



SHOT TRACER® IRD

PERSONNEL MONITORING AND ALERTING UNIT

**GUNSHOT DETECTION
AND ALERTING
TECHNOLOGY**

**GPS/GLONASS LOCATION
WHEN EVENT OCCURS**

**AUTOMATIC REPORTING
WHEN GUNSHOT
DETECTED**

**IRIDIUM SATELLITE
AND/OR CELLULAR
REPORTING**



Officer John Jones is making a standard traffic stop after clocking the motorist doing 120 kph in a 90 kph zone. After reporting in with the dispatch Officer Jones takes caution as he approaches the vehicle. Officer Jones sees a firearm near the driver. Before he can call for help, a flash occurs and a moment of peace before everything goes dark . . .

The situation happened so quickly that no one at dispatch knows of any problems, and Officer Jones' life is now in jeopardy unless someone helps him, but no one knows of the life threatening event. Unless . . . Office Jones is wearing a Shot Tracer® gunshot monitoring unit. Milliseconds after the gun discharges Shot Tracer® transmits a message to dispatch alerting them to a detected event and providing a GPS position. Moments later, Shot Tracer® detects that Officer Jones is now stationary and no further movement is detected and automatically transmits an accelerated alert to dispatch. Dispatch tries in vain to contact Office Jones and help is dispatched.

In this instance, the quick response of the Shot Tracer® gunshot detection system and the quick action of the responders Office Jones wakes up in recovery, his life spared thanks to a little pager-sized module that knew that something was wrong before he did.



link
communications®

Contact Information:

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Specifications

Connections:

- **Charging and Data Collection Port:** USB port contacts on the bottom of the unit. Data uploading and downloading requires a Windows based computer and data connection cable.
- **Antenna1 :** External antenna for the Penta band cellular antenna
- **Antenna 2:** Maxtena Iridium satellite antenna when this option is installed
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- **Buttons:**
- - EMG button used to manually send an alert message or indicate a man-down alert

Sensors:

- **Microphone:** Dual microphone sensing to enable better acoustic event detection.
- **Accelerometer:** Three axis sensor used to monitor your movement and is used after the primary event happens. A no-movement for a timed period alert mode is provided to automatically send a alert.
- **Acoustic Detection:** This sensor detects very loud events, above +130dB, such as gunshots, explosions and very loud events.
- **Tracking:** Location tracking available with a minimum of 10 second updates when operating over cellular. Satellite updating is limited to a minimum of 30 second updating.

Display:

- 128x64 pixel transfective paperwhite LCD display. The LCD will provide visual feedback and the backlight will light only when the user presses a button.

Alerting:

- Once an alert is sent over cellular or satellite, Shot Tracer servers will send messages to the following
- Web based monitoring on the users private account
- SMS message sent to a list of users that are set-up from the users private account
- Email notification of the alert to a list of addresses
- Directed alert to a specific Internet address
- Custom configuration specific to the customers needs (additional charge may apply)

Power and Enclosure:

- **Power:** +3.6V DC, 2000mA/hr battery
- **Operation Life:** 48 hours minimum operation between charges
- **Data Transfer Methods:**
- GSM/HSPA+ Direct data push to the Tracer Technology global server secure web site
- Iridium Short Burst Data (SBD) satellite message transfer
- **Temperature:** 40°C ~ 80°C (-40°C ~ +175°F), 95% Relative Humidity
- **Enclosure:** All Metal Design ensuring rugged and reliable operation in moist/sandy environments
- **Size:** 3.8" (97mm) H x 1.95" (50mm) W x 1.2" (30mm) D, Weight: 0.25lb (113g)

Subscriptions:

- Cellular only use: \$100/year per device
- Iridium Satellite: \$35/month plus addition data if excessive messages sent

Module Cost:

- Cellular Radio model: \$399.95/each
- Iridium Satellite Version: \$749.95/each
- Other versions are available, contact Link Communications, Inc. for additional information

Link Communications, Inc. licenses Shot Tracer® IRM from Tracer Technology Systems, Inc.