

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

