



SECUR*alert*™

Creating Safer Environments

History

Nordicom Inc. has been serving the following verticals for **27 years**:

- ✓ Hotels
- ✓ Hospitals
- ✓ Correctional Facilities
- ✓ Education

More than 92% of first generation SECURalert solutions are still in function today, 20 years later.

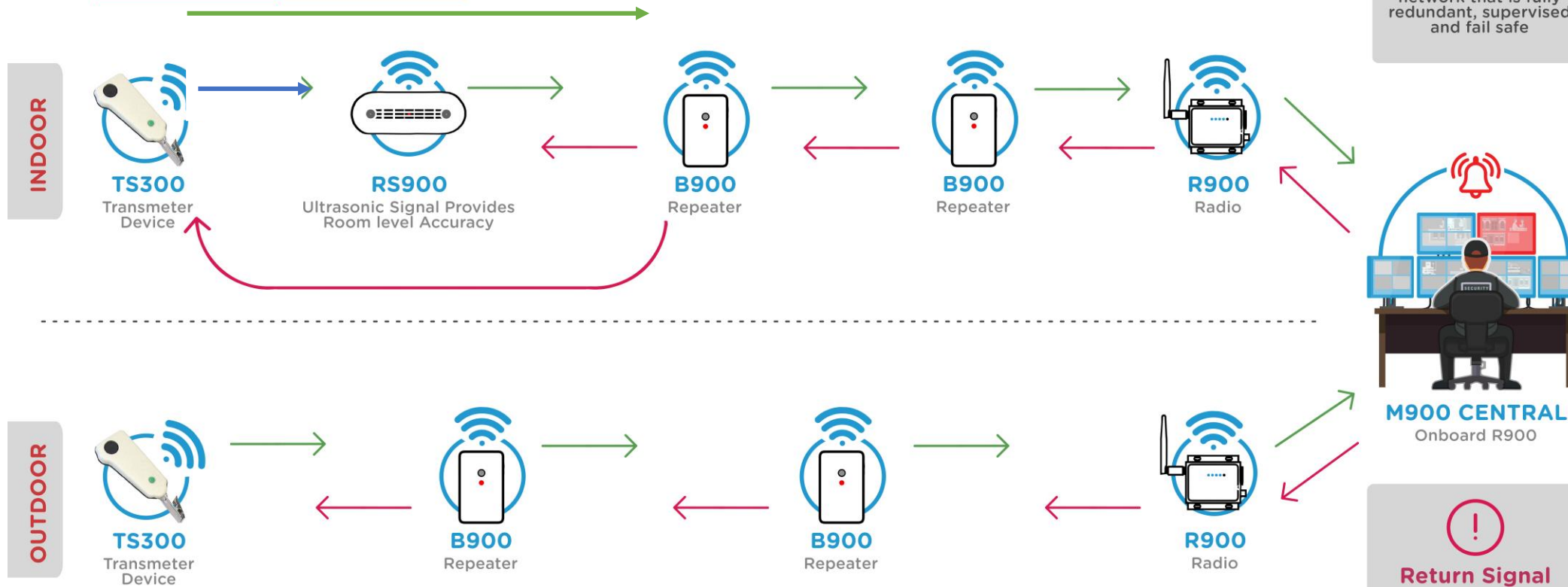


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SECURalert™ NETWORK DIAGRAM



Radios and repeaters are deployed to create a bi-directional mesh network that is fully redundant, supervised and fail safe



Return Signal

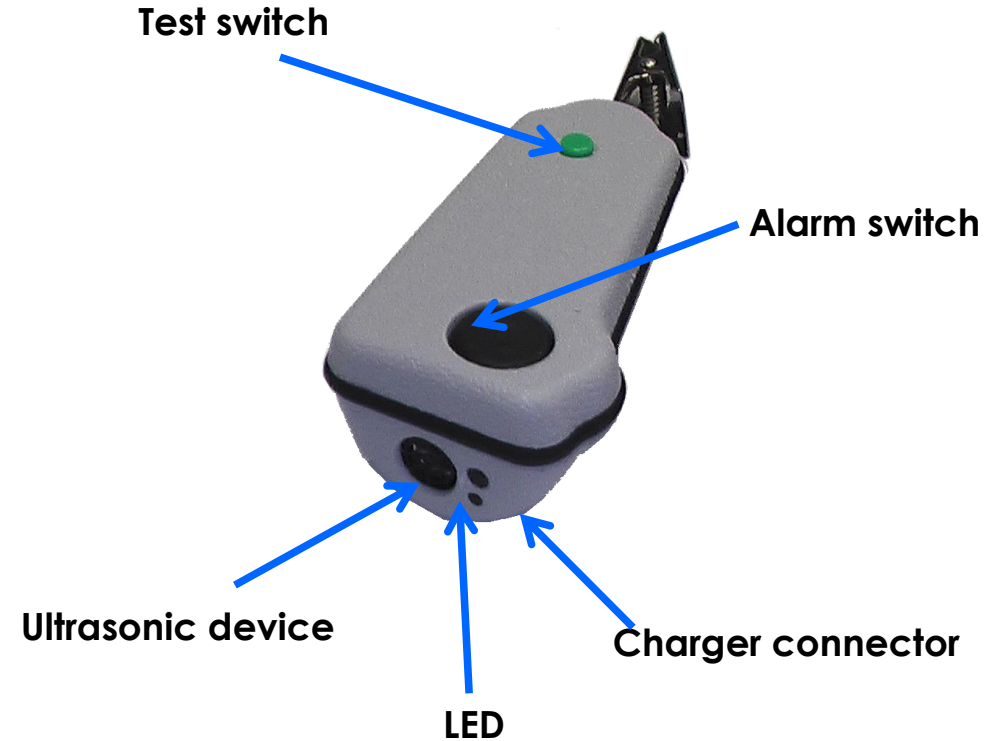
is used for supervision, positive acknowledgment of alarms received and cancellations of events.

