

Military Grade Extreme Duty Waterproof Ultrabright Computer and Video Monitor

The MPC-ML2VR 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-ML2VR is designed to meet applicable military standards MIL-STD-810G, MIL-STD-461E and others. The MPC-ML2VR is available in 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 to under 1 nit for use on blackout nights without destroying the user's night vision. The MPC-ML2VR is also available to authorized users with MIL-STD-3009 NVIS Red/Green for use with NVG's. This results in the maximum in readability in any situation. Front mounted display setup and dimming control adjusts the display gualities and brightness with pushbutton simplicity. The MPC-ML2VR connects to any standard RGB video source such as the VGA output of a PC, and to up to three RS-170 NTSC/PAL composite video inputs. Fully sealed MIL-C circular connectors on the rear allow for connection to a custom cable or to our standard 3m. power and video cables (ordered separately), and selaed BNC connectors for the video inputs. The ML2VR 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 native resolution is XGA 1024x768 (800x600 for the 8.4"), but the MPC-ML2VR will auto-scale a 4:3 input resolution to fit full screen. The optional touch screen will operate prefectly even in the wettest conditions. The normal operating temperature range of -40 to 70°C (-40 to 158°F) is accomplished without heaters. 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 accompished via a shock resistant adjustable ball mount, surface mount with rear studs, or ordered with the optional flush bezel. Common applications include primary display or repeater from a computer, chart plotter, blackbox radar, sounder or weather computer, and video inputs from thermal imaging, light amplified, daylight and/or underwater cameras.



MPC-ML2VR



Standard Features

- Completely Sealed Case Rated IP67 Watertight.
- Designed to Meet MIL-STD-810G, 461E, others.
- 8.4", 10.4", 12.1" or 15" Color TFT AMLCD.
- SVGA(800x600) Hi-Resolution LCD (15" is 1024x768).
- Standard Analog RGB Video from any Computer.
- Standard BNC (3) Coax Composite Video Inputs.
- Up to 1,000 nit Ultra-Bright Dimmable to <1 nit.
- MIL-STD-3009 NVIS Red/Green for use with NVG's
- Extreme Temperature Range: -40to70°C (-40to158F).
- Extended Shock, Vibe 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 or optional 120/240 VAC.
- Anti-Reflective Glass or Optional Touchscreen.
- **10 Ft. (3m.) Power and RGB Cables Available.**

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Specifications

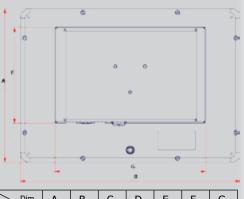
Display AMTFT LCD LED Backlight SVGA - 262,144 colors XGA - 1,777,216 colors

SIZE	Resolution	Brightness(nits)	Viewing Angle (H x V)	Contrast Ratio		
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		
* Ontional Ungrade						

ional Upgrade

	NVIS Option	MIL-STD-	3009 Red/	Green NVIS	with Da	ay/NVIS Selectable	
	Computer Input	Analog R	GB VGA V	ideo from Ar	y Stand	lard Computer	
	Input Resolution	640x480	up to 1280	x1024, 4:3 A	utoscal	ing	
	Video Inputs (3)	RS-170 C	composite '	Video, NTSC	/PAL F	ormat, 3 - Coax	
	Display BIOS	Source B	utton Seleo	ct Primary, C	SD Sel	ect, Picture-in-Picture	
	Touchscreen (Optional)	Analog R	esistive, 10)24x1024 Re	esolutio	n, USB or RS-232	
	Cables (Order Separately)	Power - 1	0 Ft. (3m.)	Sealed Cab	ole, Flyir	ng Leads (DC only)	• •
		Video - 10) Ft. (3m.)	Sealed Cable	e, Stanc	lard Mini-DIN DB-15 Male	D
	Connectors		. ,			2 (Power), BNC (Video)	•
	Housing	MIL-PRF-		F 77			
-				ed Outdoor V	Veather	proof and Watertight	
						d Milled Aluminum Billet	
						lless Steel Hardware	
	Mounting			,		Surface Mount Stud Kit	
-	wounting					' Front Flange All Sides)	1
	Weight	8.4"	3.0 kg / 6.		us 0.45	Tiont Tiange All Sides)	
	weight		Ũ				
		10.4"	3.5 kg / 7.				
		12.1"	4.1 kg / 9.				
_		15.0"	5.0 kg / 11				
	Power Supply	MIL-STD-	1275D Wi	de Range D	C Input	(12-36 VDC)	\square
				Voltages 12,			Mod
	Power Consumption	Min: 6 wa	tts Max: 8	3.4", 10.4", 1	2.1" - 1	7 Watts, 15" - 35 Watts	
	Environmental	MIL-STD-	810G				ML2
	Tomp Mathed E01 4 8 E02 4	40°C to -	Operating	5	10°C +	Non-Operating	ML
	Temp. Method 501.4 & 502.4 Relative Humidity	-40 C to 1	•	Method 507		075 C (-40 F to 107 F)	
	Shock	50 G) G	Method 516.5	ML
	Vibration (@ 5-500 Hz sine sweep)	5.8 G		5.	8 G	Method 514.5	
	EMI/RFI	MIL-STD-46	1E CE102, CS	114, CS115, CS	116, RE10	01, RE102, RS101, RS103	ML
	MTBF	50,000 H	ſS.				
	(Note: MPC-ML products are designed t	to meet a broa	d range of MI	L-STD's. Consu	It factory f	or current list of Certified Test results	s.)





Dim Model	А	В	С	D	E	F	G
ML208VR	6.90″	9.90″	1.10″	2.50″	1.40″	5.11″	8.04″
	175mm	251mm	28mm	^{64mm}	^{36mm}	130mm	204mm
ML210VR	8.13″	11.60″	1.10″	2.50″	1.40″	5.11″	8.04″
	207mm	^{295mm}	28mm	^{64mm}	^{36mm}	130mm	204mm
ML212VR	9.20″	13.00″	1.20″	2.60″	1.40″	5.11″	8.04″
	234mm	^{330mm}	^{30mm}	66mm	^{36mm}	130mm	204mm
ML215VR	11.0″	14.86″	1.20″	2.60″	1.40″	5.11″	8.04"
	279mm	^{377mm}	30mm	66mm	^{36mm}	130mm	204mm

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