

# **Model 5420**

## **19-inch Flat Panel Monitor**

*Drop in Replacement for the Rugged Digital  
R/CGM19CDE Cathode Ray Tube*



- 19-inch TFT LCD Display
- Rugged Design for Harsh Environments
- Drop in replacement for the Rugged Digital R/CGM19CD Cathode Ray Tube
- Airborne – Shipboard – Ground Mobile

**Fully Mission Capable™**

## Model 5420 Flat Panel Monitor

The Model 5420 Flat Panel Monitor is a drop in replacement for the Rugged Digital R/CGM19CD Cathode Ray Tube. This monitor is also designed to operate in harsh environments in accordance with the following specifications:

### Environmental Characteristics

Temperature . . . . .	Operating: -20°C to 50°C	Storage: -20°C to 55°C
Humidity . . . . .	10% to 100%, Condensing	
Sand, Dust & Rain . . . . .	Sealed	
Fungus . . . . .	MIL-STD-810E, Method 508.4	
Orientation . . . . .	Any	
Vibration . . . . .	3g Sinusoidal and Random per MIL-STD-810E, Method 514.4, Procedure I	
Shock . . . . .	MIL-STD810E, Method 516.4, Procedure VI	
	Operating: 15G	Non-operating: 20G
Altitude . . . . .	Operating: 15,000 ft.	Non-operating: 50,000 ft.
EMI/EMC . . . . .	MIL-STD-461C, CE01, CE02, CE03, CS01, CS02, CS06, RE01, RE02, RS02, RS03	
ESD . . . . .	MIL-STD-1686A	

### Performance Characteristics

LCD Display . . . . .	Active Matrix Thin-Film-Transistor (TFT)
Effective Display Size . . . . .	19 in. (46cm) Diagonal
Luminance . . . . .	200 cd/m <sup>2</sup> (typical: center/all white)
Minimum Viewing Angle . . . . .	140 degrees (70 degrees up, down, left, right)
Pixel Number . . . . .	1280 x 1024 (SXGA)
Backlight . . . . .	Cathode Fluorescent Light (CFL) 4 Tubes Backlight
Contrast Ratio . . . . .	250:1 (typical)
Display Color . . . . .	16.8 million (24 bit)
Video Input (Interface) . . . . .	Analog Red, Green, Blue (75 ohms) with Sync on Green
Input Power Connector . . . . .	MIL Circular Connector

### Electrical Characteristics

Power Input – Standard . . . . .	115 - 220 Vac autoranging, 47 - 440 Hz
Power Input – Optional . . . . .	20 - 32 Vdc available
Power Consumption . . . . .	8W Power Save, 77W Nominal, 250W Max with Heater

### Physical Characteristics

Size . . . . .	19.0 in. W x 15.7 in. H x 4.1 in. D
Weight . . . . .	28 lbs.
Rack Mount . . . . .	RS-310 RETMA