Smart Beacon v2.2 User Manual

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DOCUMENT HISTORY

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1.0	28-06-2023	B Buike	First Release

REFERENCED DOCUMENTS

Ref.	Document Name	Version	Date

CONTENTS

1. Introduction

This document is intended to be the source reference material for using the Smart Beacon v2.2 product, with the exception of electronic configuration (including set-up and interaction with the on-line monitoring portal). The emphasis here is upon describing the physical features, correct installation and removal etc.

2. Equipment Description

The Smart Beacon v2.2 is a multi-function RF Beacon to be used in conjunction with the Smart Tag device as an optional accessory. In addition to providing an intelligent link to the Smart Tag, the unit also provides a method of direct communication with the subject via text messages to the display, or two-way voice communication which can be initiated in either direction. The call function can be configured to allow the subject to call one or more pre-defined numbers, such as the monitoring centre, or an SOS number such as '999'.

3. Smart Beacon v2.2 Installation

The Smart Beacon v2.2 is designed to sit discreetly in any domestic setting, with no permanent fixing necessary it should sit securely on any table, work surface or floor.

The Smart Beacon v2.2 will require permanent connection to a mains power supply, however battery back-up is provided in the event of mains power failure. When the unit is plugged into a mains power supply the display will not show a symbol of a plug. When the power is removed a symbol of a plug will appear on the display.

The Smart Beacon V2.2 should not be installed this equipment in a place where it will be exposed to high temperatures, such as near an open flame or heat-emitting equipment.

To avoid interference to nearby appliances, do not place the Smart Beacon V2.2 on or near a TV, microwave oven, or VCR. If this Smart Beacon V2.2 does cause harmful interference to radio or television reception.

4. Smart Beacon v2.2 Operation

The Smart Beacon v2.2 communicates over 2G/3G/4G to a server-based monitoring platform, which interprets the data provided to populate a web portal user interface. The data sets include the following:

- Event Time.
- GPS Location (Intervals can be defined, or a real-time request made).
- Speed of Motion.
- Battery Level.
- Mains Power On / Off.
- Signal Strength.
- Case Tampering.
- Alerts (Based upon one or more of the above).

The Smart Beacon v2.2 LCD will display the time as default, but will also display text messages sent to the subject by the monitoring centre. The integrated speaker and microphone provide for two-way voice communications, which are controlled by the two buttons on the top of the device.

When in proximity to a Smart Tag, the Smart Tag will not attempt to achieve new GPS fixes, resulting in significantly less demand on the Smart Tag battery power.

The Smart Beacon v2.2 and Smart Tag together can be configured to provide a curfew monitoring system, with GPS back-up when required, resulting in much improved battery life for the Smart Tag.

5. Sanitization and Re-Use

5.1. Smart Beacon v2.2

5.1.1. **Collection**

When collecting a Smart Beacon v2.2 from a subject protective gloves should be worn.

- Note any obvious sign of damage.
- Return the Smart Beacon v2.2 to the vehicle for inspection and cleaning.

5.1.2. **Inspection**

The Smart Beacon v2.2 should be inspected for signs of damage, units with damage should be dealt with in accordance with local protocols. Damage includes any significant

surface marking which may be indicative of the unit being exposed to high impacts or tampering. Areas that require special attention are;

- The LCD display.
- Seams between casing elements.
- Surfaces surrounding buttons.
- Check the buttons still function, including the backlight.
- The condition of the 3 security labels on the bottom surface.
- The power cable.
- The bottom surface of the unit, around where the power cable enters.

5.1.3. **Cleaning**

If there is any heavy soiling or biological matter on the unit that is unlikely to be easily removed by a sanitising wipe, then the unit should be cleaned thoroughly in line with local protocol. It should be noted that the Smart Beacon v2.2 is only a splash proof product and therefore it is important not to fully immerse the unit in any liquid.
To sanitise a Smart Beacon v2.2 in the field the following process should be followed;

- Wear gloves.
- Rub the unit vigorously with an approved sanitising wipe, ensuring all surfaces receive a good covering of alcohol.
- Allow to dry in a well-ventilated area.

The unit can then be returned to stock for re-use.

6. FCC warning statement

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

7. ISED Statement

This device complies with ISED's licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment for portable use. End users must follow the specific operating instructions for satisfying RF exposure compliance. No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

Ce dispositif est conforme à la norme RSS exemptée de licence de l'ISED. L'opération est soumise aux deux conditions suivantes : (1) ce dispositif peut ne pas causer d'interférence, et (2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer le fonctionnement indésirable de l'appareil.

Cet équipement est conforme aux limites d'exposition au rayonnement d'ISDE établies pour un environnement non contrôlé à usage portable. Les utilisateurs finaux doivent suivre les instructions d'utilisation spécifiques pour satisfaire à la conformité à l'exposition aux RF. Aucune modification ne doit être apportée à l'équipement sans l'autorisation du fabricant, car cela pourrait annuler l'autorisation de l'utilisateur d'utiliser l'équipement.