

Personal-Issue Thermal Imaging

Eclipse® is designed to equip each firefighter with thermal imaging technology. Shattering price barriers, Eclipse gives fire departments of all sizes the opportunity to bring thermal imaging to more firefighters. With Eclipse, no one is left in the dark.



AFFORDABLE Meets Advanced

Now available with high resolution imagery and a full array of advanced features, Eclipse is not only a navigational tool, but also an analytical workhorse. Compact enough to fit easily into turnout gear pockets and lightweight enough to clip to firefighter gear, Eclipse works like you work. Eclipse is the smallest and lightest handheld firefighting thermal imager on the market.

ECLIPSE 160

Eclipse now offers a 160 x 120 high resolution engine for enhanced versatility. With Eclipse 160, images are clearer, crisper, and more detailed. Available for both new purchases and aftermarket upgrades, Eclipse 160 supports your current and future thermal imaging needs.†

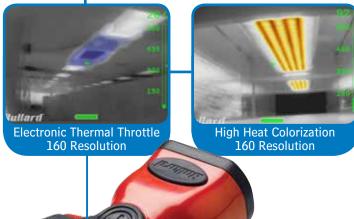
ADVANCED Features

Now available on Eclipse‡, Electronic Thermal Throttle® isolates heat sources enabling firefighters to optimize scenes with the touch of a button. Electronic Thermal Throttle saves you critical time and prevents costly mistakes. Other advanced features include High Heat Colorization, temperature measurement, and customized startup graphics.



All Eclipse Thermal Imagers ship with myBullard™, a personal control panel for you to register, inventory, maintain, service, and enhance your thermal imaging products and accessories. This easy-to-use software enhancement will help you organize and optimize your thermal imaging operations.





- † Upgrade requires factory service
- ‡ Advanced features are available in installed options or as field upgrades via myBullard™ software





e i p s e

Technical Specifications

Overall TI Unit

Weight with battery

Neight with battery

1.5 pounds

1.25 pounds

1.25 pounds

1.25 pounds

Height: 3.4" Length: 6.5" Width: 4"

Heat Test

500°F for 5 minutes

300°F for 13 minutes

Water Resistance

IP67

Impact/Drop Test

No functional damage, 6' drop

Casing

Shell Material Ultem® Thermoplastic
Sealing Silicone and Neoprene®
Display Cover Polycarbonate

Core/Detector

Туре Uncooled Microbolometer with Digital Processing, **Pixel Smoothing** Resolution **Eclipse** 80 x 60 array Eclipse 160 160 x 120 array Sensing Material Vanadium Oxide Spectral Response 7-14 Microns Thermal Stabilization 0°F to 175°F Update Rate 30 Hz **Temperature Sensitivity** < 0.075°C Video Output NTSC < 75mK NETD 1020°F Dynamic Range Pixel Pitch $30 \mu m$ Thermal Time Constant 11ms White-Hot Video Polarity

Lens

MaterialChalcogenideLens Size5mmField of View33°V x 45°HFocusFixed 3' to infinitySpeedf/1.25

Electrical System

Power Source NiMH Rechargeable Battery Output 2.4V nominal 1650 mAH Capacity Operating Time > 3 hours nominal Start Up Time < 4 seconds Desktop Charger 20 VDC Input Eclipse Powerhouse Charger 12-24 VDC Input 1,000,000 cycles Switch Cycle Test **Battery Weight** 0.25 pounds Recharge Time 2 hours nominal

Display

Type Digital, Liquid Crystal Display (LCD) Size 2.4" Diagonal TFT Active Matrix Dot Pitch 0.3mm x 0.1525mm **Dot Format** 160 x RGB x 234 Pixels 37,440 **Pixel Configuration** R-G-B Delta Configuration Back Light L.E.D. **Brightness** 250 cd/m2 Viewing Angle Left/Right = 50° , Up/Down = $35^{\circ}/15^{\circ}$



Temperature Measurement (optional)

High Heat Colorization (optional)

Accessories

Numeric and/or bar style

Color above 500°F (250°C)

Blue hot spot colorization

Eclipse Retract Strap Eclipse Battery Charger Base



Eclipse Powerhouse Charger





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