

LEADER Scan

Detects the slightest respiratory movement of a conscious or unconscious buried victim under rubble! Detection technology : UWB (Ultra Wide Band)

ULTRA-SENSITIVE UWB MOVEMENT SENSOR

KEY POINTS

- Compact and lightweight
- Detects movement from up to 30 m away in open field
- Detects breathing from up to 10 m away
- Real-time movement detection
- Wireless or wired connection

INCLUDED ACCESSORIES :















and gives visual indications on his or her movements

- (respiratory movements or movements of a finger, for example)
- (suggesting whether human life or not)



GENERAL FUNCTIONS Screen brightness adjustment Left- and right-handed use Indication of charge of control Choice of connection to the co Indication of status of connect (starting, ready to be connected Data recorded (useful for exam data or during training) 2 SEARCH MODES : AUTOMATIC search mode for automatically analyses several 8-12 m) MANUAL search mode define area (Choice of minimum and FUNCTIONS AVAILABLE IN Set minimum search depth (s Set maximum search depth (e Large or small movement indi **OSCILLOGRAM FUNCTION**

An arrow is placed at the dept This enables the operator to :

- Confirm the presence of area. 1 (If it detects seve on the strongest moveme
- Display the frequency of

THE ADVANTAGES THAT MAKE THE DIFFERENCE

AN ERGONOMIC CONTROL BOX :

- Compact and lightweight Extra-wide colour screen
- High brightness screen for viewing in full daylight
- Menu and intuitive navigation
- Autonomy : 2.5 hours

battery.

Quickly replaceable lightweight compact rechargeable

HIGH-SENSITIVITY UWB SENSOR :

- ▶ High-sensitivity sensor using UWB (Ultra-Wide Band) technology
- Lightweight and compact
- Placed in a small waterproof and shockproof transport case
- Search distance : Up to 30 m in open field
- Accuracy : approx.1 m
- Real-time movement detection
- ▶ 2 search modes : Manual and Automatic
- ▶ 2 batteries (each lasting 4 hours) supplied
- 2 types of connection to the control box :
 - Wi-Fi with 30m range (no cable management problems) - Waterproof wired USB (5 m of cable) : Alternative in case of nearby interference preventing use of Wi-Fi

FUNCTION

Displays small or large movements Displays frequency of movement



Intuitive navigation interface

Ability to save data during search

Easily interchangeable battery

Battery indicator visible outside of sensor

Battery compatible with LEADER Search, LEADER Cam and LEADER Hasty control boxes.

Back up pack for 10 AAA batteries (not supplied). Makes the device functional even if the battery cannot be charged during rescue operation.

| | IN UWB SEARCH MODE |
|---|--------------------|
| | |
| t | Yes |
| | Yes |
| I box battery | Yes |
| ontrol box (USB or Wi-Fi) | Yes |
| tion of control box to sensor ed, connected, not connected, error) | Yes |
| mining search history, re-examining | Yes |
| | |
| r rapid deployment. The apparatus al predefined areas (0-4 m, 4-8 m, | Yes |
| ed by user with selection of search maximum depth of search area) | Yes |
| SEARCH MODE | |
| tart) | Yes |
| end) | Yes |
| cator | Yes |
| | |
| th where movement is detected. movements in the selected search veral movements it will concentrate ent) | Yes |
| the detected movement. 2 | |

TECHNICAL DATA PAGES 40 & 41





COMPOSITION OF EACH PRODUCT

| CONTENTS OF CASE | 1 control box + 1 UWB sensor |
|--|------------------------------|
| CONTENTS OF CASE | Ref D11.07.018 |
| Control box | 1 |
| Antenna for control box | 1 |
| Battery for control box | 1 |
| Charger for control box | 1 |
| Spare battery pack (without batteries) for control box | 1 |
| Sunshade | 1 |
| Shoulder strap | 1 |
| Hand strap | 1 |
| UWB sensors | 1 |
| Antenna for UWB sensor | 1 |
| 5-m USB cable for connecting control box to sensor | 1 |
| Battery for UWB sensor | 2 |
| Charger for UWB sensor | 1 |
| International connection adaptor kits | 1 |
| Transport backpack | 1 |
| Waterproof and shockproof transport case | 1 |
| User manual | 1 |

