

Cool solutions to thermal problems.

Rocky
Research

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°(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.

System Specifications

Size:	12.1" Diagonal LED Backlit LCD
Resolution:	800 x 600
Display Colors:	16.7M
Brightness:	300 cd/m ²
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