

Computer DYNAMICS



VAMP-MM-20

20.1" Military Grade Console Display

Features

- 20.1" 1600x1200 TFT display
- On-screen Display (OSD)
- MIL-810G Shock & Vibration
- MIL-810G Sand & Dust
- MIL-STD 461E EMI/EMC
- Anti-Corrosion Housing
- Optional touchscreen

The VAMP-MM-20 is a Military Grade Console flat panel monitor featuring a 20.1" 1600x1200 16.7M color TFT LCD with a ~180 degree viewing cone, and optional resistive touchscreen. The system is housed in a fanless, anti-corrosion enclosure that can be mounted on a wall, rack, or VESA mounted. The VAMP-MM-20 has been certified to MIL-STD 810G for Temperature, Humidity, Altitude, Shock, Vibration, and Sand & Dust.

The unit interfaces with any standard VGA/ SVGA/XGA analog video signal through a 15 pin D-Sub, 5 x BNCs, or a DVI-D Interface. The optional five-wire resistive touchscreen with EMI Mesh Filter interfaces through a RS-232 port.

VAMP-MM-20 Military Grade Console Display

Specifications

Display

- 20.1" 1600x1200 16.7M color AMTFT LCD

Brightness

- 300 nits

Contract Ratio

- 800:1

Viewing Angle

- +/-89° X and Y axis

Front Controls

- Power, Menu, Auto, Up/Down, Brightness

Auto-Dimming

- Auto-dimming control via an Ambient Light Sensor

OSD

- Auto-configuration; Brightness; contrast; Clock; Phase; H-, V- and OSD-position

Plug & Play

- DDC1/2B compatible

Power

- 90W; VESA DPMS compatible

Power Input

- 100 – 240V AC, 50 – 60 Hz input
- Input connector MIL-38999 style

Scanning freq.

- Horizontal sync.: 31.5 KHz to 80 KHz
- Vertical sync.: 60 Hz to 75 Hz; 1600x1200 @60 Hz

Weight

- 21 lbs (9.4 kg)

Temperature

- Operating: -20° to +60°C
- Storage: -40° to +70°C

Humidity

- 5 – 95%

Options

Touchscreen

- Resistive with EMI Mesh

Mil Grade Compliance

MIL-STD-461E

Test Spec	Frequency Range	Requirement
CE101	30Hz ~ 10kHz	30Hz ~ 1kHz: 110dB 1kHz ~ 10kHz: 110-90dB
CE102	10kHz ~ 10MHz	10kHz ~ 500KHz: 100-66dB 500KHz ~ 10MHz: 66dB
CS101	30Hz ~ 150kHz	Above 28 Volts 30Hz ~ 5kHz: 136dbμV, 5KHz~150kHz: 136~106.5dB
CS106	transients, power leads	Vpeak = 400 V for 5.0 μsec, ±22%, Vsag <= 120 V for <=20 μsec
CS109	60Hz ~ 100kHz	60-100kHz : 120-60dBμA
CS114	10kHz ~ 200MHz	10kHz~2MHz:49~89dbμA , 2MHz~30MHz:97dbμA, 30MHz~200MHz:97~89dbμA
CS115	Impulse excitation	5A/ 30nS, at a 30 Hz rate for one minute
CS116	10kHz ~ 100MHz	Waveform: $e - (\pi f t) / Q \sin(2\pi f t)$, $Q = \pi(N - 1)/\ln(IP/IN)$, Peak current =10A
RE101	30Hz ~ 100kHz	30~100kHz :180-110 dBpT
RE102	10kHz ~ 18GHz	2MHz~18G Hz: 44-89 dB
RS101	30Hz ~ 100kHz	30Hz~100kHz :180-116 dBpT
RS103	2MHz ~ 40GHz	2MHz-30MHz / 30MHz-1GHz / 1GHz-18GHz space :20V/m

MIL-STD-810G

Temperature	Operating	-20°C to 60°C, MIL-STD 810G Method 501/502, Procedure II
	Storage	-40°C to 70°C, MIL-STD 810G Method 501/502, Procedure I
Temperature Shock	Operating	-20°C to 60°C, MIL-STD 810G Method 503.5, Procedure I-B
Humidity	Operating	20°C to 60°C @ 95% RH, MIL-STD-810G Method 507.5
	Storage	33°C to 63°C @ 95% RH, MIL-STD-810G Method 507.5
Altitude	Operating	0 to 15,000 ft above sea level Method 500.5 Procedure II
Shock	MIL-STD-810G, Method 516.6; 40G, 11ms sawtooth pulse 3 per axis, all 6 axis	
Vibration	MIL-STD-810G, Method 514.6 Procedure I; 5~500Hz (x=1.48, y=1.90, z=2.24) Grms, 1 hr in each axis	
Sand & Dust	MIL-STD-810G, Method 510.5 Procedure I	

About Computer Dynamics

Computer Dynamics (A CIMTEC Automation Company) is a leading global provider of flat panel display solutions for a wide range of industries and applications. Our comprehensive product offering includes open-frame, enclosed, and environmentally sealed flat panel display systems in both computer and monitor configurations. Whether you're looking for one of our standard products or a fully custom solution, Computer Dynamics has the breadth, experience and support to deliver what you need. For more than 25 years, CIMTEC Automation has been providing automation solutions throughout the world that deliver value, performance, and innovation.

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