



20.1" Military LCD

Designed and Tested
for MIL-S-901D,
MIL-STD-167 & MIL -STD-461D

20.1" Military 9U Rack Mount LCD (Model: ARP920)

20.1" Military Panel Mount LCD (Model: AAP2000)

Product Features

- ❑ 20.1" Color Active Matrix Liquid Crystal Display (AMLCD)
- ❑ Attractive Flush Rack Mount Design Fits Flush in a Standard 19" Rack (Projects only 0.75" from Mounting Rails) for ARP920
- ❑ Attractive Panel Mount for AAP2000
- ❑ Convenient Front Controls
- ❑ Designed and Tested for MIL-S-901D, MIL-STD-167, MIL-STD-461D
- ❑ High Brightness with Full Range Dimming (Standard)
- ❑ Anti-Reflective Protective Viewing Window (Standard)
- ❑ Wide Viewing Angle $\pm 85^\circ$ (All Directions)
- ❑ HD-15 (VGA) & 5-BNCs (for ARP920 only) Input Video Connectors
- ❑ Auto Ranging Internal AC Power Supply
- ❑ High Resolution 1280 x 1024
- ❑ Specifically designed for severe environments



ARP920 & AAP2000 flat panel displays are designed for use in severe environments as encountered by the military. The ARP920 & AAP2000 are designed to meet a wide variety of applications (shipboard, airborne, and ground mobile), which require a solid mechanical design to protect the display against shock, vibration, and temperature extremes. The model ARP920's salient features include: 15.75" (9U) high and is designed for flush mounting into a standard 19" RETMA rack enclosure. The model AAP2000 is for panel mounting in a console. Both models comply with MIL-S-901D; Grade A shock, MIL-STD-167 vibration, MIL-STD-461D for electromagnetic compatibility. The model ARP920 serves as a direct replacement for 20" CRTs.

SPECIFICATIONS		ENVIRONMENTAL	
Display		Temperature:	
Display Type:	20.1" TFT Active Matrix LCD	Operating: (Sea Level)	0°C to 50°C, MIL-STD810E Method 501.3/502.3, Procedure II
Active Display Area:	359 x 287 mm (14.135" x 11.308")	Storage:	-30°C to +70°C, MIL-STD-810E, Method 501.3/502.3, Procedure I
Pixel Pitch:	0.28 x 0.28 mm	Optional:	-40°C storage available
Brightness:	200 cd/m ² (Typical) 180 cd/m ² (Typ. w/EMI faceplate) 160 cd/m ² (Typ. w/Touch)	Humidity:	
Viewing Angle:	± 85 ° All directions (Typical)	Operating/Storage:	5 to 95% RH Non-condensing MIL-STD-810E, Method 507.3 Procedure 1
Contrast Ratio:	300:1 (Typical)	Altitude:	
Response Time:	45 ms (Typical)	Operating:	0 to 42,000 ft. above sea level
Display Colors:	16 Million	Storage:	0 to 54,000 ft. above sea level (MIL-STD-810E, Method 500.3)
Synchronization Range:	Horizontal: 31.5 to 80 kHz Vertical: 56 to 75 Hz	Rapid Decompression:	RTCA/DO-160D, 8,000 ft ASL to 42,000 ft. ASL in 15 seconds, 42,000 ft. ASL to 25,000 ft. ASL in 5 minutes
Input Signal:		Shock:	MIL-S-901D, Grade A, Class 1 Type A
Video	Analog 0.7V p-p/75 Ohms	Vibration:	MIL-STD-167-1, Type 1
Sync	Separate sync. TTL level Horizontal Sync Positive/Negative Vertical Sync Positive/Negative Composite Sync Positive/Negative Sync on Green (Video 0.7Vp-p and Sync 0.3Vp-p)	Drip Proof:	MIL-STD-810E, Method 506.3 Procedure II, Front Panel only
Input Interface:	HD-15 (VGA) & 5 BNCs	Sand/Dust:	MIL-STD-810E, Method 510.3, Front Panel only
Video Input Impedance:	75 Ohms	EMI:	MIL-STD-461D RE102, RS103, CE101*, CE102, CS101 (*4420R5C Only)
Resolutions Supported:	640 x 480 @ 60-75 Hz 720 x 400 @ 70 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 900 @ 66 Hz 1280 x 1024 @ 60-75 Hz	Power Requirements:	
Native Resolution:	1280 x 1024 @ 60 Hz	Power Supply:	90-132/180-264 VAC Auto Ranging (+28 VDC Optional)
User Controls:		Frequency:	47-440 Hz
Display Controls:	Power, Brightness, Contrast, Horizontal Width, Horizontal Phase, Horizontal & Vertical Position	Power:	60 watts typical
		Chassis Connector:	IEC 320
		Cable Connector:	NEMA 5-15 P
		Dimensions & Weight:	Rack Mount
		Height:	ARP920
		Width:	15.72" (9U)
		Depth:	18.00"
		Weight:	19.00"
			3.95" *
			24 Lbs.
			37 Lbs. (with touch)
			Panel Mount
			AAP2000
			18.00"
			21.25"
			4.50"
			37 Lbs. (with touch)
		Compatibility:	PCs, Workstations, & X-Terminals
		Options:	NTSC Input, Brightness & Contrast Enhancements, Sunlight Readable
		Touch Screens:	Capacitive



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