SECURalert™

Stage 1 - Wireless Transmitter



- Heavy-Duty
- Ultrasonic sensor supervised *
- Full bi-directional communication
- Cannot be activated by mistake
- Clips to belt, pockets, clothing
- Single-hand operation
- Vibrates for positive feedback
- Operation customizable *
- Rechargeable (avg. 4 weeks per charge) TS300
- Battery operated also available TS400
- Restricted zone or exit perimeter alerts
- Fall down detection



Fixed Transmitters

- Various types/colours available
- Can be wall or desk mounted
- With or without local confirmation LED
- Supervised
- Fixed transmitter can combine a local ultrasonic receiver, thus can be activated directly or remotely by any portable transmitter



Radio Frequency

Available in SECURalert RF Only and Hybrid Systems

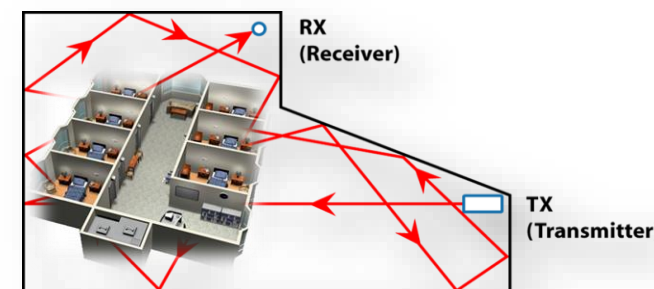
- Propagation characteristics of such signals can be quite complicated in indoor environments.
- An RF signal that is broadcast within a given location provides comprehensive coverage due to the signal's ability to be reflected by or transmitted through walls, ceilings, and other physical barriers with little appreciable attenuation.
- Finding the exact source of a signal, in particular in a multi-story building, can never be a sure thing.



Ultrasonic

Available in SECURalert Ultrasonic Only and Hybrid Systems

- Several characteristics of ultrasonic signals make them useful for transmitting alarm signals. Ultrasonic waves tend not to penetrate structural barriers such as walls, ceilings or windows. Instead, these high frequency waves are readily reflected by hard surfaces such as concrete block and glass.
- Based on these propagation characteristics, ultrasonic alarm signals tend to stay localized to the room in which they are broadcast. For duress alarm systems, this characteristic can be exploited to provide localization that is based on the known location of alarm receivers.



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Quick Reference Sheet



Receivers



Wireless
Transmitters



Radio



Central Station



Repeaters

Key features

- Easy installation
- Can be wall or ceiling mounted – no wires
- Tamper proof
- Local confirmation LED
- Can work in latch or follower mode
- Supervised
- Batterie operated
- Addressable

- Heavy-Duty – 2-way transmitters
- Ultrasonic sensor supervised*
- Full bi-directional communication
- Cannot be activated by mistake
- Clips to belt, pocket or any piece of clothing
- Single-hand operation
- Vibrates for positive feedback
- Operation customizable
- Rechargeable (4 weeks per charge)

- Multiple channel, bi-directional RF Communication
- The R900 and R900E are powered from a 12Vdc, 500mA power
- The R900 is self-powered via PoE or uses local power with onboard battery back up
- Up to 12 different channels can be used to avoid interference with other equipment
- Bi-directional communication provides an incomparable reliability

- Acts as main server and processes all communication
- 3 views available: graphical view (shown), display view and grid view
- Usually located at Security desk, /station or with front-end systems.
- Where the system configuration is performed, and reports are accessed
- Typically a flat screen and computer in one unit with touch screen but can be a normal computer too
- 4 hours of battery back-up time

- Tamper proof
- Can be wall or ceiling mounted
- Local confirmation LED
- Supervised
- More than 100 feet of range inside
- Less than 15 feet of precision
- Can be hidden
- No calibration required

How it Works

When the button is pressed, 2 signals are launched simultaneously:

1. **Ultrasonic** leaves the transmitter and finds the in-room Receiver. The in-room Receiver sends the transmitter's ID and its own ID to a Repeater. The signal may pass through several Repeaters and Radios to the Central. The Central acknowledges the alarm request and sends a signal back to the Receiver and Transmitter. The transmitter vibrates and LED flashes letting the user know that help is on the way. The location is extremely accurate (Room Level).
2. The **Radio Signal** reaches nearby Repeaters and/or Radios and triangulation is calculated. The signal carries the alarm information to the Central via a series of Repeaters and Radios. The Central acknowledges the alarm request and sends a signal back to the Transmitter and it vibrates letting the user know that help is on the way. The location is typically accurate up to 15 feet (Zone level). This is useful in large areas and common areas such as stairwells.

