

i-LOC

Security Management System

i-LOC uses low-power beacons strategically placed within a building or area, so that when the user of the handportable passes, the beacon automatically transmits it's identity to a receiver fitted inside the ICOM radio. This information, including all other radio traffic is then logged and stored on a central database, providing a powerful management tool for any security-conscious organisation.

- This integrated Security Management system provides the benefits of radio communication and computer reporting using digital or analogue radio.
- In digital mode, i-READ incorporates the latest digital 6.25K technology giving the user double the number of channels normally found on an analogue system. Digitally-modulated, clear-voice and secure conversation are other beneficial features.
- A powerful and compatible tool for management control, providing a detailed view of staff deployment and resources.
- Incorporates many Health & Safety functions such as Mandown, Lone-worker and panic alarms.
- Voice record facility available.
- Monitor and communicate with your staff remotely via IP.
- Alert staff of security issues without the risk of being overheard. Use text messages to circulate security information such as descriptions of know offenders.
- The system enables a portable radio user to transmit pre-set status messages.
- Easy installation, avoids the need for costly cabling.
- Incorporates text and status messaging to reduce voice traffic on busy radio channels.



System Overview

Security management features

i-LOC offers the ability to locate staff in buildings and areas where GPS tracking is not possible. Using a series of automatic location beacons, the handportable radios will automatically send their position back to a central PC. The system uses either an ICOM analogue or digital commercial handportable, giving the user the added benefit of text, status and voice communication as well as tracking.

Digital operation available

When the IC-F3162 (VHF) or IC-F4162 (UHF) digital commercial handportables are used, i-LOC provides; 6.25kHz channel spacing and spectrum efficiency to save you money. Digital mode doubles the channel capacity of 12.5kHz narrow band technology, meaning that users will have twice the capacity. Digitally-modulated, clear-voice and secure conversation are other beneficial features.

A tool for management control

A major strength of i-LOC is its reporting features. All radio traffic, including voice records, is logged and stored on a central database. This is ideal for management control and future resource planning.

Aids health & safety management requirements

i-LOC satisfies the growing health and safety and management demands faced by organisations today. It provides a range of emergency alert functions with the use of Mandown, Loneworker and panic button features. It also provides extensive records/reports on all radio traffic should an organisation need it.

Provides a detailed view of staff deployment and resources

When used in conjunction with other modern security systems and in particular closed circuit TV, i-LOC provides a detailed view of activity and staff deployment in an area. The system is designed to be fully interactive ensuring dispatchers/supervisors are able to monitor and respond rapidly to situations as they occur.

Emergency features

If an i-LOC radio is placed in emergency mode (either via Mandown, Loneworker or Panic button), it transmits its position to the Server. The Server can then automatically send a text message to all other radios stating the name and position of the radio that is in the emergency mode.

i-LOC uses either an ICOM analogue or digital commercial handportable that gives you full status and text messaging and lone worker function not previously available on previous versions of this product. It also has Panic/Mandown alarms in addition to location traffic. Integration of the scanner into the radio leaves the accessory socket free on the outside for other functionality.

Easy installation

The i-LOC beacon is powered by lithium batteries (3V). The case of each beacon is compact, robust and waterproof (IP-67) thus allowing for easy installation indoors or out.

Minimal installation cost, avoid costly cabling

Thanks to the independent power supply of the beacons and stand-alone operation, you can avoid the cost of cabling often needed for other security systems.

Active beacons technology

i-LOC beacons use the latest technology incorporating RISC microprocessors with very low consumption and a new ISM band at 868 MHz (licence exempt) for minimum interference of transmissions. The emission power of the beacon is approximately 10-mW peak, which gives a range of 20 metres indoors and more than 100 metres outdoors (adjustable). If the beacons transmit every 30 seconds, the typical consumption is 150µW (50µA at 3V). This could be further reduced by increasing the interval between transmissions if the configuration of the location allows. With a transmission interval of 30 seconds, the battery version beacons have a working duration of up to 5 years.

Secure system

Automatic indication when battery needs replacement. In order to simplify the maintenance of the batteries and to secure the system, information is automatically sent when the battery in a beacon needs to be changed. This information is contained in the message that the beacon will relay through portable radios that pass in their proximity to be sent to the base. Also, each beacon is unique and cannot be duplicated, thus assuring complete security for the system.

Authorised dealer:

Custom programming

The time between emissions from the beacons is easily programmable values of 4, 7, 15, 30, 60, 120, 180, 300 seconds are available. A CRC added to the identity avoids false receptions.

i-LOC and RMS-Net are exclusive ICOM UK LTD products.

If you would like further information about the i-LOC system, please contact us.

ICOM-UK

Blacksole House, Altira Park, Herne Bay, Kent CT6 6GZ. UK.

Tel: +44 (0)1227 741741. Fax: +44 (0)1227 741742. e-mail: systems@icomuk.co.uk website: www.icomuk.co.uk



i-LOC uses strategically placed low-power beacons that automatically transmit their identity to the handportable radio.



Typical base-station set-up.



i-LOC beacon

i-LOC system equipment:

- One or more ICOM handportable transceivers, fitted with an i-LOC internal receiver unit.
- One or more i-LOC beacons. (quantity depends on the number of zones to be covered).
- RMS-Net software suite.

