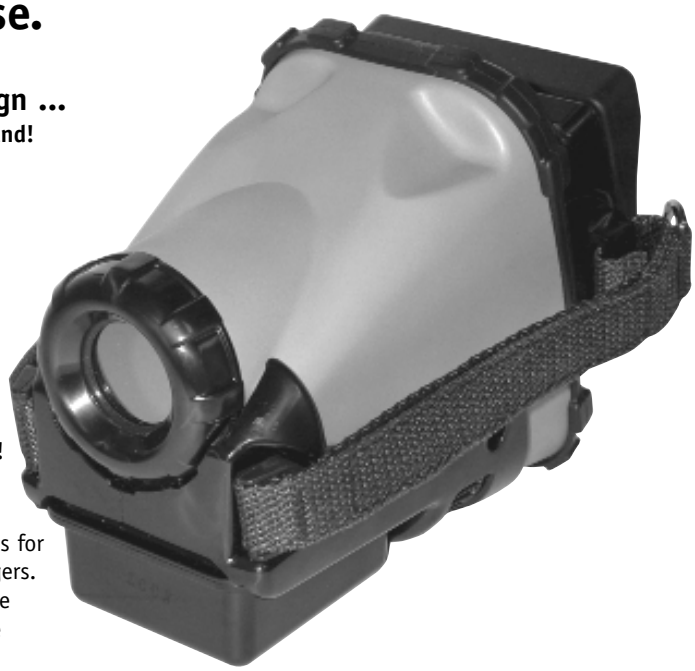
Bullard®
It's your life and you're worth it™

The RCN17™ Thermal Imager

The first personal issue thermal imager for surveillance use.

- **Revolutionary Small Design ...**
  Fits in the palm of your hand!
- **Ultra-Lightweight ...**
  Only 1.2 kg!
- **Simple and Functional ...**
  One button operation!
- **Unbelievably Tough ...**
  The toughest thermal imager available anywhere!

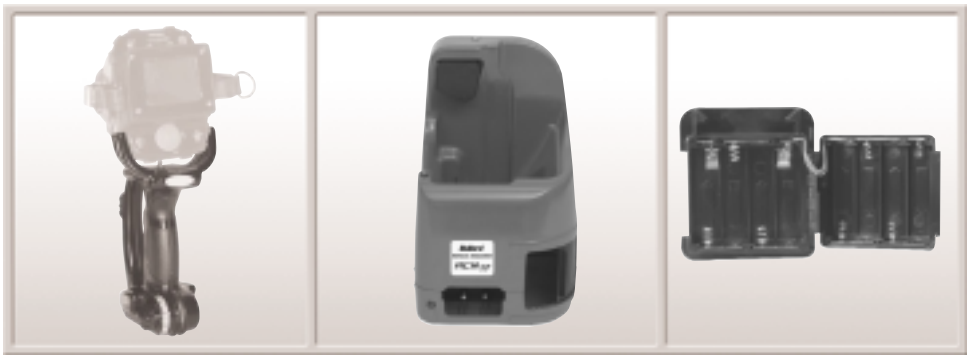


The Bullard RCN17™ sets new standards for surveillance and security thermal imagers. The sleek, compact design presents the RCN17 as the first rugged, easy to use thermal imager for surveillance and security. A push of the single large power button, and within five seconds, you're ready for action.

The RCN17 stands up to the toughest environmental torture tests. The watertight, high-heat rated thermoplastic shell is built to withstand 2 meter impacts on concrete. The RCN17 is backed by a 48 hour service turnaround guarantee. The days of delicate handling and frequent, seemingly endless service issues are over. You can count on the RCN17!

- **Identify people and objects in total darkness(unlike night vision)**
- **Man size recognition at 350 m**
- **Security & surveillance applications include:**
  - **Scene monitoring**
  - **Suspect detection**
  - **Suspect apprehension**
  - **Crime scene analysis**
  - **Force protection**
  - **Base/location security**
  - **Latent heat detection**

Available Accessories: Transmitter Handle, Charging Station, and Alkaline Battery Pack



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Overall TI Unit

Weight	With battery < 1.2 kg Without battery < 950 grams
Dimensions	Height : 120 mm Length : 100 mm Width : 178 mm
Heat Test	500°F (260°C) for 8 minutes 300°F (150°C) for 16 minutes
Water Resistance	IP67; 1 m at 30 minutes
Impact	No permanent functional damage, 1.5 meter drop

Casing

Shell Material	Ultem® Thermoplastic
Sealing	Silicone and Neoprene
Strap Material	Kevlar®
Display Cover	Polycarbonate (hardcoated)
Lens Cover	Germanium (2 mm thick)

Core/Detector

Type	Uncooled Microbolometer with Digital Processing, Pixel Smoothing, and no Thermal Electric Cooler
Resolution	160 x 120 array
Sensing Material	Amorphous Silicon (aSi)
Spectral Response	8 - 14 Microns
Thermal Stabilization	0 - 70°C
Update Rate	20 Hz
Temperature Sensitivity	0.05° C
Video Output	NTSC
NETD	<100 MK
Dynamic Range	<125°C nominal
Pixel Pitch	46.8 um
Thermal Time Constant	<21 MSEL

Lens (Standard)

Material	Germanium
Lens Size	25 mm
Field of View	12° x 17°
Focus	10 meter to infinity
Speed	f / 1.0

Lens (Alternative)

Material	Germanium
Lens Size	8.5 mm
Field of View	35° x 50°
Focus	1 meter to infinity
Speed	f / 1.0

Electrical System

Power Source	NiMH Rechargeable Battery or Alkaline Batteries (8 cells)
Output	10V Nominal
Capacity	1600 mA.hr
Operating Time	2.5 Hours Nominal
Start Up Time	5 Seconds Nominal
Charger Single Battery	120 VAC or 12 VDC
Switch Cycle Test	1,000,000 cycles
Battery Life	1,000 charge cycles
Battery Weight	270 g
Recharge Time	2 hours nominal

Display

Type	Liquid Crystal Display (LCD)
Size	71.5 x 51.2 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
Input Signal Level	1.0V P-P (Positive) 75 Ohm
Back Light	Fluorescent Lamp
Brightness	400 cd/m2
Viewing Angle	Left/Right=60°, Up=35°, Down=60°

Transmitter

Mounting	External
Signal Type	Analog NTSC
Antenna Type	Dipole
Transmitting Frequency	2.4 GHz
Power Output	300 mW
Power Supply	Internal
Power Consumption	3.5 W
Frequency Selection	4 Channel Switch 2.456, 2.463, 2.470, 2.477 GHz
FCC License	Part 90

ISO 9001
certified

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