Then end result provides a zone notification, an accurate room location and person's ID as defined by internal protocols.



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Stage 2 - Central Alarm Processing



Wall mount



Desk Top



MM900

SECURalert's master receiver is a compact industrial computer unit with built-in touch screen and 4 hours minimum of battery backup.

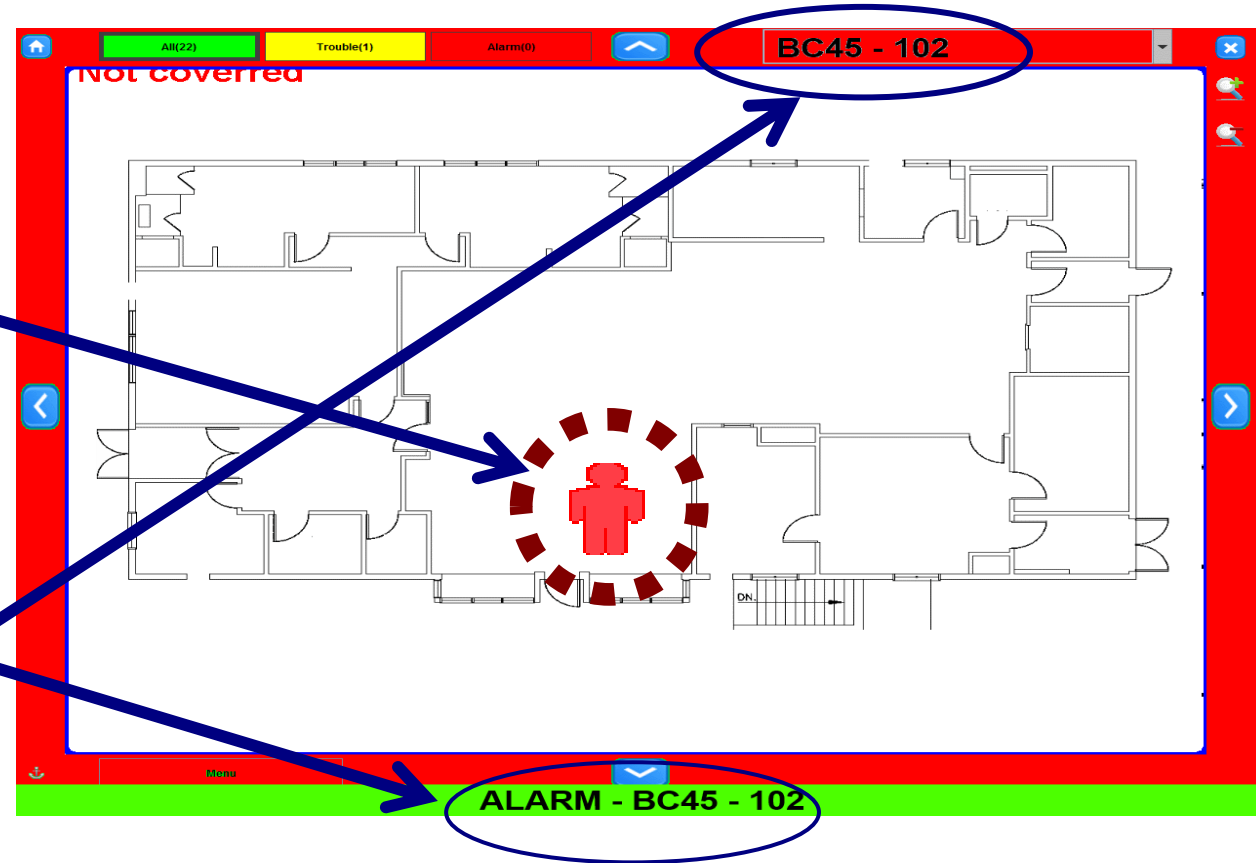
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Main Central- M900 operation- ACTIVE ALARM STATE

1. The screen border will flash **RED**

2. Only the triggered device will appear, flashing RED on the screen, with a red circle around it.

3. The room number, or zone ID will appear :
- In the top right corner (flashing).
- On the bottom line of the screen




* Display based on correctional requirements – Enhanced 2D & 3D displays are available through XTendCall

Main Central Screen for resort environments (many possibilities)

Alarm BC05-101 14:20:31 / 28/09/14


Location Detail Map



Active Alarm

Date	Title	State	
14/09/14	BC05-101	ACK	0384

Site Map



Securalert m...
Version v5.01
User
Master