



## COBRA – LASER TRIP WIRE



### DESCRIPTION

Cobra, a laser-based wireless network tripwire capable of detecting targets up to 420 yards, possesses a unique selective range gate feature allowing an operator to designate an active tripwire segment or ray. The Cobra unit is designed to operate continuously for extended periods of time as a primary tripwire. It includes a digital compass, for resolving magnetic heading, inclinometer, and scope mount to facilitate aiming. It also includes internal humidity and temperature sensors designed to protect the electronics from excessive moisture or temperature extremes. Cobra is part of Outpost Surveillance™ sensor product line.

### APPLICATIONS

Cobra is a laser tripwire designed for wireless networked remote unattended target detection.

#### SENSOR NODE APPLICATIONS

- Remote area surveillance
- Electronic security
- Perimeter surveillance
- Force protection sensor
- Facility/infrastructure surveillance

#### MARKET APPLICATIONS

- Border protection
- Port security
- Remote areas and ranges
- Sensitive infrastructure and buffer zones
- Intelligence and defense
- Riverine

### KEY FEATURES & BENEFITS

- Low power, long range IR laser-based tripwire
- Battery powered (>30 days on 2 BB5590's)
- Innovative CME "Selective Range Gate" up to 420 yards
- Inclination
- Wired or Wireless Sensor Network
- Built in high power alignment scope mount
- Built in solid state compass
- Microprocessor controlled
- Tripod mount
- Custom battery mount with cable assembly
- Interface Control Document

## SPECIFICATIONS

### LASER RANGE FINDER

ACCURACY	+/- 1 m on 1x1 m <sup>2</sup> diffuse target with 50 percent (+/- 20 percent) reflectivity Accuracy enhanced using moving average algorithm averaging n readings (~1/* n)
RESOLUTION	0.2m
LASER	Class 1 (eye safe); 905 nm +/- 10 nm
POWER	12 to 18 VDC
POWER CONSUMPTION	Customized power modulation and low power design
RANGE	420 yards
DIMENSIONS	9 in x 5 in prism shaped enclosure
WEIGHT	5 pounds
ENCLOSURE	Rugged machined construction with UV protection

### RADIO

TRANSMIT POWER	1 mW – 1 W
OUTDOOR RANGE	Line of site
INTERFACE	Standard serial
FREQUENCY	902 – 928 MHz
WEIGHT	15 ounces
OPERATING TEMPERATURE	- 40 to +85 deg C
COMPLIANCE	FCC Part 15.247
MODULATION PROTOCOL	Frequency hopping spread spectrum 10 Hopping channels each with over 216 unique network addresses available
SECURITY	256-bit AES encryption. 128-bit AES for international variant

