



# TFX

## 2U RACKMOUNT TRIFOLD LCD MONITOR

Our TFX Displays are rugged, military grade, high performance, 2U rackmount LCD panel displays offering three 17.3-inch or 19-inch displays.

With exceptional strength, the displays provide expansive working space. The TFX is optimal for extreme outdoor environments due to its brightness and ability to operate in widely varied temperatures.

Specifications for our standard products can always be customized to fit your unique application requirements



## CHASSIS SPECIFICATIONS

### DIMENSIONS (DEPLOYED)

19" X 3.5" X 24.1" (482.6mm X 88.9mm X 613.2mm)  
49.9" wide x 19.6" high (from bottom of front panel, varies by configuration)

### WEIGHT

approx. 37lbs (varies by configuration)

### OPTIONAL DISPLAY ENHANCEMENTS

**VANDAL SHIELD** - Using an enhanced AR, scratch-resistant, and oleophobic coating

**SAFETY GLASS** - Using soda lime float glass, bonded to the LCD panel with optical index matched adhesive

**EMI PROTECTION** - Using a laminate of smudge-resistant AR coated soda lime float glass panel and ITO coated glass panel (<math><12.5\Omega/\text{sq}</math>) grounded via a copper buss bar, bonded to the LCD panel with optical index matched adhesive

### CONSTRUCTION

High-strength 5052-H32 aircraft-grade aluminum. 0.38" solid milled front panel  
Stainless self-locking hardware throughout

### POWDERCOATING

Black per MIL-PRF-24712, Type IV, Class 3  
Cardinal C214- BK110 polyester semi-gloss, fine texture

### PLATING

Chem-Film per MIL-C-5541F, Class 1A

### SLIDES

Solid Bearing Slides (Friction Slides), 15.4-inches of travel  
Lock-out button. Stainless self-locking hardware throughout

### SUPPORT AND STABILIZATION

Gas strut assisted opening and lock down. Left/right monitor positions adjustable

## Who We Are

CP North America designs, fabricates, and integrates standard and customized high-performance computing platforms and LCD monitors for military, industrial, and commercial applications.

Using COTS components, CP North America provides solutions for customers who need reliable systems that will operate in a variety of harsh conditions and who require revision control and hardware consistency for multi-year programs.

CP North America is an ITAR Registered and ISO 9001:2015 Certified business that has been operating for over twenty years.

**Assembled in the USA**  
**ISO 9001:2015 Certified**  
**ITAR Registered**

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# TECH SPECS

	<b>17.3" CHASSIS</b>	<b>19" CHASSIS</b>
<b>SCREEN DIAGONAL</b>	17.3"	19"
<b>OPERATING/STORAGE TEMP</b>	0°C to 70°C / -20°C to 70°C	-15°C to 65°C / -25°C to 65°C
<b>CONTRAST RATIO</b>	600:1	1000:1
<b>VIEWING ANGLE</b>	160° L/R, 140° U/D	170° L/R, 170° U/D
<b>RESPONSE TIME</b>	40ms	35ms
<b>NATIVE RESOLUTION</b>	1920x1080	1280 x 1024
<b>BRIGHTNESS</b>	400 cd/m2 (1000 cd/m2)	350 cd/m2 (1000 cd/m2)
<b>BACKLIGHT</b>	LED, edge-lit	LED, edge-lit
<b>COLORS</b>	16.7M	16.7M
<b>POWER INPUT OPTIONS</b>	Universal AC Adapter (150W 12 VDC) Universal AC Adapter (Hi-Bright 220W 12 VDC) 28 VDC CPNA Integrated Workstation Power	Universal AC Adapter (150W 12 VDC) Universal AC Adapter (Hi-Bright 220W 12 VDC) 28 VDC CPNA Integrated Workstation Power
<b>POWER DISSIPATION</b>	123 Watts	155 Watts
<b>EXTERIOR POWER JACK</b>	Yes	Yes

## HARSH ENVIRONMENTS

CP North America designs, builds, and tests our ruggedized offerings to meet MIL-STD-810, 461, and 901. This includes environmental factors such as:

- **HIGH ALTITUDE**
- **EXTREME HIGH & LOW TEMPERATURES**
- **EMI**
- **HUMIDITY**
- **BLOWING SAND AND DUST**
- **VIBRATION**
- **SHOCK**

## INPUTS

- DVI-I
- HDMI
- DisplayPort
- VGA via DVI-I Adapter

## ENGINEERED TO YOUR SPECIFICATIONS

- In-house engineering department
- Design and build of rapid prototypes. Experience with solving difficult customer application problems through knowledge of the industry and custom system design and manufacturing capability
- Our Engineers use Solid Works 3D CAD modeling software for mechanical design and thermal simulation
- Design experience with MIL-STD-167, MIL-STD-461, MIL-STD-810, and MIL-S-901, in addition to FCC, UL, CE, and country specific agency requirements

## REVISION CONTROL & CONFIGURATION MANAGEMENT

- Our Program Managers will assure your products are revision controlled for the life of the program
- Configuration Management to assure TAA Compliance and system compatibility
- One part number for life of the program
- Counterfeit and obsolescence management

## FACILITY AND TEST

- All integration work is performed in a state-of-the-art, ESD-controlled facility
- Our facility has 50,000 sqft and has dedicated areas for manufacturing and engineering
- Operate to anti-static standard ANSI/ESD S20.20-2007 and electronics assembly standard IPC-A-610, Revision E-2010

## QUALITY COUNTS

- ISO 9001:2015 Certified
- 100% system inspection before shipment
- All integrated systems undergo a rigorous system test and burn-in before shipment to the customer
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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