



## RUGGED MPM12 DISPLAY

### MILITARY-GRADE DISPLAY

The rugged MPM12 is a 12-inch widescreen LCD with a 1280 x 800 resolution and anti-reflective, optically-bonded glass for clear visibility. It includes a 36-button front panel with 18 function buttons and an 8-button USB keypad for easy control. With USB, DVI, and MIL-Circular Power inputs, it's versatile for various connections.

Tested to MIL-Spec and DO-160E standards, the shock-mounted MPM12 is built to perform reliably in tough environments on land, in the air, and at sea, making it ideal for mission-critical operations.

- Military-grade design
- Anti-reflective glass
- Shock-mounted, DO-160E tested
- 12" Display

### FEATURED SPECIFICATIONS

#### DIMENSIONS

**Height:** 7.50" | **Depth:** 2.35" | **Width:** 12.00"

#### DISPLAY

12" HD LCD

#### RESOLUTION

1280 x 800

#### DISPLAY INPUT

DVI-D x 2

Mil-Circular Power Connector

#### POWER

50W 18-36V DC



## TECHNICAL SPECIFICATIONS

### DIMENSIONS

**Height:** 7.50" | **Depth:** 2.35" | **Width:** 12.00"

### INTERFACES

36x button panel (front)

### DISPLAY

12" HD LCD

### RESOLUTION

1280 x 800

### DISPLAY INPUT

DVI-D x 1

Mil-Circular Power Connector

### POWER

50W 18-36V DC

### BLANKING

Enable/disable all externally visible indicators from emitting light via the "blanking command"

### BRIGHTNESS CONTROL

Two buttons to control brightness

### CONTRAST RATIO

800

### DISPLAY COLOR

16.7M colors

### DISPLAY LUMINANCE

1000 nits luminance

### DISPLAY SURFACE

Hardened glass 6H

### RESPONSE TIME

35 ms

### TOUCH DISPLAY

Multi-touch

### POLARITY PROTECTION

Protected against incorrect polarity connection on the power input within the normal operating voltage range

### CHASSIS MATERIAL

Aluminum

### COOLING

Passively cooled

### EARTH POINT

M6 12 mm

### SURFACE TREATMENT CHASSIS

Chromit-Al

### MTBF

56,000 h

### CE

Compliant



## ENVIRONMENTAL SPECIFICATIONS

### FUNCTIONAL SHOCK - OPERATING

MIL-STD-810H, Method 516.8, Procedure I, Terminal peak sawtooth pulse, Ground material, 40 g, 11 ms

### HIGH TEMPERATURE - OPERATING

MIL-STD-810H, Method 501.7, Procedure II - Operation, 60 °C (140 °F)

### HIGH TEMPERATURE - STORAGE

MIL-STD-810H, Method 501.7, Procedure I - Storage, 71 °C (160 °F)

### IP CLASS (SOLID PARTICLE PROTECTION)

IP Class 6X

### IP CLASS (WATER)

IP Class X7

### LOW AIR PRESSURE - RAPID DECOMPRESSION

MIL-STD-810H, Method 500.6, Procedure III - Rapid decompression, 2,438 m (8,000 ft), 12,192 m (40,000 ft)

### LOW AIR PRESSURE - OPERATING

MIL-STD-810H, Method 500.6, Procedure II - Operation/air carriage, 4,572 m (15,000 ft)

### LOW TEMPERATURE - OPERATING

MIL-STD-810H, Method 502.7, Procedure II - Operation, -40 °C (-40 °F)

### LOW TEMPERATURE - STORAGE

MIL-STD-810H, Method 502.7, Procedure I - Storage, -46 °C (-50.8 °F)

### NOISE LEVEL

Maximum noise level of 40 dB SPL A-weighting at 1 m (3.3 ft) distance

### SALT FOG

MIL-STD-810H, Method 509.7, 5 ± 1% (by weight), Two cycles, 24 h wet + 24 h dry/cycle

### TEMPERATURE SHOCK - OPERATING

MIL-STD-810H, Method 503.7, Procedure I-C, Multi-cycle shocks from constant extreme temperature, 55 °C (131 °F) and -40 °C (-40 °F)

### VIBRATION - HELICOPTER

MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter

### VIBRATION - LOOSE CARGO

MIL-STD-810H, Method 514.8, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo

### VIBRATION - TRACKED VEHICLE

MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 20 - Ground vehicle - ground mobile, Tracked vehicle

### VIBRATION - WHEELED VEHICLE

MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 20 - Ground vehicle - ground mobile, Wheeled vehicle

### EMC

MIL-STD-461F CE & RE emissions