



Solutions for Demanding Applications

## 8.4" Xtreme Rugged Military Grade Flat Panel

The NEMA 4 (IP65) rated rugged LCD flat panel is adaptable to extreme environments. The display has the ability to withstand harsh ambient environments, has enhanced shock and vibration safeguards as well as Electromagnetic Environmental Interference protection.

The VT084PX comes standard with optically bonded chemically strengthened front protective glass for added Shock & Vibration protection and reduced solar reflectivity.



### FEATURES

- ◆ Bright TFT Display
- ◆ Optically bonded chemically strengthened front protective glass with optional EMI coating
- ◆ Manual Full-Range Dimming to black
- ◆ Conformal Coating of all internal circuit boards
- ◆ Integrated heaters for extended operational temperature capabilities
- ◆ Front or Rear Controls

#### Marks of Conformity:

FCC47 CFR part 15, subpart B  
EMC: EN 55022:2006, EN 55024:1998, CISPR 22:2005, CISPR 24:1997  
Canada: ICES-003  
Australia/New Zealand: AS/NZS CISPR 22  
CE  
RoHS  
WEEE



### SPECIFICATIONS

#### Display Size

8.4 Inch

#### Panel Type

TFT Active

#### Resolution Capabilities

VGA\*

#### Pixel Format

640x480\*

#### Pixel Pitch

.267mm

#### Active Display Area

6.78" (w) x 5.16" (h)  
172.2mm (w) x 131.1mm (h)

#### Viewing Angle

Left / Right: 65/65 Degrees  
Up / Down: 60/50 Degrees

#### Contrast Ratio

450:1

#### Brightness

400 Nits (cd/m2) Typical, with full-range manual dimming

**Optional:** Actively enhanced panel for reliability in high ambient light conditions

#### Backlight

50,000 hours Half Life

#### Colors Displayed

262,144

#### Video Input Connector

HD15(F), RCA (NTSC/PAL)  
5 Pin Mini Din (S-Video)

#### Optional:

HD15 to 5BNC Interface Cable

#### Video Input

Analog 0.7 Vp-p, NTSC/PAL

#### Sync

Separate V&H, Combined, SOG

#### Power Source

**Connector: Amphenol, Bayonet Mating,**

**Meets MIL-C-5015**

12VDC @ 1.00A

#### Optional:

90-264VAC Universal

24VDC @ 0.50A

18-30VDC

#### Power Consumption

25 Watts

#### Temperature

Operating: -20°C to 50°C (-4° to 122°F)  
(Optional Operating: -40°C/-40°F , 55°C/131°F)

Storage: -20°C to 60°C (-4° to 140°F)

#### Humidity

Operating : 10 to 95%NC

Storage: 10 to 95%NC

#### EMI

FCC Part 15 - Class B\*

**Optional:** MIL-STD-461E\*

#### Shock

MIL-STD-901D\*

#### Vibration

MIL-STD-167\*

#### Drip Proof

MIL-STD-810E\*

#### Sand Dust

MIL-STD-810E\*

#### Altitude

Operating: up to 10,000 ft

Storage: up to 40,000 ft

#### Dimensions

10.624" (w) x 8.939" (h)

269.8mm x 227.1mm

#### Depth

2.313" / 58.7mm

#### Chassis Construction

16 Gauge Stainless Steel

#### Bezel Finish

**NEMA 4 (IP65)**

Black Powder Coat Finish

Aluminum Bezel

**Optional NEMA 4X (IP65):**

Stainless Steel

#### Touchscreen

**Optional:**

Resistive

#### Touch Interface

Serial

**Optional:**

USB

\*Designed to Meet

### CONTACT

#### HEADQUARTERS

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### OPTIONS

- 90-264 VAC Universal Power Supply
- 24VDC @ 0.50A
- Resistive Touch
- Stainless Steel NEMA 4X (IP66) Front Panel
- Automatic Dimming Sensor
- EMI/RFI conductive ITO coating to of
- 12 ohms/sq. bonded front protective glass
- Transparent EMI/RFI Micro Mesh for MIL-STD 461E Compliance
- Transparent Heaters for -40C /-40°F Operation
- Frontal Handles