



LEADER SEARCH 3W+3C

Seismic listening device to detect and locate vibrations caused by buried victims

Developed with SAR specialists

LEADER SEARCH is used during SAR operations to detect conscious buried victims (scratching, voice... even in the most difficult conditions) then precisely locate their position under the rubble.

Designed to be rapidly deployed in the field thanks to its 3 wireless sensors with a range of 328 ft. in open space (no cable management issues), it can also be linked to 3 wired sensors. Equipped with a filter system to eliminate ambient noise, it offers exceptional sound quality.

LEADER SEARCH also allows you to communicate with any victim using its communication probe.

Meets operational requirements

Many leading international search and rescue teams (INSARAG, Civilian Security, FEMA Task Force, USAR teams, NGOs, etc.) use LEADER search equipment.

Benefits

- Compact and ergonomic design
- Intuitive navigation interface
- "MONO-APP" control box for dedicated use of the SEARCH seismic sensors
- Color screen with lower control buttons for direct control of each sensor
- Exceptional sound quality
- 3 ultra-sensitive wireless seismic sensors (328 ft. range) + 3 wired sensors (26.25 ft. cable each)
- Filters to eliminate ambient noise
- Microphone and speaker built into the communication probe
- Noise-cancelling headset with microphone to speak (one supplied, 2nd as option)
- 5 hours of running time

Kit composition & functions

LEADER SEARCH 3W+3C COMPOSITION - Ref: D11.04.334	
MONO-APP control box	1
Antenna	1
Noise-cancelling headset	1
Sun shade	1
Strap	1
Hand strap	1
Wired seismic sensors	3
Wireless seismic sensors	3
Communication probe	1
Points for sensors	3
Magnets for sensors	3
Battery	1
Charger	1
International adapter kit	1
Back-up battery pack (without battery)	1
Storage backpack	1
Waterproof transport case	1
User guide	1

SEISMIC LISTENING MODE FUNCTIONS	
Individual control of each sensor from the box	Each sensor can be listened to alone or simultaneously with some or all other sensors. Accessible individually via the keyboard on the box.
Anti-noise filters which can be adjusted from the box	Low-pass filter: Eliminates high-pitched noise. Adjustable from 600 to 3000 Hz High-pass filter: Eliminates low-pitched noise. Adjustable from 20 to 300 Hz
Mono or Stereo listening mode	Mono: To listen to selected sensors in both ears Stereo: To listen to selected sensors in the right or left ear
Visualisation trackers on screen	Yellow trackers above each bar chart to help interpret the peaks. The red tracker identifies the highest seismic peak by staying on the screen for slightly longer.
Sound adjustment	Allows adjustment of headset and microphone sound volume when using the probe
Push to Talk	Function requiring the rescuer to complete an action to speak to the victim and thus prioritise listening to them.
Adjustment of screen brightness	Helps save battery or avoid dazzling in dark conditions, but also to see the screen more clearly in sunlight.
Wireless sensor charge level	Specific function indicating the battery level for each sensor
Battery charge level	Function indicating the box battery charge level
Right or left-handed use	Function to invert the screen (image displayed & navigation interface). The keyboard controls are also automatically inverted.

Technical features

CONTROL BOX

Box unique feature	Single application MONO-APP box with single configuration for use of SEARCH seismic sensor devices (wireless and wired)
Dimensions	W 9.45" x H 6" x D 2"
Box weight	2.7 lbs. kwith removable battery
Wireless device connections	- 3 SEARCH seismic sensors (328 ft. range in open space) - Removable antenna supplied to add range.
Wired device connections	IP68 connectors to connect up to 3 SEARCH wired seismic sensors or the COM communication probe, and up to 2 headsets.
Screen	TFT-type LCD, 5" resolution - 800 x 480 px WVGA, brightness 1000 candela/m2, LED backlighting, 16 bit RGB colors.
Box material	Polypropylene
Shock-proof bumper	Thick rubber bumper
Screen protection	Transparent thermoplastic plate: Clear PMMA 3 mm abrasion-resistant
Impact resistance	Drop test up to 6.56 ft.
Box ingress protection	IP54
Battery life	5 hours
Start-up time	Under 1 minute
Keyboard	Phosphorescent
Operating temperatures	14° to +140°F
Storage temperature	-40° to +158°F
Headsets	2 headsets which can be used simultaneously. One supplied as standard and one as an option including a Y connector to connect 2 pairs to the box.

