

COMMERCIAL | INDUSTRIAL | DEFENSE

## ISD1243

**Key Features** 

- 12.1" LCD
- Resistive Touch Screen
- Video up to SXGA 800 x 600
- 100% Solid State -No Moving Parts
- External Dimmer and Volume Knobs
- LED Backlight Dims Smoothly from 0 to 100% Brightness
- Sealed Chassis
- Waterproof Connectors
- *ICE*® Technology



# **Rocky Research Intelligent Display System**



Rocky Research's Intelligent Display System is designed for use in the harshest environments encountered aboard Navy ships. The Intelligent Display is a sealed system designed to meet severe shock and vibration requirements without the aid of isolation systems. The system also features mil-standard grade connectors for power, Ethernet, and USB.

Utilizing state-of-the-art, commercial-off-the-shelf components providing the latest in display capabilities, the **ISD1243** offers a 12.1" touchscreen LCD with a resolution of 800 x 600,  $160^{\circ}(H)/160^{\circ}(V)$  viewing angle, 10ms response time,  $300cd/m^2$  brightness, 500:1 contrast ratio, and .03 pixel pitch. The **ISD1243** offers both local and remote dimming capabilities via front panel and software accessibility features.

Rocky Research's **ISD1243** contains some of the most advanced, state-of-the-art electronics available on the open market today. The unit's mechanical design incorporates Rocky Research's *ICE®* thermal management technology and expertise in ruggedization of high-density electronics.

### **System Specifications**

Size: 12.1" Diagonal LED Backlit LCD

Resolution: 800 x 600

Display Colors: 16.7M

Brightness: 300 cd/m<sup>2</sup>

Dimming: 0 to 100%

Touch Screen: 5-Wire Resistive

Refresh Rate: 60 - 75 kHz

Processor: Intel ATOM

Processor Speed: 1.91GHz

Memory: 8 GB, DDR3 1333

USB: 2 USB 2.0 external mil-std grade connectors

Expansion: PC-104 Plus

Operating System: Support Microsoft® Windows® and LINUX

Solid State Drive: 32 GB SATA II, SLC Architecture

Network: Dual Copper and Fiber Gigabit Ethernet

Speakers: Waterproof - 3 Watts x 2 each (1 each side)

Power: 120 VAC, Single phase, 60 Hz, 1.5 Amps Max

#### **Physical Specifications**

Form Factor: Wall-Mount

Dimensions: 14" W x 11" H x 5.5" D

Weight: 18 lbs

## **Environmental Specifications**

Shock: MIL-STD-901D, Grade A, Class I, Type A Certification Testing Successfully Completed

Vibration: MIL-STD-167-1, Type I Certification Testing Successfully Completed

EMI: MIL-STD-461E, Surface Ships Certification Testing Successfully Completed

Temperature:  $0 - 50^{\circ} \text{ C}$ 

Humidity: 5% to 95% non-condensing

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