SATELLITE TRACKING OF PEOPLE LLC (STOP)

Operational Description of BluBand™

BluBand™

The Bluband™ is an RF device housed within a small body worn case. It is normally worn round the ankle and attached with a strap and two clips. It is powered by an internal 3.6V lithium wafer cell battery that is designed to operate in excess of a year. The cell is not rechargeable.

The normal function of a BluBand™ unit is to confirm its presence to a BluHome™ using RF transmissions at random intervals on an approved frequency for the country of operation. A typical use for the product will be to confirm the presence of a person wearing a BluBand™ within the confines of their home. Using a received signal strength indicator (RSSI) and unique ID from the BluBand™ device the BluHome™ can confirm the presence and its approximate distance. BluHome™ is an existing product FCC No. S5EBH0107A

The BluBand™ using a transceiver transmits RF pings to a BluHome™ and in response to the ping received back from the BluHome™, the BluBand™ will behave in accordance with its configured set-up.

The BluBand™ transmits a unique I.D. as well as any prevailing alarm conditions such as tamper status and low battery.

Main Components

Main Processor	The main processor is a low power microchip enhanced flash type.
RF Transceiver	The Micrel RF505 transceiver is optimized for use in the ISM 903-928 US frequency band.
RF Antenna	A 915Mhz PCB mounted antenna.
Battery	A 3.6V 1Ah Lithium wafer Cell type non-rechargeable
Tamper Detect	A high sensitivity photodiode and amplifier circuitry together with an infrared emitter is used to detect ambient light levels and signals from the tamper transmit circuitry.