OUTSTANDING Performance
The Eclipse LDX uses infrared engine technology running at an ultra-fast 60 Hertz image update rate and incorporates Image Contrast Enhancement (ICE™) technology for the ultimate image performance in fire conditions. Housed in a compact, sleek design, the Eclipse LDX is available in 320 x 240 resolution to accommodate your budget.

BRIGHTEST LCD Display
The Eclipse LDX display greatly increases brightness and improves contrast, enabling firefighters to see more clearly in thick smoke and direct sunlight.

ADVANCED Features
Now standard on the Eclipse LDX is Super Red Hot colorization, highlighting high-heat scenes in brilliant shades of yellow, orange, and red and temperature measurement in numeric and relative heat indicator formats. Bullard’s exclusive Electronic Thermal Throttle®, which enables firefighters to optimize scenes with the touch of a button, is optional.

BEST Ergonomics
The Eclipse LDX is distinguishable from other thermal imagers with its uniquely focused compact ergonomic design specifically for the fire service and a cool, blue metallic swirl color. Multiple colors are also available. Additionally, the imager’s power button design enables easy powering on and off with a gloved hand.

FIVE YEAR Warranty
All X Factor Thermal Imagers come standard with a five-year, industry leading, full service warranty on parts and labor (excluding batteries).

ICE™ Image Processing
Equipped with ICE, the Eclipse LDX provides superior infrared imagery utilizing state-of-the-art image processing techniques. ICE technology sharpens the distinction between objects and backgrounds and optimizes the image for greater clarity. With ICE, firefighters can detect beyond the fire.

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## Technical Specifications

### Physical
- **Configuration**: Small Handheld Thermal Imager
- **Weight (w/ battery)**: 1.9 lbs. (DVR does not significantly increase weight)
- **Weight (w/o battery)**: 1.65 lbs.
- **Dimensions**
  - Height: 5.2", Length: 7.7", Width: 4.3"
- **Housing Material**: Ultem® Thermoplastic
- **Housing Colors**: Metallic Blue, Blue, Yellow, Lime-Yellow, Red, Orange, White, Black

### Electrical
- **Power Source**: NiMH Rechargeable Battery
- **Battery Capacity**: 1650 mAh
- **Battery Cycles**: > 800 @ 70% Capacity
- **Start-up Time**: < 4 Seconds
- **Operating Time**: 2 Hours*
- **Recharge Time**: 2 Hours

### Infrared Detector
- **Detector Type**: Microbolometer
- **Detector Sensing Material**: Vanadium Oxide
- **Detector Resolution**: 320 x 240
- **Spectral Response**: 7-14 Microns
- **Update Rate**: 60 Hz
- **NETD**: < 50 mK
- **Dynamic Range**: 1100° F
- **Pixel Pitch**: 17 µm
- **Video Polarity**: White-Hot

### Lens
- **Material**: Germanium
- **Field of View**: 31° V x 40° H
- **Focus**: 1 meter to infinity
- **Speed**: f/1.3

### Display
- **Type**: Digital, Liquid Crystal Display (LCD)
- **Size**: 3.5" Diagonal TFT Active Matrix
- **Pixel Format**: 500 cd/m² (minimum)
- **Contrast Ratio**: 350:1 (typical)
- **Viewing Angle (Typical)**
  - Top = 60°, Bottom = 40°, Left / Right = 60°

### Standard Features and Accessories
- **Temperature Measurement**: Numeric and Bar Style
- **Super Red Hot**: Color above 500°F

### Optional Features and Accessories
- **Electronic Thermal Throttle**: Manually activated Blue Hot Spot Colorization
- **SceneCatcher Digital Video Recorder**
  - Video Format: NTSC
  - Video File Type: AVI
  - Video Image Size: 720 x 480
  - Video Record Time: 5 hours
  - Connection: USB

### Performance
- **500° F Heat Resistance**: 5 minutes with no damage to electronics
- **300° F Heat Resistance**: 15 minutes of continued operation with no damage
- **-20° F Cold Resistance**: Continued operation
- **Water Resistance**: IP67
- **Impact Resistance**: 6 foot drops on concrete with no damage

* Without DVR operating

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### Accessories
- **Eclipse Retract Strap**
- **Eclipse Battery Charger Base**
- **Eclipse Powerhouse Charger**