

# MILGUARD 46"

## Multi-Touch Enabled Display



### OVERVIEW

The RuggedScience 46-inch MILGUARD Flat Panel Display (FPD) features a fanless, 46-inch 1920x1080 high definition LCD display. This ruggedized, large format display features an LED-backlight that disperses very little heat and allows for fanless operation in harsh operating temperatures from 0°F to 122°F. The LCD panel is protected with a layer of tempered glass that is optically bonded to the panel and has a layer of anti-reflective coating for exceptional clarity and vivid contrasts. The 46in MILGUARD incorporates the latest in technological advances offering wide viewing angles for control systems that feature high information density.

The front of the display features an Infrared Multi-Touch Touchscreen that is equipped with technology that is resistant to dust, debris, and other particles that collect on the bezel. The 46-inch MILGUARD FPD comes standard with 500 nits of brightness.

### FEATURES

- Fanless 0°C to 50°C Operating Temperature
- 46-in 1920x1080 LCD Display
- 16:9 Aspect Ratio for Widescreen Format
- Infrared Multi-Touch Touchscreen (works with Fire Fighting Gloves)
- HDMI Input for High Definition Audio and Video over a single cable
- Shock: MIL-S-901D, Grade A
- Vibe: MIL-STD-167-1
- EMI: MIL-STD-461G

### Display Specifications

<b>Panel Size &amp; Type</b>	46in Diagonal Active Matrix TFT LCD Display
<b>Panel Display Resolution</b>	1920 x 1080 WUXGA HD Resolution
<b>Pixel Pitch (mm)</b>	0.4845 (h) x 0.4845(v)
<b>Panel Contrast Ratio</b>	4000:1 (typical)
<b>Brightness Control</b>	0% to 100% logarithmic
<b>Brightness (cd/m2)</b>	500 (typical)
<b>Display Color</b>	16.7M / 8-bit
<b>Viewing Angle</b>	89° Vertical and Horizontal
<b>Active Display Area</b>	1018.08mm (H) x 572.67 (V)
<b>Anti Reflective</b>	Anti-reflective surface treatment

### Input / Output Connectors

<b>Video Input</b>	1 x HDMI Plastic Molded Circular Connector Rated to IP67 Single HDMI Cable carries both HD Audio & Video
<b>Touchscreen</b>	USB Infrared multi-touch touchscreen
<b>Speaker</b>	110dB Speaker

### Control Buttons

<b>Front Bezel OSD Menu Buttons</b>	OSD Menu Brightness Up / Brightness Down Volume Up / Volume Down
<b>Indicators</b>	Power On / Off

### Mechanical | Electrical | Environmental

<b>Glass Thickness</b>	Optically bonded 2.8mm tempered glass
<b>Ingress Rating</b>	IP65 (Front)
<b>Dimensions</b>	47.5in (W) x 29.5in (H) x 4.66in (D)
<b>Net Weight</b>	85 lbs. without mounting bracket , 115 lbs. with mounting bracket
<b>Power Input</b>	External Input: 90 - 305 VAC (Operating) 115 / 230 VAC (Nominal) 47 - 63 Hz
<b>Power Consumption</b>	104W max (0.90 amps, 115 VAC)
<b>Panel Operating Temperature</b>	0°C to 50°C , fanless passively cooled
<b>Panel Storage Temperature</b>	-20°C to 60°C
<b>Operation Humidity</b>	0% to 95% (non-condensing)
<b>Storage Humidity</b>	0% to 95% (non-condensing)
<b>Shock</b>	MIL-STD-901D Grade A, Class 1, Type A
<b>Vibration</b>	MIL-STD-167-1, Type 1
<b>EMI</b>	MIL-STD-461G
<b>Environmental</b>	MIL-STD-810G