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°(H)/160°(V) viewing angle, 10ms response time, 300cd/m² 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.

**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
System Specifications

- **Size:** 12.1” Diagonal LED Backlit LCD
- **Resolution:** 800 x 600
- **Display Colors:** 16.7M
- **Brightness:** 300 cd/m²
- **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° C
- **Humidity:** 5% to 95% non-condensing