BFX | 2U RACKMOUNT BIFOLD LCD MONITOR

RUGGED BIFOLD

Our BFX Displays are rugged, military grade, high performance, 2U rackmount LCD panel displays offering two 24-inch TFT LCD displays with per panel resolution of 1920x1200. With exceptional strength, the displays provide expansive working space. The BFX1-24 model is optimal for extreme outdoor environments due to its brightness, durability and ability to operate in a wide range of temperatures.

APPLICATIONS

- Airborne Operations
- Land-based Operations
- Seaborne Operations
- Telemetry
- Severe Environment Operations
- C4ISR
- Communications
- Imaging
- Persistent Surveillance
- Diagnostics
- Simulation
- UAVs
- Automation

FEATURES

- Two 24” monitors in a 2U form factor
- Audio capability standard

CP Technologies’ 2U-5U rackmount computer systems are designed with a removable back plate that allows a 12V power cord to run from the computer’s power supply to a display or keyboard video monitor. This optional feature, the Exterior Power Jack, is available for this monitor. By running the display with the computer systems’ power supply, this Exterior Power Jack option can provide many benefits:

- *Reduction in the number of required cables*
- *Elimination of additional equipment, i.e., a power brick*
- *Reduction in total system weight and cost*

To enjoy these benefits, power up your new display with a CP Technologies’ server

Who We Are

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

Using COTS components, CP Technologies 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 Technologies is an ITAR Registered and ISO 9001:2015 Certified business that has been operating in Southern California for over twenty years.

Assembled in the USA
ISO 9001:2015 Certified
ITAR Registered

CP Technologies
2620 Deep Well Ranch Rd
Prescott, AZ 86301
combatproven.tech
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TECH SPECS

BFX ENCLOSURE DETAILS

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) Lock-out button. Stainless self-locking hardware throughout Includes Extension Bracket (0 to 6.5” extension) Includes Extension Bracket (3 to 11” extension)
SUPPORT AND STABILIZATION	Gas strut assisted opening and lock down.

BFX PANEL DETAILS

	BFX1-24
SCREEN DIAGONAL	24”
OPERATING/STORAGE TEMP	0°C to 50°C / -25°C to 60°C
CONTRAST RATIO	1000:1
VIEWING ANGLE	178° L/R, 178° U/D
RESPONSE TIME	14ms
NATIVE RESOLUTION	1920x1200
BRIGHTNESS	300 cd/m2
BACKLIGHT	LED, edge-lit
COLORS	16.7M
POWER INPUT	AC input 85 to 264VAC, 1275/704 28VDC
POWER DISSIPATION	100 Watts
EXTERIOR POWER JACK	Yes
AUDIO	Yes, includes (2x) water-resistant speakers

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TECH SPECS

CHASSIS SPECIFICATIONS

DIMENSIONS	19” X 3.5” X 30” (482.6mm X 88.9mm X 762mm)
WEIGHT	37lbs
DISPLAY ENHANCEMENTS	**SAFETY GLASS (Standard)** - Using smudge-resistant AR coated soda lime float glass, bonded to the LCD panel with optical index matched adhesive **EMI PROTECTION (Optional)** - Using a laminate of smudge-resistant AR coated soda lime float glass panel and ITO coated glass panel (<12.5Ω/sq) grounded via a copper buss bar, bonded to the LCD panel with optical index matched adhesive

HARSH ENVIRONMENTS

Designed to meet or exceed MIL-STD-810G to the below specifications.

ALTITUDE	10,000 ft Operational, 30,000 ft Storage MIL-STD-810, Method 500.6
HIGH TEMPERATURE	50°/70°C Operational, 60°/80°C Storage* MIL-STD-810, Method 501.6
LOW TEMPERATURE	0°/-20°C Operational, -20°/-30°C Storage* MIL-STD-810, Method 502.6
HUMIDITY	5-95%, Non-condensing MIL-STD-810, Method 507.6
BLOWING SAND AND DUST	Procedures I and II MIL-STD-810, Method 510.6 (Front Surface, Bonded Glass only)
TRANSPORT VIBRATION	MIL-STD-810, Method 514.7
BENCH HANDLING SHOCK	MIL-STD-810, Method 516.7 Procedure VI

INPUTS

- RGBA (15 Pin VGA)
- DVI-D Input
- PAL / NTSC / SECAM
- HDMI 1.3
- Composite Video Input (optional)

SUPPORTED RESOLUTIONS

640 x 480, 800 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 800, 1280 x 1024, 1366 x 768, 1440 x 900, 1600 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1080, 1920 x 1200

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 23,000 sqft and has dedicated 12,000 sqft to manufacturing and 3,000 sqft to 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 minimum 24-hour system test and burn-in before shipment to the customer
- Assistance with 3rd party verification of system specifications
- 5-year warranty on all servers and 3-year warranty on LCD monitor products
- TAA compliant
- Built in the USA

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