

## **MRD-6TR**

### **Rugged LCD Monitor**

#### **FEATURES**

- 6.4" Color LCD Monitor with excellent display performance.
- Analog video interface.
- EXPAND Function For full screen display in 640x480,.
- Wide Viewing Angle.120°
- Dot Pitch 0.2 x 0.2 mm
- 19" Rack Mount.
- DC & AC Power Input

*Preliminary*

#### **DESCRIPTION**

MILPER's MRD-6TR, Is a portable is a High Performance, Ruggedized Color LCD Monitor based on Color Active Matrix Liquid Crystal Display with an integral Cold Cathode Fluorescent Lamp (CCFL) backlight system. This TFT-LCD has a 6.4" diagonally measured active display area with VGA resolution (640 vertical by 480 horizontal pixel array.) Gray scale or the brightness of the sub-pixel color is determined with a 6-bit gray scale signal for each dot, thus presenting a palette of more than 262,144 colors. The MRD-6TR designed specifically for military tactical field and strategic applications.

The standard MRD-6TR operates from 20 - 30 VDC power source. It's dimensions of only 2.5" deep x 10" wide x 7" high, the MRD-6TR is ideally suited for sheltered, or outdoor, ground, airborne or naval applications requiring panel saving in rack mount options or transportability.



## TECHNICAL SPECIFICATION

### LCD Panel

Screen Size	6.4" / 16 cm diagonal
Horizontal Pitch	0.2x0.2 mm
LCD Panel Type	TFT Active Matrix 640x (R.G.B.) x 480 R.G.B. vertical stripe Non glare hard coated
Effective Display Area	130.6 x 97 mm
Brightness	1000 cd/m <sup>2</sup>

### Video

Video dot rate	135 MHz.
Input Impedance	
– Video	75 Ohm
– Sync	2 K Ohm
Input signal level	700 mVpp
Sync input signal	Separate sync, Composite sync, Sync on green.
Sync polarity	Positive and negative

### Optical Characteristics @ 25 °C

Contrast ratio	300 typical
Brightness	1000 nits (typ.)
Viewing angle at	Up 40°
contrast ratio > 5:1	down 50°
	left 60°
	right 60°

### Resolution and preset modes

Maximum resolution	680	
factory preset modes	H. freq.	V. freq.
640 x 480	31.5	60
640 x 480	35.0	67
640 x 480	37.5	75

### Plug and play compatibility

Display data channel DDC 1/2B  
Microsoft , Windows, 95/98 2000,XP compatible.

## ENVIRONMENTAL CHARACTERISTICS

### TEMPERATURE

Operating:	-10 - +55 °C
Intermittent:	-15 - +65 °C
Non Operating:	-20 - +70 °C

### HUMIDITY

Operating/Storage	100% RH
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### VIBRATIONS

Operating:	3 grms
Non Operating	6 grms

### SHOCK

Operating:	15g 11ms. Half Sine.
Nom Operating:	30g 11 ms Half Sine.

### ALTITUDE

Operating:	15,000 ft.
Non Operating:	30,000 ft.

### EMI/RFI

MIL-STD-461D

**RAIN** Blowing Rain

**DUST** Blowing Dust

### PHYSICAL CHARACTERISTICS

#### SIZE

2.5" D x 10" W x 7" H

#### WEIGHT POWER

TBD Kg.

20 - 30 VDC per Mil-Std-1275

These specifications are subject to change without notice