



Solutions for Demanding Applications

## 20.1" Xtreme Rugged Military Grade Rack Mount



This 20.1" UXGA (1600 x 1200) rack mount, rugged flat panel LCD system is a thin and lightweight display offering significant benefits with respect to dimensions and ruggedization. This model combines unmatched dimensional height (8U) with exceptionally low weight to provide a unique, rugged display solution, especially for applications where space and weight are critical. It is designed to withstand harsh ambient environments and has enhanced shock and vibration safeguards. This rugged display satisfies a wide variety of military applications and is integrated with a very bright (300 nits cd/m<sup>2</sup>), high-contrast and extremely durable NEMA 4 (IP65) TFT display.

### FEATURES

- ◆ 20.1" Bright Active Matrix TFT Display
- ◆ Ultra Low Height of only 8U (units) Rack Mount Configuration
- ◆ UXGA (1600 x 1200) Resolution
- ◆ Bonded (VBOND) Protective Glass Overlay or Touch Screen with Sealed Waterproof Gasket
- ◆ Conformal Coating of all Internal Circuit Boards
- ◆ Engineered with Defenses to Combat Excessive Shock & Vibration
- ◆ A multitude of Video Inputs: HD15(F), DVI-D Pin, Composite BNC, Mini Din (S-video)
- ◆ High Contrast Ratio & Definition, Outstanding Vivid Color & Image Quality
- ◆ Machined Rugged Black Powder-Coated Rack Bezel
- ◆ Machined NEMA 4 (IP65) Rated, Black Powder Coated, Very Rugged Aluminum Gasket Sealed Enclosure
- ◆ Wide Color Gamut
- ◆ 16.8 million colors
- ◆ Energy Efficient, Low Power Consumption
- ◆ High Environmental Performance and Reliability
- ◆ Wide Operational Temperature Range, -20°C to +50°C (-4°F to +122°F) (optional extended temperature ranges available)
- ◆ Engineered, Fabricated and Assembled in the USA
- ◆ Engineered and Manufactured by VarTech Systems, an ISO 9001 Registered Company
- ◆ Two (2) Year Warranty

### SPECIFICATIONS

#### Display Size

20.1 Inch

#### Rack Mount Size

8 units (8U)

#### Panel Type

TFT Active with Bonded (VBOND)  
Protective Glass Overlay or Touch  
Screen with Sealed Waterproof Gasket

#### Resolution

VGA to UXGA\*

#### Pixel Format

640 x 480, 800 x 600, 1024 x 768  
1280 x 1024, 1600 x 1200\*

#### Pixel Pitch

.255mm (w) x .255mm (h)

#### Viewing Angle

Left / Right: 178°/178°  
Up / Down: 178°/178°

#### Active Display Area

16.062" (w) x 12.047" (h)  
408.00mm x 306.00mm

#### Contrast Ratio

800:1

#### Brightness

300 Nits cd/m<sup>2</sup> Typical

#### Colors Supported

16.8M

#### Backlight

50,000 Hrs Typical

#### Video Input

0.7Vp-p / 75 ohm Digital

#### Sync

TTL Separate H&V,  
Combined, SOG

#### Input Connectors

HD15(F), DVI-D Pin, (NTSC / PAL)  
5 PIN MINI—DIN (S-Video), Dual VGA  
Input

#### Optional:

HD15(M) - 5xBNC(F) Interface Cable

#### Power Connector

Amphenol, Bayonet Mating,  
Meets MIL-C-5015

#### Power

12VDC

#### Optional:

90-264VAC Universal  
24VDC @ 2.8A  
18-30VDC

#### Power Consumption

50 Watts @115VAC

#### Temperature

Operating: -20 to 55°C (-4 to 131F)  
(Optional Operating: -40° C/-40F)  
Storage: -20 to 60°C (-4 to 140F)

#### Humidity

Operating: 10 to 95%NC  
Storage: 10 to 95 NC

#### Altitude

Operating: up to 10,000 ft (optional Avionics  
for high altitude available)  
Storage: up to 40,000 ft

#### EMI

FCC Part 15 - Class B\*  
**Optional:** MIL-STD-461E\*

#### Dimensions

18.984" (w) x 13.968" (h)  
482.19mm x 464.668mm

#### Depth Behind Panel

3.144" / 108.74mm

#### Weight

19.0 lbs

#### Bezel Finish

Black Powder Coat Finish Aluminum Bezel

#### Touch Screen

**Optional:**  
Resistive or Capacitive

#### Touch Interface

Serial (Optional USB)

\* Designed to Meet

### CONTACT

#### HEADQUARTERS

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### OPTIONS

- Touch Screen: Capacitive, Resistive Touch, Armor Touch
- EMI/RFI conductive ITO coating or Transparent EMI/RFI Micro Mesh for MIL-STD 461E Compliance
- Automatic Dimming Sensor
- Integrated Heaters & Thermostat for extended Operational Temperature Range down to -40°C (-40°F)
- 9-36V variable DC, 12VDC or 24VDC Power