

Life detector device with seismic sensors Leader SEARCH

VBRA

Leader SEARCH is a life detection device used during rescue operations following disasters. The wireless or wired seismic sensors detect the signs of life (vibration detection) under the rubble and then locate the victims in a precise way.

It is possible to connect up to 6 seismic sensors to detect the different sounds coming from the victims: scratching, hitting, screaming, etc. Connection of up to 3 wireless sensors with a range of over 100m each in open field. Connection of up to 3 wired sensors with 8m of cable each. Once the victim is located, the waterproof wired communication probe of LEADER Search allows dialogue with the victim to assess what help is required.

Wireless and/or wired technology

A rescuer can connect up to 3 wireless sensors with a range of 100 m in open field each, and up to 3 wired sensors with 8 m of cable each. These seismic sensors have been designed to detect the different sounds coming from the victims: scratching, hitting, screaming, etc.

Ergonomic control box

Lightweight and compact, Leader SEARCH control box is powered by a rechargeable battery with a life of 5 hours. The control box screen has high brightness allowing to visualise the details in broad daylight.

Communication with buried victims

Leader SEARCH has a waterproof communication probe (IP67) equipped with 8m of cable to communicate with buried victims and assess what help is required.

Technical specifications

- Modes: Seismic monitoring (vibration)
- Technology: Up to 3 wireless seismic sensors and 3 wired sensors
- Features: Seismic monitoring: Individual control of each sensor from control box, Adjustable anti-noise filters (high-pitched/low-pitched noise filter), Mono or Stereo listening mode, Display of the detected signal, Tracers to help with the reading of the signal, Charge level.

CONTROL BOX

- Dimensions: W: 24 x H: 15.2 x D: 5.1 cm
- Weight with battery: 1.38 kg
- Screen: TFT LCD, 7" - 800 x 480 px WVGA
- Screen protection: Transparent thermoplastic
- Control box water and dust resistance: IP54
- Autonomy: 2.5 h
- Start time: <1 minute

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- Connections: Up to 2 headphones, Camera and Antenna
 - Wireless transmission: Antenna for interconnection of wireless seismic sensors (up to 100m in unobstructed space)
 - Memory card: Slot for micro SD card for recording photos and videos

CONTROL BOX BATTERY

- Dimensions: W 6.5 x H 13 x D 3cm
- Weight: 280gr
- 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

CAMERA HEAD (ON POLE)

SENSOR(S)

- Technology: Seismic Sensors
- Type of connection to control box: Wireless (Proprietary format) for 3 sensors and Wired for the other 3
- Number of interconnections: 1 or 2 or 3 wireless sensors + 1 or 2 or 3 wired sensors
- Range: Wireless sensor: 100 m in unobstructed space / wired sensor: 8m of cable
- Dimensions: Wireless sensor: H 212 mm with antenna x Diameter 90mm / Wired sensor: H 85 mm x Diameter 90 mm
- Weight: Wireless sensor: 690 g (without batteries) / Wired sensor: 1400 g with cable
- Frequency: 2.4 GHz
- Water and dust resistance of sensors: IP67
- Power supply: Wireless sensor: 3 AAA alkaline batteries - LR03 / Wired sensor: Powered by the control box
- Autonomy: Wireless sensor: Approx. 8 hours depending on battery brand / Wired sensor: Control box autonomy

NOISE-REDUCING HEADPHONES

- Weight: 430 g
- Mono or Stereo: Stereo
- Microphone: Built-in to communicate in search camera mode
- NRR (Noise Reduction Rating) hearing protection: 23 dB
- Number of simultaneously connected pairs: 2 pairs of headphones, one being optional

TRANSPORT CASE

- Material: Rigid impact-resistant polypropylene shell
- Transport: Suitable for air transport (integrated pressure equalising valve)
- Dimensions: W: 65 x D: 51 x H: 24.2 cm
- Empty weight: 7 kg
- Loaded case weight: 26.5 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)

