



Thermal Imaging
Technical Spec ENG

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FEM S.A.
Fire Equipment de México

to protect those who keep us safe

SEE THE CLARITY.



THERMAL IMAGERS



The Best Image Quality. Ever.

The T4X combines advanced features and the industry's largest widescreen display with the newest state-of-the-art infrared engine technology for the ultimate in thermal imaging performance.

OUTSTANDING Performance

The T4X 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. Loaded standard with advanced features in a 320 x 240 ultra-high resolution, the T4X gives fire departments everything needed in a high-performance thermal imager.

BRIGHTEST LCD Display

LCD display greatly increases brightness and improves contrast, enabling firefighters to see more clearly in thick smoke and direct sunlight. The 4.3" widescreen format is the largest in the market.

ADVANCED Features

The T4X is loaded standard with advanced features, including Bullard's exclusive Electronic Thermal Throttle®, which enables firefighters to optimize scenes with the touch of a button; Super Red Hot colorization that alerts firefighters to areas of intense heat; temperature measurement in numeric and relative heat indicator formats; and 2x and 4x digital zoom.

NEW Look & Feel

The T4X is distinguishable from other thermal imagers with a cool, blue metallic swirl color. Multiple colors are also available.

FIVE YEAR Warranty

All X Factor Thermal Imagers come standard with a five-year, industry-leading, full service warranty on parts and labor. Upgrade to the CareFree® warranty to get five years of coverage on batteries.

ICE™ Image Processing

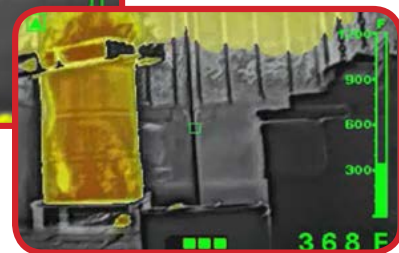
Equipped with ICE, the T4X provides superior infrared imagery utilizing state-of-the-art image processing techniques. ICE technology sharpens the distinction between objects and backgrounds and optimizes the image for greater clarity. With ICE, firefighters can detect beyond the fire.



X Factor Technology featuring Super Red Hot



Past



Present



Electronic Thermal Throttle®

Bullard TOUGH

www.bullard.com





Technical Specifications



Physical

• Configuration	Small Handheld Thermal Imager
• Weight (w/ battery)	3.25 lbs.
• Weight (w/o battery)	2.65 lbs.
• Dimensions	Height: 5.7", Length: 8.0", Width: 5.8"
• 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	> 4.5 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	< 30 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
• Cover Window	Germanium

Display

• Type	Digital, Liquid Crystal Display (LCD)
• Size	4.3" Diagonal TFT Active Matrix
• Pixel Format	RGB
• Brightness	600 cd/m2 (minimum)
• Contrast Ratio	400:1 (typical)
• Viewing Angle (Typical)	Top = 30°, Bottom = 50°, Left / Right = 70°

Standard Features

• Temperature Measurement	Numeric and/or Bar Style
• Super Red Hot	Color above 500°F
• Electronic Thermal Throttle	Manually activated Blue Hot Spot Colorization
• Digital Zoom	Manually activated 2X and 4X Zoom

Optional Accessories

• SceneCatcher Digital Video Recorder (via attachable handle)	
- Video Format	NTSC
- Video File Type	AVI
- Video Image Size	720 x 480
- Video Record Time	5 hours
- Connection	USB
• Transmitter (via attachable handle)	
- Channels	2 @ 2.4 GHz
- Signal Type	Analog
- Power Output	750 mW
- Range	600 feet through typical frame construction
• MobileLink Handheld Receiver	Receives transmitted videos
• TacPort (via attachable module)	Provides video out and power input from AC / DC sources

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 or transmitter operating

Accessories

Alkaline Pack



MobileLink Handheld Receiver



SceneCatcher & Transmitter



Powerhouse Charger



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