

# Bullard<sup>®</sup> *extrem*

## BULLARD T4

### BRINGING THE HEAT

Bullard, the leading manufacturer of thermal imagers for the fire service, introduces the new 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 meets extreme expectations.

Providing a crystal clear image in the most demanding environments defines extreme performance.



#### 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

The T4 is built **Bullard extrem**

Call Bullard GmbH at: +49 (0)2642 | 9 99 98-0, E-mail: [info@bullard.de](mailto:info@bullard.de)  
or visit our distributor locator at [www.bullard.com](http://www.bullard.com)



Head Protection



Respiratory Protection



Fire and Rescue Safety



Thermal Imaging

## Technical Specifications Bullard T4

### Overall TI Unit

Weight with battery	1,7 kg (3,75 pounds)
Without battery	1,4 kg (3,05 pounds)
Dimensions	Height: 140 mm (7.9") Length: 200 mm (5.8") Width: 148 mm (5.5")
Heat Test	260°C (500°F) for 8 minutes 150°C (300°F) for 16 minutes 1000°C for short time
Water Resistance	IP67
Impact/Drop Test	No functional damage, 2m 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
Resolution	320 x 240 array
Sensing Material	Amorphous Silicon
Spectral Response	7.5 - 14 Microns
Thermal Stabilization	-20°C to 85°C
Update Rate	30 Hz
Temperature Sensitivity	0,05°C
Video Output	PAL/NTSC
NETD	50 mK
Dynamic Range Nominal	600°C
Pixel Pitch	30 µm
Thermal Time Constant	10 ms
Video Polarity	White-Hot
Relative Heat Indicator (temperature measurement)	Sliding Bar Scale
Super Red Hot Color above	Nominal 250°C

### Lens

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

### Electrical System

Power Source	NiMH Rechargeable Battery or Alkaline Batteries (8 cells)
Output	9.6V nominal
Capacity	1600 mAh
Operating Time	> 3 hours nominal
Start Up Time	< 4 seconds
Charger	Single Battery 230 VAC or 12 VDC
Switch Cycle Test	1,000,000 cycles
Battery Life	1,000 charge cycles
Battery Weight	0,3 kg (0.6 pounds)
Recharge Time	1 hour nominal

### Display

Type	Digital, Liquid Crystal Display (LCD)
Size	4,3" Diagonal TFT Active Matrix
Dot Pitch	188 mm (V) x 160 mm (H)
Dot Format	480 X 272 Dots
Pixels	130.560
Pixel Configuration	Vertical Stripes
Display Method	PAL/NTSC
Back Light	7 L.E.D.
Brightness	165 cd/m2
Viewing Angle	Left/Right = 80°, Up/Down = 80°

### Transmitter (Option)

Mounting	External
Signal Type	Analog
Antenna Type	Dipole
Power Supply	Internal
Frequency/Power Output	According to European R&TTE Directive

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

**Options:** Powerhouse (12 and 24 V), Tacport, Handle, Battery Case, Wireless Transmitter and Mobile Link Receiver.

**Bullard**  
1898 Safety Way  
Cynthiana, KY 41031-9303

Toll free: 877-BULLARD (285-5273)  
Phone: 859-234-6616  
Fax: 859-234-8987

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

**Bullard GmbH**  
Lilienthalstraße 12  
D-53424 Remagen

Phone: +49 (0)26 42 / 9 99 98-0  
Fax: +49 (0)26 42 / 9 99 98-29  
E-mail: [info@bullard.de](mailto:info@bullard.de)

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

# Bullard

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