

T320

Better Under Fire.

T320 combines the “Back-to-Basics” single button operation with the high 320 x 240 resolution to offer excellent image clarity and reliability. The higher resolution provides crisp, clear images that are critical to every fire scene.

HIGH Performance

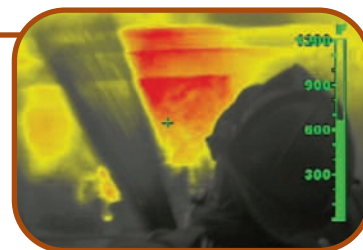
- Ultra-High resolution 320 x 240 detector
- Super Red Hot colorization highlights heat conditions
- Over 1100°F saturation temperature
- Relative Heat Indicator provides temperature measurement

SUPER Red Hot

With the Super Red Hot feature, heat levels are identified by colors. Starting at 500°F, heated objects are tinted yellow and gradually transition to solid red as heat levels rise. The Super Red Hot feature reveals specific heat layers alerting firefighters to areas of intense heat and more effectively identifies the spread of fire.

BULLARD Tough

With Bullard Tough Ultem thermoplastic construction and simple one button operation, the T320 is designed to be the most durable, easiest to use thermal imager on the market. Count on the T320 for top of the line imagery and reliability.



Super Red Hot



T320

Technical Specifications



Overall TI Unit

Weight with battery	2.7 pounds (43 oz)
Without battery	2.1 pounds (34 oz)
Dimensions	Height: 4 ³ / ₄ " Length : 4" Width : 7"
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

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	0°F to 175°F (-20°C to 85°C)
Update Rate	30 Hz
Temperature Sensitivity	0.07°C
Video Output	NTSC
NETD	70 mK
Dynamic Range	1100°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	37.5°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	10V nominal
Capacity	1600 mAH
Operating Time	2.5 hours nominal
Start Up Time	5 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	3.5" Diagonal (71.76 x 52.4 mm) TFT Active Matrix
Dot Pitch	188 mm (V) x 160 mm (H)
Dot Format	384 X 234 Dots
Pixels	89,856
Pixel Configuration	R-B-G Delta Configuration
Display Method	NTSC
Back Light	Fluorescent Lamp
Brightness	400 cd/m²
Viewing Angle	Left/Right = 60°, Up = 35°, Down = 60°

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 T320 has an anti-RFI coating and can be adapted to mount a handle or transmitter. The T320 is covered by a 12 month warranty on all parts and labor and a lifetime housing warranty.*

*Limitations and exclusions apply.

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