



20.1" Xtreme VESA Mount Military Grade LCD



This 20.1" UXGA (1600 x 1200) VESA mount (100mm), rugged flat panel LCD system is a thin and lightweight display which offers significant benefits with respect to dimensions and ruggedization. This model provides a unique, rugged display solution, especially for applications where space and weight are critical. It is designed to withstand harsh ambient environments with enhanced shock and vibration safeguards designed into its structure. 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, first-class TFT display.

SPECIFICATIONS

FEATURES

- 20.1" Bright Active Matrix TFT Display
- UXGA (1600 x 1200) Resolution
- Machined Black Powder Coated Rugged Aluminum Enclosure
- 100mm VESA Mounting
- 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
- Wide Viewing Angles
- 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
- RoHS Compliant
- Engineered and Manufactured by VarTech Systems, an ISO 9001 Registered Company
- Engineered, Fabricated and Assembled in the USA
- ◆ Two (2) Year Warranty

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

16.170" (w) x 12.150" (h)
410.72mm x 308.61mm

Picture in Picture

Small Window: 3.6" (w) x 2.9" (h)
Med Window: 5.0" (w) x 9" (h)
Large Window: 6.5" (w) x 5.0" (h)

Contrast Ratio

800:1

Brightness

300 Nits Typical, with full-range manual dimming
Optional: Actively enhanced panel for readability in high ambient light conditions

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

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 /RFI

Optional:
MIL-STD-461E*

Outside Dimension

19.170" (w) x 15.150" (h)
486.92mm(w) x 384.81.4mm(h)

Depth Behind Panel

3.310" / 84.07mm

Weight

24.2 lbs / 11 kg

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
- 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