TECHNICAL DATA

CONTROL BOX CHARACTERISTICS

| CONTROL BOX | |
|------------------------------------|--|
| Dimensions | L 24 x W 15.2 x H 5.1 cm |
| Control box weight without battery | 1.1 kg |
| Control box weight with battery | 1.38 kg |
| Control box material | Polypropylene |
| Anti-shock bumper | Rubber belt around the thickness |
| Shock resistance | Drop test performed up to 2 m. |
| Water and dust resistance | IP54 |
| Autonomy | 2.5 hours |
| Startup time | < 1 minute |
| Keyboard | Phosphorescent |
| Connections | 2 metal ports for connecting UWB sensor and antenna |
| Operating temperatures | From -10° to +60°C |
| Storage temperature | From -40° to +70°C |
| Antenna for UWB sensor connection | Removable and articulated for a range of up to 30m in open field |

| SCREEN | |
|--------------|---|
| Туре | TFT LCD |
| Resolution | 7" - 800 x 480 px WVGA |
| Brightness | 1000 candela/m2 |
| Backlighting | LED |
| Colours | 16-bit RGB |
| Protection | Transparent thermoplastic: 3 mm colourless scratch-resistant PMMA |

UWB SEARCH EQUIPMENT CHARACTERISTICS

| | UWB SENSO |
|------------------------------------|--|
| Material | Sensor contained in a waterproof and shockproof orang |
| Technology | UWB: Ultra Wide Band |
| Search distance | Up to 30 m in open air |
| Accuracy | Approx. 1 m |
| Type of connection to control unit | Wi-Fi connection to control unit with more than 30 m m Waterproof USB connection with 5 m of cable: Alterna |
| Dimensions with antenna | L 43 x W 24.4 x H 34.1 cm |
| Weight (including battery) | 6.7 kg |

POWER SUPPLY

| CONT | ROL BOX BATTERY | UWB SEN | SOR BATTERY |
|--|---|-----------------------------------|-----------------------------|
| Dimensions | L 6.5 x W 13 x H 3 cm | Dimensions | L 8.5 x W 14.2 x H 3.3 cm |
| Weight | 280 g | Weight | 520 g |
| Туре | 4 Lithium Ion Polymer cells (Wh) | Туре | Li-Ion Endura 7S |
| Capacity | 2500 mA.h | Capacity | 4.6Ah / 50W |
| Autonomy | 2.5 hours | Autonomy | 4 hours |
| Charging time | 3.5 hours | Charging time | 4 hours |
| Recharging cycles | 500 | Recharging cycles | 500 |
| Charging temperature | 0° to +45°C | Charging temperature | 0 to 45°C |
| Water and dust resistance | IP67 | Charge level indication | Visible on outside of senso |
| Battery compatible and interchangeable | Yes with LEADER Search, LEADER Cam and LEADER Hasty | CHARGER + TRANSFC | RMER FOR UWB SENSOR |
| Charge level indication | Displayed on control box screen | Charger dimensions | H 8.3 x D 14.2 x L 2.8 cm |
| | 1 | Charger weight | 360 g |
| CHARGER + TRAN | SFORMER FOR CONTROL BOX | Charger input voltage | 100 = 240 VAC / 50-60 Hz |
| Charger dimensions | H 10.5 x D 4.5 x L 3.5 cm | International connection adaptors | Yes: UK, EU, AUS, USA |

| CHARGER + TRANSFORMER FOR CONTROL BOX | | |
|---------------------------------------|---------------------------|--|
| Charger dimensions | H 10.5 x D 4.5 x L 3.5 cm | |
| Charger weight | 200 g | |
| Charger input voltage | 100 = 240 VAC / 50-60 Hz | |
| International connection adaptors | Yes: UK, EU, AUS, USA | |

| SPARE BATTERY PACK FOR CONTROL BOX | | |
|---|---|--|
| Dimensions | L 6.5 x W 13 x D 3 cm | |
| Weight with 10 batteries (not supplied) | 300 g | |
| Type and number of batteries required | 10 x AAA-LR03 alkaline batteries | |
| Autonomy | Approx. 1 h 30 m depending on the standard cell batteries brand | |

TRANSPORT CASE AND BACKPACK

| TRANSPORT CASE | |
|----------------------------|--|
| Material | Rigid impact-resistant polypropylene shell |
| Suitable for air transport | Integral pressure equalising valve |
| Dimensions | H 37 x W 51 x L 67 cm |
| Empty weight | Approx. 13 kg |
| Loaded case weight | 25.95 kg |
| Water and dust protection | IP65 |
| Number of wheels | 2 |
| Colour | Orange |

nge ABS case

range. Eliminates cable management problems native in case of nearby interference preventing Wi-Fi use

| RESPONDER'S BACKPACK | |
|----------------------|-----------------------|
| Material | Polyester 1200 |
| Dimensions | L 57 x W 47 x D 20 cm |
| Empty weight | 2.5 kg |
| Colour | Red |

