

AVR-D22

21.5" Rugged Monitor



Features

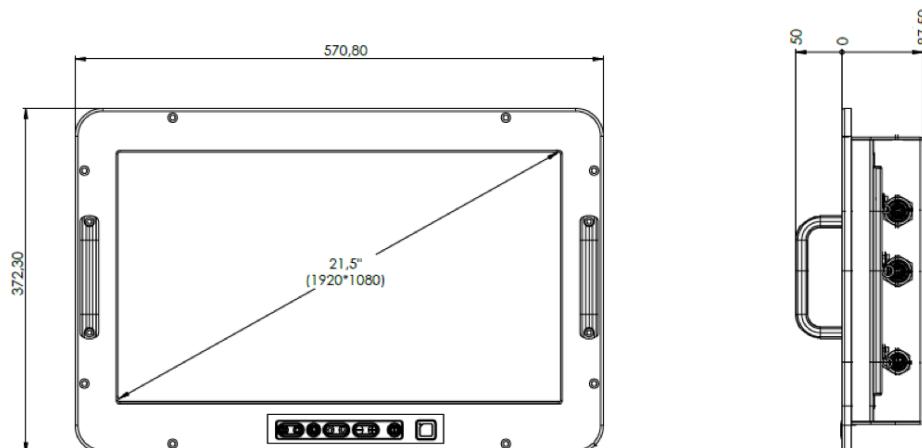
- Full HD 1920x1080 native resolution 21.5" TFT-LCD
- Dual HDMI/DVI inputs, selectable via front panel
- Sunlight Readable with 1200+ NITS, anti reflective
- Operation Temperature: -20°C ~55°C
- Fully Qualified to MIL-STD-810, MIL-STD-461
- IP65 rated, D38999 connectors
- Optional 5 wire resistive touch screen

The Rugged Monitor is a 21.5" Full HD display with 2 HDMI/DVI inputs which can be selected via a front panel button. It is housed in a ruggedized, sealed weatherproof chassis and includes optical bonding and EMI mesh on the LCD with optional resistive touchscreen. The system is fully qualified to MIL-STD-810G for shock and vibration, and MIL-STD-461 for Electromagnetic compatibility. The 18-36VDC input meets MIL-STD-1275/704 for power and all the connectors are D38999 type.

Specification

Display	Resolution	1920x 1080 pixels native up to 60Hz	
	Panel size, type	21.5" TFT-LCD with 16:9 aspect ratio, anti-reflective coating	
	Pixels	0.24825mm dot pitch, 1000:1 contrast ratio	
	Colors, Response time	16.7M colors, 14 mSec (Tr + Tf)	
Backlight	Brightness	1200+ NITS daylight readable	
	Dimming	0 – 1200+ NITS via front panel buttons	
Video	Video in	2 separate inputs DVI/HDMI up to full HD	
	Input Selection	Input Switching via front panel button	
	OSD	OSD controls via front panel buttons	
Power Supply	18-36VDC Input, maximum 50W (nominal 30W), MIL-STD-1275/704 compliant		
Environment		Operating	Storage
	Temperature	-20 ~ 55° C	-46 ~ 74° C
	IP Rating	IP65	
	Environmental	MIL-STD-810H	
	EMI/EMC	MIL-STD-461F	
Physical Characteristics	Dimensions (W x H x D)	571 x 372 x 138 mm	
	Weight	8.3 Kg	

Dimensions



Connectors

J1	D38999/24WB98PN	Power in 18-36VDC
J2	D38999/24WC35SN	DVI/HDMI Input 1
J3	D38999/24WC35SN	DVI/HDMI Input 2

MIL-STD-461F Compliance

Fully Qualified to the following:

Requirement	CE102	Conducted emissions, power leads, 10 kHz to 10 MHz
	CS101	Conducted susceptibility, power leads, 30 Hz to 150 kHz
	CS114	Conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz
	CS115	Conducted susceptibility, bulk cable injection, impulse excitation
	CS116	Conducted susceptibility, damped sinusoidal transients, cables and power leads, 10 kHz to 100 MHz
	RE102	Radiated emissions, electric field, 2 MHz to 18 GHz
	RS103	Radiated susceptibility, electric field, 2 MHz to 18 GHz, 50V/m

MIL-STD-810H Compliance

Fully Qualified to the following:

Requirement	Low pressure (Altitude)	Method 500.5, Procedure I, II Operation/Air Carriage to 4572m (15.000 ft)
	Low Temperature Operation	Method 502.5, Procedure II, -20°C
	High Temperature Operation	Method 501.5, Procedure II, +55°C
	Low Temperature Storage	Method 502.5, Procedure 1, -46C
	High Temperature Storage	Method 501.5, Procedure 1, +74C
	Humidity	Method 507.5 Procedure II, Aggravated cycle 85%-95% RH without condensation
	Salt Fog	Method 509.5, Procedure I, 2 cycles of 48hrs Salt Spray (50±5) g/L
	Sand and Dust	Method 510.5 Procedure I
	Immersion	IP65
	Vibration	Method 514.6, Functional Vibration 2.2GRMS Method 514.6 Tactical Transportation F-550 Method 514.6, Category 7 Air Transportation Method 514.6, C-130 (J/K) aircraft unpacked Method 514.8, Category 4 Ground Transportation
	Shock	Method 516.6, 10G, 11ms, Proc I Road Transportation Method 516.6, 75G, 6ms Procedure V Crash Hazard Method 516.6 Procedure IV Transit Drop Method 516.6 Procedure IV Bench Handling
	Contamination by Fluids	Method 504.1 Procedure II, Table I

Ordering Information

AVR-D22	Rugged 21.5" Monitor with Dual Switchable inputs
AVR-D22-RT	Rugged 21.5" Monitor with Dual Switchable inputs and Resistive touchscreen