



20.1" Xtreme Rugged Military Grade Panel Mount



This 20.1" UXGA (1600 x 1200) panel mount, rugged flat panel LCD system is a thin and lightweight display offering significant benefits with respect to dimensions and ruggedization. This model is 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/m²), high-contrast and extremely durable NEMA 4 (IP65) TFT display.

FEATURES

- 20.1" Bright Active Matrix TFT Display
- UXGA (1600 x 1200) Resolution
- Bonded (VBOND) Protective Glass Overlay or Touch Screen with Sealed Waterproof Gasket
- Conformal Coating of all Internal Circuit Boards
- A multitude of Video Inputs: HD15(F), DVI-D Pin, Composite BNC, Mini Din (S-video)
- MIL-DLT-38999 Series III Power connector (AC power standard, optional DC available)
- High Contrast Ratio & Definition, Outstanding Vivid Color & Image Quality
- 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)
- Complies with FCC Class B (optional 461 protection available)
- RoHS Compliant
- Engineered and Manufactured by VarTech Systems, an ISO 9001 Registered Company
- Engineered, Fabricated and Assembled in the USA
- ◆ Two (2) Year Warranty

SPECIFICATIONS

Display Size

20.1 Inch

Panel Type

TFT Active

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

16.172" (w) x 12.152" (h)
410.77mm x 308.66mm

Picture in Picture

Small Window: 3.6" (w) x 2.9" (h)
Med Window: 5.0" (w) x 4.9" (h)
Large Window: 6.5" (w) x 5.0" (h)

Contrast Ratio

800:1

Brightness

300 Nits Typical, with full-range manual dimming

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)

Optional:

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

Power Connector

Amphenol, Bayonet Mating, Meets MIL-C-5015

Power

12VDC

Optional:

90-264VAC Universal

24VDC

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*

Bezel Outside Dimension

20.466"(w) x 16.464"(h)
519.84mm(w) x 418.19mm(h)

Cut Out Dimension

19.130"(w) x 15.130"(h)
485.90mm(w) x 384.30mm(h)

Depth Behind Panel

3.310" / 84.07mm

Stud Size & Screw Length

10-32 x .62"

Chassis Construction

18 gauge Stainless Steel

Bezel Finish

Black Powder Coat Finish
Aluminum Bezel

Optional:

NEMA 4X Stainless Steel

Touch Screen

Optional:
Resistive or Capacitive

Touch Interface

Serial

Optional:

USB

** Designed to Meet*

CONTACT

HEADQUARTERS

11529 Sun Belt Ct.
Baton Rouge, Louisiana 70809

Phone 800.223.8050

International

001.225.298.0300

Fax 225.297.2440

E-mail

sales@vartechsystems.com

Website

www.vartechsystems.com

OPTIONS

- Touch Screen: Capacitive, Resistive Touch, Armor Touch
- NEMA 4X (IP66) Protection
- 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