

# T320

**NOW with  
new, higher  
performance  
display!**

## Ultimate Versatility

The T320 offers the industry's highest resolution in a "Back to Basics" one button format or with Bullard's exclusive Electronic Thermal Throttle® feature. The higher resolution provides crisp, clear images, critical for analyzing complex fire scenes.



## EXTREME Performance

- Ultra-High Resolution 320 x 240 infrared engine
- Optional Electronic Thermal Throttle reveals hidden fire and distinguishes hotter objects
- Super Red Hot pinpoints fire source and progression
- Advanced Relative Heat Indicator provides temperature measurement

## ELECTRONIC Thermal Throttle

Use Electronic Thermal Throttle, optional on the T320, to isolate heat sources. This feature enables firefighters to optimize the scene with the touch of a button. By pinpointing hot spots during overhaul, identifying overheated electrical equipment and distinguishing hotter objects from cooler ones, Electronic Thermal Throttle saves you critical time and prevents costly mistakes.

## 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.



Super Red Hot



Electronic Thermal Throttle



**Bullard  
TOUGH**

 **Bullard®**

www.bullard.com

# T320

## Technical Specifications

### Overall TI Unit

Weight with battery  
Without battery  
Dimensions  
Heat Test

Water Resistance  
Impact/Drop Test

### Casing

Shell Material  
Sealing  
Strap Material  
Lens Window  
Display Cover

### Core/Detector

Type

Resolution  
Sensing Material  
Spectral Response  
Thermal Stabilization  
Update Rate  
Temperature Sensitivity  
Video Output  
NETD  
Dynamic Range  
Pixel Pitch  
Thermal Time Constant  
Video Polarity  
Relative Heat Indicator  
(temperature measurement)  
Super Red Hot

### With ETT

3.2 pounds  
2.6 pounds

### Standard

3.0 pounds  
2.4 pounds  
Height: 5 1/2" Length : 5" Width : 7"  
500°F (260°C) for 8 minutes  
300°F (150°C) for 16 minutes  
IP67  
No functional damage, 6' (2 M) drop

Ultem® Thermoplastic  
Silicone and Neoprene®  
Kevlar®  
Germanium (2 mm thick)  
Polycarbonate

Uncooled Microbolometer  
with Digital Processing,  
Pixel Smoothing  
320 x 240 array  
Amorphous Silicon  
7.5 - 14 Microns  
0°F to 175°F (-20°C to 85°C)  
30 Hz  
0.07°C  
NTSC  
70 mK  
1100°F (600°C)  
30 μm  
10 ms  
White-Hot  
Sliding Bar Scale

Color above 500°F (250°C)

### Lens

Material  
Lens Size  
Field of View  
Focus  
Speed

Germanium  
5.8 mm  
37.5°V x 50.0°H  
Fixed 3' to infinity  
f/1.0

### Electrical System

Power Source

NiMH Rechargeable Battery or  
Alkaline Batteries (8 cells)  
10V nominal  
1600 mAh  
2.5 hours nominal  
5 seconds  
20 VDC Input  
12-24 VDC Input  
1,000,000 cycles  
0.6 pounds  
1 hour nominal

Output

Capacity  
Operating Time  
Start Up Time  
Desktop Charger  
Powerhouse Charger  
Switch Cycle Test  
Battery Weight  
Recharge Time

### Display

Type

Size  
Dot Pitch  
Dot Format  
Pixels  
Pixel Configuration  
Display Method  
Back Light  
Brightness  
Viewing Angle

Digital Liquid Crystal Display (LCD)  
3.5" Diagonal TFT Active Matrix  
0.225 mm (V) x 0.2235 mm(H)  
320 X 234 X RGB  
74,880  
R-G-B Delta Configuration  
NTSC  
6-LED  
250 cd/m<sup>2</sup>  
Left/Right = 50°, Up = 15°,  
Down = 35°

### 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.

## Accessories



MobileLink  
Handheld Receiver



Alkaline Pack

SceneCatcher  
& Transmitter



Powerhouse Charger



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