



**NOW with T.O.P.  
Enhanced  
Engine!**

The new T4MAX™ thermal imager delivers unrivaled performance and image quality on the industry's largest, brightest viewing display. Equipped with Technology Optimization Package (T.O.P.) offering greatly enhanced engine and display performance integration, the T4MAX™ is the ultimate choice for fire fighting thermal imaging!

# Bullard *extrem*

## HIGH-END PERFORMANCE

- Technology Optimization Package (T.O.P.) optimizes display and engine performance
- Ultra-high resolution 320x240 detector
- Super Red Hot Colorization: highlighting 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

## WIDE VIDEO DISPLAY WITH VIVID IMAGERY

- Improved 4,3" widescreen format LCD with 450:1 contrast ratio
- 10 LEDs back light illumination for bright display viewing at heavy smoke conditions and outdoor applications

## CLOSER TO THE ACTION

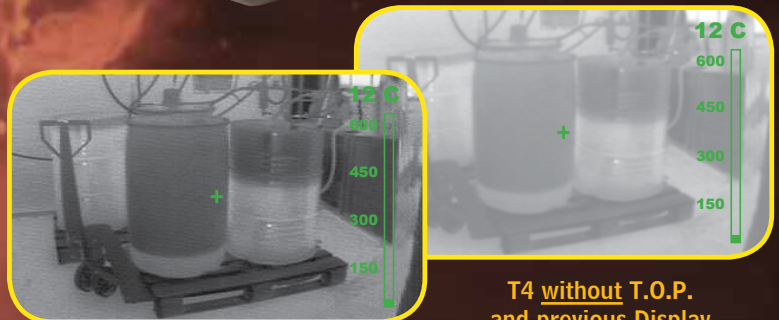
- 2x and 4x digital zoom
- Ideal for applications including hazardous materials, wildfire and search & rescue

ALL EXISTING T4 CAMERAS CAN BE UPGRADED TO A T4MAX STANDARD!

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



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



T4MAX with T.O.P. and new Display

T4 without T.O.P. and previous Display



**BETTER UNDER FIRE.**



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



# Technical Data



### Weight

With battery:	1,7 kg
Without battery:	1,4 kg

### Dimensions

L x H x W	200 x 148 x 140 mm
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### Heat Test

150°C for 16 minutes
260°C for 8 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
Strap Material:	Kevlar®
Lens Window:	Germanium (2 mm)

### Core/Detector

Type:	Uncooled Microbolometer with Digital Processing
Sensing Material:	Amorphous Silicon (aSi)
Resolution:	320x240 array
Update Rate:	30 Hz
Temperature Sensitivity:	0,05°C
Spectral Response:	7 - 14 microns
NETD:	50 mK
Dynamic Range:	600°C
Thermal Stabilization:	-20°C to 85°C
Pixel Pitch:	30 µm
Video Signal:	NTSC / PAL
Video Polarity:	White - Hot
Temp. Measurement:	Sliding bar <b>AND</b> numeric display
Super Red Hot Colorization (optional):	above 250°C
Electronic Thermal Throttle (optional):	Blue hot spot colorization

### Lense

Material:	Germanium
Lens Size:	5,8 mm
Field of View:	50°H x 32°V
Focus:	Fixed / 1 m to infinity
Speed:	f/1,0

### Electrical System

Power Source:	NiMH Rechargeable Battery <b>OR</b> AA-Batteries (8 cells)
Output:	10V
Capacity:	2300 mAh
Operating Time:	4 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:	0,3 kg

### Display

Type:	Digital Liquid-Crystal-Display (LCD)
Size:	4,3" diagonal TFT with "Active Matrix"
Pixels:	130.560
Pixel Configuration:	Vertical alignment (PVA)
Back Light:	10 LEDs
Brightness:	650 cd/m2
Viewing Angle:	Left/Right = 65°, Up = 50°, Down = 60°

### Wireless Transmitter (optional)

Mounting:	Detachable pistol grip
Signal:	Analog
Antenna:	Dipole
Frequency Selection:	2-channel switch
Frequency/Power Output:	According to European R&TTE Directives

### Digital Recorder (optional)

Mounting:	Detachable pistol grip
Capacity:	Min. 300 photos <b>AND</b> 5 hours video
Format:	Photo/JPEG, Video/AVI
Download:	USB-cable (inclusive)



### NOTE

T4MAX comes standard with 2 rechargeable batteries, battery charger for 230V, carrying strap, training CD-ROM and instruction manual in a protective carrying hard case. The T4MAX is covered by a 24 month warranty on all parts and labor and a lifetime housing warranty.

## Accessories

Battery case for standard alkaline batteries, Powerhouse charger for vehicle mounting (12V, 24V and 230V), AkkuCare intelligent charger base, detachable handle, wireless transmitter and digital SceneCatcher in one handle, MobileLink receiver, personalized start up graphic on display and side straps.

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