

# **ReliAlert™ Participant's Operation Guide**

## **SecureAlert, Inc.**

**Version 1.3.1**

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**Referenced To:**

**OTD Hardware Release 3.8**



## 1 Overview

This document describes the major features associated with the OTD Device Hardware and how to operate them. The operator may need to consult associated system documentation for additional detail.

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## 2 Personal Safety and Health

### Responsibilities of Administrating Agencies

**The ReliAlert™ device meets the government's requirements for exposure to radio waves.**

It is the direct and sole responsibility of all agencies (government or private) that oversee use of ReliAlert™ to assure, and formally document, that wearers of ReliAlert™ devices understand the safety and health topics below.

It is also the direct and sole responsibility of such parties to assess special individual needs in order to protect the health and well being of those wearing ReliAlert™ devices. This includes identifying any special environmental or personal health needs specific to an individual wearer of the device.

#### **2.1 Personal Hygiene**

**Simple hygiene measures can avoid discomfort and skin irritations.**

The ReliAlert™ is designed to be worn over a standard sock. This aids in maintaining sanitary conditions. Not wearing over a sock or not changing socks on a daily basis may result in skin irritations or other health concerns. The same applies for

For additional comfort the wearer of a ReliAlert™ may elect to wear a thick wrist sweat band just below the main body of the ReliAlert™. Such a band may be purchased from most any sports store. Typically the band would be worn just above the ankle bone but may also be used to elevate the ReliAlert™ to accommodate for special foot wear like work boots.

#### **2.2 Specific Absorption Rate Data**

**The ReliAlert™ device meets the government's requirements for exposure to radio waves.**

Your tracking device is a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government and by the Canadian regulatory authorities. These limits are part of

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comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age or health.

The exposure standard for cellular communication devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC and by the Canadian regulatory authorities is 1.6 W/kg. The tests for SAR have been conducted based on the standard operating position (on the ankle) the tracking device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating is usually well below the maximum value. This is because the cellular device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station, the lower the power output.

Before a cellular device is available for sale to the public in the U.S. and Canada, it must be tested and certified to the FCC and Industry Canada that it does not exceed the limit established by each government for safe exposure.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Web Site:

<http://www.phonefacts.net>

or the Canadian Wireless Telecommunications Association (CWTA) Web Site:

<http://www.cwta.ca>

## **2.3 Safety and General Information**

### **Exposure To Radio Frequency (RF) Energy**

Your ReliAlert™ device contains a transmitter and receiver. When it is ON, it receives and transmits RF energy. When communicating with this device, the service network handling your call controls the power level at which your device transmits.

Your ReliAlert device is designed to comply with local regulatory requirements in your country concerning exposure of human beings to RF energy.

### **RF Energy Interference/Compatibility**

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Nearly every electronic device is subject to RF energy interference from external sources if inadequately shielded, designed, or otherwise configured for RF energy compatibility. In some circumstances your mobile device may cause interference with other devices.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **FCC RF Radiation Exposure**

For body worn operation, this cellular device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the device at a minimum of 0 cm from the body.

Maximum SAR value is 0.770. For full details please refer to SAR lab report page-6.

### **Potentially Explosive Atmospheres**

Areas with potentially explosive atmospheres are often but not always posted, and can include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, or areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

When you are required to be in such an area, immediately contact your Supervision Officer or the ReliAlert™ Monitoring Center before entering such areas. Do not remove, install, or charge batteries...sparks can occur and cause an explosion or fire. Any regular proximity to such areas must be reported to and thoroughly discussed with your Supervision Officer and, if job related, your employer.

### **Battery Charger**

The charger should not be operated in the immediate proximity of water. Doing so may result in electrical short and equipment damage

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## 3 Features & Limitations

The section describes the features and limitations of this release of the Offender Tracking Device (OTD) units.

### 3.1 GPS Locations

The unit intermittently monitors its location using the Global Positioning System (GPS) network. It can be expected to acquire and maintain a valid fix whenever it is in direct line of sight of a minimum of three to four GPS satellites with sufficient signal strength. Various environmental factors may interfere with a location fix, which may result in position error or the inability to acquire a valid position.

### 3.2 Voice Calls

The unit places and receives voice calls over the GSM (Global System for Mobile communication) cellular network, operating as a type of speaker phone using a built-in microphone and loudspeaker. Outgoing voice calls are to predefined phone numbers, and incoming voice calls are from any landline or cellular telephone. The same service limitations which one experiences with standard cell phones will also be experienced with these units.

### 3.3 Data Transmission

The unit transmits and receives information to and from a specified server on the Internet by way of the GSM network, using GPRS (General Packet Radio Service). This information includes unsolicited messages from the OTD, such as GPS location records and alarm notifications, as well as configuration data and remote alert commands sent to the OTD from the server.

GPRS cannot operate simultaneously with a voice call. Therefore, SMS is used for the transmission of all traffic between the unit and gateway when a voice call is in progress.

The unit is commissioned with a particular SIM (Subscriber Identity Module) card and on a particular cellular provider's network/sub-network. Neither the use of an alternate SIM card nor roaming to a different cellular network/sub-network are supported at this time.

### 3.4 Remote Alert Commands

The unit can be remotely commanded to issue both an audible alert event and a vibration alert event.

### 3.5 User Interface

The unit can communicate in a variety of information and modes to the wearer through the speaker, the vibration motor, and an LED indicator light.

### 3.6

The device is only allowed to be installed on the ankle. It is not allowed to be installed on wrist or arm.