



T4 Thermal Imager

Thermal Imager

Better under fire

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 meets extreme expectations.

Higher Performance

- > Ultra-High resolution 320 x 240 detector
- > Super Red Hot colorization highlights heat conditions
- > Electronic Thermal Throttle isolates heat sources
- > Over 1100°F saturation temperature
- > Oversized, 4.3" widescreen, digital LCD display
- > 16 x 9 aspect ratio
- > 50° horizontal field of view
- > 80° display viewing angle
- > 2x and 4x digital zoom
- > Zoom in for hazardous materials, wildfire or search & rescue
- > Works with Electronic Thermal Throttle and Super Red Hot



Overall TI Unit

Weight with battery	3.75 pounds (60 oz)
Without battery	3.15 pounds (49 oz)
Dimensions Height:	7.9" Length : 5.8" Width : 5.5"
Heat Test	500°F (260°C) for 8 mins 300°F (150°C) for 16 mins
Water Resistance	IP67
Impact/Drop Test	No functional damage, 2m drop

Casing

Shell Material	Ultem® Thermoplastic
Sealing	Silicone and Neoprene 4 pt
Strap Material	Kevlar 4 pt
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	0°F to 175°F (-20°C to 85°C)
Update Rate	30 Hz
Temperature Sensitivity	0.05°C
Video Output	NTSC

Technical Specifications (cont.)

Core/Detector (cont.)

NETD	50 mK
Dynamic Range	1 100°F (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 500°F (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 (8 cells)
Alkaline Batteries	
Output	9.6V nominal
Capacity	1600 mAH
Operating Time	>3 hours nominal
Start Up Time	<4 seconds
Charger Single Battery	120 VAC- or 12 VDC
Switch Cycle Test	1,000,000 cycles
Battery Life	1,000 charge cycles
Battery Weight	0.6 pounds (9.5 oz.)
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	NTSC
Back Light	7 L.E.D.
Brightness	165 cd/m2
Viewing Angle	Left/Right = 80°, Up/Down = 80



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