging yet it looks great and will 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 camera types used with the AWM3V include lowlight/infrared/daylight cameras for uses such as collision avoidance and surveillance, and can be remotely located on deck, in an open flybridge, nav station or at the helm.



Standard Features

- **Completely Sealed Case Rated IP67 Watertight.**
- **8.4", 10.4", 12.1" or 15" Color TFT AMLCD.**
- **SVGA(800x600) or XGA(1024x768) Native Resolution.**
- **Standard NTSC (US) or PAL (EU) Video Signal.**
- **Three Separate Composite Video Coax BNC Inputs.**
- **Picture-in-Picture Included as Standard.**
- **800 to 1,000nit Sunlight Viewable, Dims to ~ 1 nit.**
- **Wide Temperature Range: -40 to 70°C (-40 to 158°F).**
- **Thin Profile Black Anodized Aluminum Case.**
- **Mounting Studs or optional RAM Adjustable Mount.**
- **Optional Flush Bezel for Console Mounting.**
- **Powered from 9-30 VDC or optional 120/240 VAC.**
- **Anti-Reflective Protective Glass Standard.**
- **10 Ft. (3m.) Power Cable Included.**

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Specifications

- **Display** AM-TFT LCD: 8.4", 10.4", 12.1" - 800x600, 15.0" - 1024x768 Optional XGA 1024x768 (1,000nits) for 10.4" and 12.1" Only
- **Brightness** ~800 nits LED, Dimmable to ~ 1 nit (12.1" - 550 nits)
- **Video Input (3)** NTSC or PAL Signal, Coaxial Composite Video Format Picture-in-Picture, Select any Secondary Input via OSD
- **Video Output (1)** NTSC or PAL Signal, Coaxial Composite Video Format Repeats Selected Input
- **Cable** Power - 10 Ft. (3m.) Sealed Cable, Flying Leads (DC only), Custom Lengths Available
- **Video Connectors** Four Coax BNC-F Inputs
- **Power Connector** Quick Connect Bayonet Style Sealed Connector
- **Housing** NEMA 6P/IP67 Rated Outdoor Weatherproof and Watertight
Main Case Black Anodized/Clear Coated Milled Aluminum Billet
- **Mounting** RAM Adjustable Shock Resistant Ball Arm Mount or
Stainless Steel Stud Kit for Surface Mounting
Optional Flush Mount Bezel (Adds 0.45" Flange All Sides)
- **Weight**

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** Min: 6 watts Max: 8.4", 10.4", 12.1" - 17 Watts, 15" - 35 Watts
- **Environmental**

	Operating	Non-Operating
Temperature (Air Ambient)	-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%	
Shock	50 G	50 G
Vibration		
	(@ 5-500 Hz sine sweep) 5.8 G	5.8 G
- **Electrical**

Input	8-30 VDC Internal	120/240 VAC (External Adapter)
Frequency	DC Input	45 – 75 Hz
- **MTBF** 30,000 Hrs.
- **Standards** CE, FCC Class A, Part 15

LCD Size	Height	Width	Depth
8.4"	6.90" (175mm)	9.90" (251mm)	2.60" (66mm)
10.4"	8.13" (207mm)	11.60" (295mm)	2.60" (66mm)
12.1"	9.2" (234mm)	13.0" (330mm)	2.60" (66mm)
15"	11.0" (279mm)	14.86" (377mm)	2.60" (66mm)



Flush Bezel Option