

# FPD 19RT001

## 19" Rugged Flat Panel Display with Touchscreen



The FPD-19RT001 is designed for mission-critical environments where reliability is key. Ideal for military command centers and naval operations, it withstands water spray, dust, and shock with its IP54-rated protection. In industrial automation, it provides precise touch control for HMI systems, while its sunlight-readable display ensures clear visibility for field service and transportation in harsh outdoor conditions.



- 19" TFT LCD with LED backlight for optimal clarity and performance.
- 350-nit brightness with dimming range from <1 to 350 nits for adaptable visibility.
- SXGA resolution (1280x1024) ensures sharp, detailed visuals.
- 5-wire resistive touchscreen interface via USB, delivering precise control in rugged settings.
- Wide viewing angles: +/-75° horizontal, +70°/-50° vertical.
- Rugged build: Designed to meet IP67 standards and IP54-tested for dust and water resistance.
- Low power consumption: 28VDC input with a power draw not exceeding 35W.

### Vivid LCD Display • Rugged Touch Interface Mission-Ready Durability • Versatile Connectivity

The Rugged Science FPD-19RT001 is a 19" rugged flat panel display engineered for military, industrial, and harsh outdoor environments. It features a 350-nit LED backlight with adjustable dimming from <1 to 350 nits, delivering clear, detailed visuals with SXGA resolution. Built to withstand challenging conditions, it features IP54-rated protection against dust and water and a responsive 5-wire resistive touchscreen via USB. This robust display supports HDMI input, providing seamless connectivity, while its 28VDC power input and military-grade connectors ensure stable operation. With wide viewing angles, quick response times, and reliable touch accuracy, it's the ideal solution for mission-critical applications requiring durability and flexibility.

The rugged design and versatile interface make the FPD-19RT001 an essential display solution for demanding applications where reliability and performance are non-negotiable. Contact Rugged Science for tailored configurations and integration support.

## Display

Type	TFT Active Matrix LCD display with LED backlight
Dimensions (inches)	15.00 (H) x 17.94 (W) x 3.94 (D)
Weight	12 lbs
Ingress Rating	Designed to meet IP65, IP54 Certified
Screen Size	19 inch diagonal
Resolution	1280x1024 SXGA, 4:3 Aspect Ratio
Glass	2.8mm tempered glass
Coating	Anti-Reflective Coating
Brightness	350 cd/m <sup>2</sup>
Brightness Control	Push Button control <1-350 nits
Contrast	1000:1
Colors	16.7M
Min Viewing Angle	+/-75°(H), +70°/-50°(V)
Touchscreen	5-wire resistive touch via USB
OSD Menu	Front bezel-mounted OSD menu buttons
Power	INPUT VOLTAGE: 28VDC NOMINAL
Power Consumption	Not to exceed 35W
Operating Temperature	-20°C to +60°C, fanless passively cooled
I/O Ports	USB & HDMI (MIL-DTL-38999 Connector)
Shock	MIL-DTL-901E
Vibration	MIL-STD-167-1A
EMI	MIL-STD-461G

