



Bullard, the leading manufacturer of thermal imagers for the fire service, sets the standard for high performing thermal imagers with the top of the line T4. This state-of-the-art thermal imager integrates an ultra-high resolution infrared engine, widescreen display, digital zoom, Super Red Hot™ colorization and Electronic Thermal Throttle® for maximum performance and jaw-dropping clarity. Extreme performance under high heat conditions meets extreme expectations.

# Bullard *extrem*

## HIGHER PERFORMANCE

- Ultra-High resolution 320 x 240 detector
- Super Red Hot colorization highlights heat conditions
- Electronic Thermal Throttle isolates heat sources

## WIDER VIEW

- Oversized, 4.3" widescreen, digital LCD display
- 16 x 9 aspect ratio
- 50° horizontal field of view
- 80° display viewing angle

## CLOSER TO THE ACTION

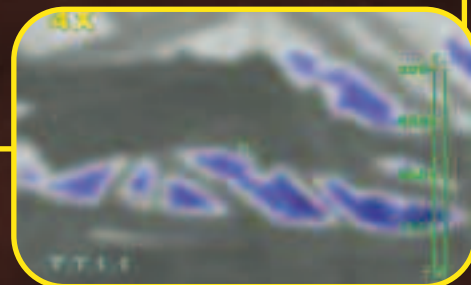
- 2x and 4x digital zoom
- Zoom in for hazardous materials, wildfire or search & rescue
- Works with Electronic Thermal Throttle and Super Red Hot

For more information visit:  
[www.bullardextrem.com](http://www.bullardextrem.com)

**BETTER UNDER FIRE.**



Normal View



4X Zoom





# Technical Data Bullard T4



## Overall TI Unit

Weight with battery:	1,7 kg
Weight with battery:	1,4 kg

## Dimensions

Height:	140mm
Length:	200mm
Width:	148mm

## Heat Test

260°C for 8 minutes
260°C for 8 minutes
1000°C short time

## Water Resistance

IP67

## Impact/Drop Test

2 m drop

## Casing

Shell Material:	Ultem® Thermoplastic
Sealing:	Silicone and Neoprene®
Strap Material:	Kevlar®
Lens Window:	Germanium (2 mm thick)
Display Cover:	Polycarbonate

## Core/Detector

Type:	Uncooled Microbolometer with Digital Processing, Pixel Smoothing
Sensing Material:	Amorphous Silicon
Resolution:	320 x 240 array
Spectral Response:	7.5 - 14 Microns
Update Rate:	30 Hz
NETD:	50 mK
Temperature Sensitivity:	0.05°C
Dynamic Range:	Nominal 600°C
Thermal Stabilization:	-20°C to 85°C
Pixel Pitch:	30 µm
Video Polarity:	White-Hot
Relative Heat Indicator: (temperature measurement)	Sliding Bar Scale
Super Red Hot:	Nominal 250°C

## Lens

Material:	Germanium
Lens Size:	5.8 mm
Field of View:	50.0°H x 32°V
Focus:	Fixed 3' to infinity
Speed:	f/1.0

## Electrical System

Power Source:	NiMH Rechargeable Battery or Alkaline Batteries (8 cells)
Operating Time:	>3 hours nominal
Capacity:	1600 mAH
Battery Life:	1,000 charge cycles
Switch Cycle Test:	1,000,000 cycles
Start Up Time:	<4 seconds
Charger Single Battery:	120 VAC-- or 12 VDC
Battery Weight:	0,3 kg
Recharge Time:	1 hour nominal

## Display

Type:	Digital, Liquid Crystal Display (LCD)
Size:	4.3" Diagonal TFT Active Matrix
Pixels:	130,560
Pixel Configuration:	Vertical Stripes
Back Light:	7 L.E.D.
Brightness:	165 cd/m2
Viewing Angle:	Left/Right = 80°, Up/Down = 80°

## Wireless Transmitter (optional)

Mounting:	Mounted in detachable handle
Signal:	Analog
Antenna:	Dipol
Frequency/Power Output:	According to European R&TTE Directive
Frequency Selection:	2 channel switch

## Digital Recording (optional)

Mounting:	Mounted in detachable handle
Download:	>300 photos AND 60 min video
Format:	Photo/JPEG Video/AVI
Download:	USB cable(included)

## Options

Battery case for standard Alkaline batteries, Powerhouse Charger for vehicle mounting(12 and 24 V), detachable handle, wireless transmitter and digital SceneCatcher in one handle, Mobile Link Receiver.

## NOTE

Comes standard with two batteries, AC/DC battery charger, carrying strap, training CD-ROM and instruction manual in a protective hard carrying case. The T4 has an anti-RFI coating and can be adapted to mount a handle, transmitter and digital scene catcher. The T4 is covered by a 24 month warranty on all parts and labor and a lifetime housing warranty.

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