NOISE-CANCELLING HEADSET

Reference	1 headset supplied with the control box. Replacement: 200 63 82
Weight	Around 15 oz.
Sound type	Stereo
Built in microphone	Yes, to communicate with the victim in search camera mode.
NRR audio protection	Noise Reduction Rating: 23 dB

CONTROL BOX BATTERY

Reference	A battery included with the control box. Extra battery: D11.04.341.
Dimensions	W 2.6" x H 5.1" x D 1.2"
Weight	9.9 oz.
Type	4 Lithium-Ion Polymer cells (37 Wh)
Capacity	2500 mA.h
Battery life	2.5 hours
Recharge time	3.5 hours
Charging cycles	500
Charging temperature	32° to +113°F
Ingress Protection	IP54
Unique feature	Interchangeable battery with all MONO-APP and MULTI-APP boxes
Indication of battery level	Continually displayed on box screen

CHARGER FOR CONTROL BOX BATTERY

Reference	Supplied with the control box. Replacement: 200 61 63
Charger dimensions	H 4.1" X D 1.8" X W 1.4"
Charger weight	7 oz.

Charger input voltage	100-240 VAC / 50-60 Hz
International adapters	UK, EU, AUS, USA

BACK-UP BATTERY PACK FOR CONTROL BOX

Reference	Supplied with the control box. Replacement: 200 61 55
Dimensions	W 2.6" x H 5.1" x D 1.2"
Weight with batteries (not supplied)	10.6 oz.
Batteries used	10 AAA-LR03 lithium batteries
Battery life	Up to 2 hours depending on battery brand

SEARCH PERIPHERALS - WIRELESS SEISMIC SENSORS

Dimensions with antenna	Height 8.35" x Diameter 3.54"
Weight	1.85 lbs. with batteries
Unique features	Wireless connection. Up to 3 sensors each with 328 ft. range in open space
Sensor/control box communication frequency	2.4 GHz
Sensor ingress protection	IP67
Impact resistance	yes
Audio response frequency	1 Hz to 3000 Hz
Power	3 AAA alkaline batteries - LR03
Battery life	Around 8 hours depending on battery brand
Fastening accessory	1 point and 1 magnet supplied with each sensor

SEARCH PERIPHERALS - WIRED SEISMIC SENSORS

Dimensions with antenna	Height 3.35" x Diameter 3.54"
Weight	3 lbs. with cable
Unique features	3 sensors each with 26.25 ft. orange high visibility and anti-abrasion cable To be connected in series.
Sensor ingress protection	IP67
Impact resistance	yes
Audio response frequency	1 Hz to 3000 Hz
Power	Via the box
Fastening accessory	1 point and 1 magnet supplied with each sensor

POINT FOR SEARCH PERIPHERAL

Reference	Supplied per unit with each sensor Replacement: 200 31 13
Function	Allows the use of a sensor on soft ground
Material	Steel

MAGNET FOR SEARCH PERIPHERAL

Reference	Supplied per unit with each sensor. Replacement: 200 35 14
Function	Allows the use of a sensor on metal debris
Material	Steel

Options & Accessories

NOISE-CANCELLING HEADSET

Reference	1 headset supplied with the control box. Replacement: 200 63 82
Weight	Around 15 oz.
Sound type	Stereo
Built in microphone	Yes, to communicate with the victim in search camera mode.
NRR audio protection	Noise Reduction Rating: 23 dB

2ND NOISE-CANCELLING HEADSET OPTION

Reference	additional headset: D11.04.340
Description	1 headset with microphone supplied with Y connector to connect 2 headsets to the box at the same time

NECK STRAP

Reference	Supplied with the control box. Replacement: 200 63 03
Material	Woven fabric supplied with hooks to fasten to the 4 corners of the box
Length	3.9 ft.

HAND STRAP

Reference	Supplied with the control box. Replacement: 200 61 97
Material	Woven fabric
Adjustment system	Velcro

SUN SHADE

Reference	Supplied with the control box. Replacement: D11.04.339
Material	Thermoformed foam with elastic straps for fastening to the box

Equipment packaging and storage

Each kit is packed in 1 or 2 backpacks, placed in 1 or 2 rigid and waterproof cases.
See *dedicated data sheet* to see the number, dimensions and weight.

Warranty

WARRANTY

Device	2 year warranty excluding accessories
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