

# ISI 2500 TIC

## Technology that saves time™

**Operational in three seconds, the ISI 2500 is ready when you need it most. Whether quickly locating the seat of the fire, Rapid Intervention Team rescue, or sizing up the scene fast, the ISI 2500 needs no standby mode to be instantly available. The ISI 2500 NiMH rechargeable battery is designed to operate a minimum of four hours thus eliminating the need to change batteries while at the fire scene.**

### **RELIABILITY**

Taking into consideration the extremely harsh environment, the ISI 2500 is designed to withstand a 10 foot drop and remain operational and without any cosmetic damage. Along with being IP67 waterproof (with or without a battery in place) the ISI 2500 is vibration and RFI tested to assure peak performance. Flame retardant straps, bumpers, outer shells, and battery housings pass flame testing similar to SCBA required testing.

### **PERFORMANCE**

The ISI 2500 is designed around the state-of-the-art uncooled thermal imaging technology from L-3 Infrared Products\*, which utilizes highly integrated DSP-based signal processing electronics and enhanced image processing to provide the highest standard of imaging performance available. In addition to automatic contrast control, the sensor uses an Electronic Integration Mode to optimize image quality in high thermal energy scenes.

### **SIMPLICITY**

With its one button operation, light weight binocular style design, and slide-on external battery, the ISI 2500 is user-friendly and simple to operate. The ISI 2500 comes standard with a diagnostic external battery charger, which not only indicates the charge status of the battery but also informs the user if either the charger or the battery is non-operational. An internal battery charger with the same diagnostic capabilities, two NiMH batteries, a neckstrap, and ACCUTEMP® direct digital temperature readout are also included with the standard camera package.

### **OPTIONS**

The ISI 2500 offers a remote LCD with telescoping pole that allows you to search hard-to-reach areas such as attics, basements and confined spaces, without putting yourself directly into the hazardous environment. An external multi-channel transmitter is available to send images from within a fire scene to the command center. An ergonomically designed handle can be utilized for easier one-handed operation.

*\*formerly Raytheon Infrared*



# ISI 2500 Thermal Imager Camera

## GENERAL DESCRIPTION

Dimensions	H=5.25"; W=6.25"; L= 8"
Weight	3.8 lbs with battery 2.7 lbs without battery
Impact Resistance	10 Feet
Water Resistance	IP67
Start-up Time	3 Seconds
Temperature Tolerance	200° F for 46 minutes 300° F for 26 minutes 500° F for 8 minutes

## MATERIALS DESCRIPTION

Casing Shell	Ultem® Thermoplastic
Bumpers & Visor	Silicone
Sidestraps	Kevlar®

## OPTICS

### Thermal Lens

Type	Germanium
Size	8.5mm
Field of View	50° x 35°
Speed	f / 1.0

## ELECTRONICS DESCRIPTION

### Sensor/Detector

Technology	Microbolometer
Sensor Array	160 x 120
Sensor Material	Amorphous Silicone
Spectral Response	8 – 14 $\mu$ m
Thermal Sensitivity	$\leq$ 100 mK
Operating Temperature	-20°C to 60°C
Update Rate	20 Hz
Saturation Temperature	480° F
Temperature Measurement	Digital °F or °C

### Power System

Source	NiMH Rechargeable
Battery:	
Output	7.2 Volts
Capacity	4.5 Ah
Duration	4+ Hours on full charge
Recharge Time	2 hours nominal
Indicator	LED System
Charging Systems	110V AC or 12V DC

### Display

Type	Liquid Crystal Display
Size	3.5" Diagonal

## ISI Family of Thermal Imaging Cameras



Surveyor



Navigator  
Digital



ISI 2500

# ISI

is also a manufacturer of quality respiratory protection equipment that is easy to use and saves critical time. For more information on ISI products and their time proven electronics contact ISI's customer service at 888-ISI-SAFE.

### International Safety Instruments

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