Maximum Image Quality & Performance

The new T4N thermal imager delivers unrivaled performance and image quality on the industry's largest, brightest viewing display. The T4N gives you the extra assurance of maximum durability and performance. With all of these benefits, the T4N is the ultimate choice for firefighting thermal imaging.

Features

- Class I, Division 2 rated for use in hazardous locations
- Two operational modes: BASIC and BASIC PLUS (for full feature performance)
- Intuitive and easy battery change

State-of-the-Art Performance

- **Technology Optimization Package (T.O.P.)** optimizes display and engine performance for unmatched scene dynamics and image clarity
- Ultra-High resolution 320 x 240 detector
- Super Red Hot colorization alerts firefighters to areas of intense heat
- Electronic Thermal Throttle® isolates heat sources
- More than 1100°F saturation temperature

Super Red Hot in BASIC PLUS Mode

Electronic Thermal Throttle in BASIC PLUS Mode

Wide Video Display with Vivid Imagery

- Extra-large 4.3" widescreen format Liquid Crystal Display
- Super-bright display enables viewing in thick smoke and direct sunlight
- 450:1 Contrast Ratio emphasizes deep blacks and bright whites and enhances image detail

Closer to the Action Viewing

- 2x and 4x digital zoom
- Improved visibility

T4N shown in BASIC PLUS Mode

Bullard TOUGH

Bullard®

Technical Specifications

Overall TI Unit

Weight with battery	3.9 pounds
Without battery	3.3 pounds
Dimensions	Height: 7.9" Length : 5.8" Width : 5.5"
Heat Test	500°F (260°C) for 8 minutes
	300°F (150°C) for 16 minutes
Water Resistance	IP67
Impact/Drop Test	No functional damage, 6' (2 M) drop
Hazardous Locations:	Class I, Division 2, Groups C or D

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	0ºF to 175ºF (-20ºC to 85ºC)
Update Rate	30 Hz
Temperature Sensitivity	0.05°C
Video Output	NTSC
NETD	50 mK
Dynamic Range	1100ºF (600ºC)
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 500ºF (250ºC)

Lens

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

Electrical System

Power Source	Rechargeable Battery
Output	9.6V nominal
Operating Time	>3 hours nominal
Start Up Time	<4 seconds
Desktop Charger	20 VDC Input
Powerhouse Charger	12-36 VDC Input
Switch Cycle Test	1,000,000 cycles
Battery Weight	0.6 pounds
Recharge Time	2.5 hours nominal

Display

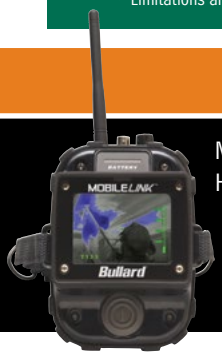
Type	Digital, Liquid Crystal Display (LCD)
Size	4.3" Diagonal TFT Active Matrix
Dot Pitch	0.198mm (H) x 0.198mm (V)
Dot Format	480 X 272 Dots
Pixels	130,560
Pixel Configuration	Vertical Stripes
Display Method	NTSC
Back Light	10 L.E.D.
Brightness	650 cd/m²
Display Contrast Ratio	450:1
Viewing Angle	Vertical = +50º/-60º
	Horizontal = +/- 65º

NOTE

Comes standard with two batteries, AC/DC battery charger, carrying strap, interactive training CD-ROM, and instruction manual in a protective cardboard carrying case. The T4N can be adapted to mount a handle, transmitter, or DVR. The T4N is covered by a 12-month warranty on all parts and labor and a lifetime housing warranty.

* Limitations and exclusions apply.

Accessories



MobileLink Handheld Receiver

Alkaline Pack

SceneCatcher & Transmitter

Powerhouse Charger

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ISO 9001 certified

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