

Life detector device Leader Scan

SCAN

Following structural collapses, landslides or avalanches, Leader SCAN can detect and locate trapped victims with UWB (Ultra Wide Band) radar technology. UWB sensors scan the surface of rubble for chest or gestural movements of buried victims up to 30m in open field.

The high sensitivity sensors detect even the weakest movements and allow to precisely indicate the depth to which the victim is located. The frequency of movements is also analysed in order to deduce whether it is a human life or not.

Leader SCAN has 2 search modes:

- Automatic: Automatic analysis of several predefined areas to detect up to 7 living people.
- Manual : Manual analysis defined beforehand with selection of the search area.

UWB movement detector

Leader SCAN sensors feature Ultra Wide Band (UWB) technology that scans the surface of the rubble to search for conscious or unconscious victim movements up to 30m in open field.

High sensitivity sensors

Leader SCAN detects even the smallest movements (respiratory or gestural movements) and displays their frequency to deduce whether it is a human life or not.

2 search modes

- AUTOMATIC search mode: allows to automatically analyse several areas to detect up to 7 living people!
- MANUAL search mode: manual selection of the search area and the minimum & maximum depth!

Technical specifications

- Modes: Motion detection
- Technology: 1 wireless Ultra Wide Band (UWB) radar sensor (cable supplied for wired connection)
- Features: Sensor control from the control box, Display of detected motion at detected depth, Real Time and Auto modes, Depth selection, High-intensity or Low-intensity motion indicator, Oscilloscope for motion detail, Data record, Record replay, Right-handed / left-handed mode, Brightness adjustment, Charge level.

CONTROL BOX

- Dimensions: W: 24 x H: 15.2 x D: 5.1 cm
- Weight with battery: 1.38 kg

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- Screen: TFT LCD, 7" - 800 x 480 px WVGA
 - Screen protection: Transparent thermoplastic
 - Control box water and dust resistance: IP54
 - Autonomy: 5 h
 - Start time: <1 minute
 - Connections: 2 connectors for antenna connection and wired connection of UWB sensor
 - Antenna for UWB sensor connection: Removable and adjustable for a range up to 30m in unobstructed space
 - Wireless transmission: Antenna for interconnection of wireless seismic sensors (up to 30-50m in unobstructed space)
 - Memory card: Slot for micro SD card for recording detection data

SENSOR(S)

- Technology: UWB radar sensor
- Box connection type: Wireless (wi-fi)
- Number of interconnections: 1 wireless sensor (cable supplied for wired connection)
- Range: 30m in unobstructed space
- Dimensions: W: 43 x H: 24.4 x D: 34.1 cm
- Weight: 6.7 kg (with batteries)
- Frequency: 2.4 GHz
- Water and dust resistance of sensors: IP67
- Power supply: Endura CUE - D75 L-Ion Battery (4.9A / 59W)
- Autonomy: 5 h

NOISE-REDUCING HEADPHONES

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POLE

CAMERA HEAD (ON POLE)

CONTROL BOX BATTERY

- Dimensions: W: 6.5 x H: 13 x D: 3cm
- Weight: 280 g
- Type: Lithium Ion Polymer. 37 Wh
- Autonomy: 2.5 h
- Charging time: 3.5 h
- Recharging cycles: 500
- Compatibility: Interchangeable with LEADER Search, LEADER Cam and LEADER Scan
- Spare battery pack: Supplied additionally for use when needed with 10 AAA batteries

TRANSPORT CASE

- Material: Rigid impact-resistant polypropylene shell
- Transport: Suitable for air transport (integrated pressure equalising valve)
- Dimensions: H: 37 x D: 51 x W: 67 cm
- Empty weight: 13 kg
- Loaded case weight: 25.95 kg
- Water and dust resistance: IP67
- Number of wheels: -
- Internal protection: Device contained in a backpack ready to wear (to avoid the weight of the case)

