

# eclipse™

**NOW with Higher Resolution Engine!**

## THERMAL IMAGING JUST GOT PERSONAL

A fully equipped crew means an advanced thermal imager in the lead, supported by an ECLIPSE™ in the hands of every firefighter. No one is left in the dark. Introducing the first low-cost, ultra-small form factor handheld thermal imager – built Bullard Tough™!

# Bullard extrem

### 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. Shattering price barriers, ECLIPSE™ gives firedepartments of all sizes the opportunity to bring thermal imaging to more firefighters.

### ECLIPSE 160

ECLIPSE™ now offers a 160x120 resolution or 80x60. With ECLIPSE 160, images are clearer, crisper and more detailed. Available for both new purchases and aftermarket upgrades, it supports your current and future thermal imaging needs.

### MODULAR SYSTEM

The advanced features can be ordered right away depending on the current needs and available budget or can be upgraded later!

- Temperature measurement numeric or bar style
- Super Red Hot Colorization: highlightning high-heat scenes in brilliant shades of YELLOW, ORANGE and RED
- Electronic Thermal Throttle®: hot spot colorization for better heat source isolation in shades of BLUE
- Customized start-up-graphic at no extra charge

**BUILD YOUR  
Bullard  
europe**  
[www.BuildYourBullard.com](http://www.BuildYourBullard.com)



ECLIPSE



ECLIPSE 160

ECLIPSE 160 with Electronic Thermal Throttle



TT11



ECLIPSE 160 with Super Red Hot Colorization

## myBullard - SOFTWARE SYSTEM

All ECLIPSE™ Thermal Imagers ship with a new myBullard Software, a personal control panel for you to register, inventory, maintain, service and enhance your thermal imaging products and accessories.

## BETTER UNDER FIRE.



[www.bullard.com](http://www.bullard.com)

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## Technical Data



### Weight

With battery:	0,680 kg
Without battery:	0,570 kg

### Dimensions

L x H x W	165 x 86 x 101 mm
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### Heat Test

150°C for 15 minutes
260°C for 5 minutes
1000°C short time

### Water Resistance

IP67

### Impact Test

No functional damage after 2 m drop

### Casing

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

### Core/Detector

Type:	Uncooled Microbolometer with Digital Processing
Sensing Material:	Amorphous Silicon (ASi)
Resolution:	80x60 <b>OR</b> 160x120 array
Update Rate:	30 Hz
Temperature Sensitivity:	0,075°C
Spectral Response:	7 - 14 microns
NETD:	75 mK
Dynamic Range:	550°C
Thermal Stabilization:	-20°C to 85°C
Pixel Pitch:	30 µm
Video Signal:	NTSC / PAL
Video Polarity:	White - Hot
Temp. Measurement (optional):	Sliding bar <b>AND/OR</b> numeric display
Super Red Hot Colorization (optional):	above 250°C
Electronic Thermal Throttle (optional):	Blue hot spot colorization

### Lens

Material:	Chalcogenide
Lens Size:	5 mm
Field of View:	45°H x 33°V
Focus:	Fixed / 1 m to infinity
Speed:	f/1,25

### Electrical System

Power Source:	NiMH rechargeable battery
Output:	2,4V
Capacity:	2350 mAh
Operating Time:	3 hours
Start Up Time:	4 seconds
Switch Cycle Test:	1.000.000 cycles
Battery Life:	1.000 charge cycles
Recharge Time:	2 hours
Charger Units:	available in 12V, 24V and 230V
Battery Weight:	0,110 kg

### Display

Type:	Digital Liquid-Crystal-Display (LCD)
Size:	2,4" diagonal TFT with "Active Matrix"
Pixels:	37.440
Pixel Configuration:	R-G-B DELTA
Back Light:	LED
Brightness:	250 cd/m2
Viewing Angle:	Left/Right = 50°, Up = 35°, Down = 15°

### Control Panel

Software:	CD-ROM including PC datacable
Compatibility:	MS Windows XP, VISTA and 7
Customization:	Display graphic
Training:	Interactive online sessions
Firmware:	Online updates and upgrades
Diagnostics:	Interactive troubleshooting system

### NOTE

ECLIPSE comes standard with 1 rechargeable battery, battery charger for 230V, instruction manual and myBullard-Software with online training access. The ECLIPSE is covered by a 24 month warranty on all parts and labor and a lifetime housing warranty.

## Accessories

ECLIPSE  
Retract Strap



ECLIPSE  
Charger Base



ECLIPSE Powerhouse™  
Truck-Mount Charger



**Americas:**  
E.D. Bullard Company  
1898 Safety Way  
Cynthiana, KY 41031-9303 • USA  
Tel: +1-859-234-6616  
Fax: +1-859-234-8987  
www.bullard.com

**Europe:**  
Bullard GmbH  
Lilienthalstrasse 12  
53424 Remagen • Germany  
Tel: +49-2642 999980  
Fax: +49-2642 9999829  
www.bullard.com

**Asia-Pacific:**  
Bullard Asia Pacific Pte. Ltd.  
LHK Building  
701, Sims Drive, #04-03 • Singapore 387383  
Tel: +65-6745-0556  
Fax: +65-6745-5176  
www.bullard.com

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