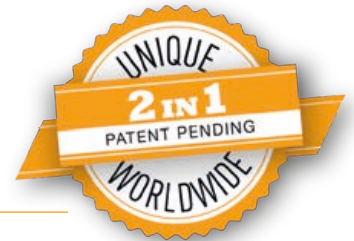




LEADER Hasty

The only search device that combines victim detection with a search camera!
 Detection technology : Seismic

WIRELESS SEISMIC DETECTOR & SEARCH CAMERA



+ KEY POINTS

- ▶ 2-in-1 search device
- ▶ Fast deployment
- ▶ Compact and lightweight
- ▶ Ergonomic control box
- ▶ Intuitive navigation interface and menu
- ▶ Extra-wide color screen
- ▶ Ultra lightweight telescopic pole
- ▶ Up to 3 wireless seismic sensors, each with a range of 330 ft
- ▶ Position of camera shown on screen

INCLUDED ACCESSORIES :
























THE ADVANTAGES THAT MAKE THE DIFFERENCE

AN ERGONOMIC CONTROL BOX :

- ▶ Compact and lightweight
- ▶ Extra-wide color screen
- ▶ High brightness screen for viewing in full daylight
- ▶ Intuitive navigation interface and menu
- ▶ Run time: 2.5 hours
- ▶ Easily replaceable lightweight compact rechargeable battery.
- ▶ Battery compatible with LEADER Search, LEADER Cam and LEADER Scan control boxes.
- ▶ Backup pack for 10 AAA batteries (not supplied). Makes the device functional even if the battery cannot be charged during rescue operation.

A MULTIFUNCTION DEVICE :

		 IN SEARCH CAMERA MODE	 IN SEISMIC SEARCH MODE
 Digital zoom x 2*		Yes	
 Headphone(s) volume adjustment*		Yes	Yes
 Microphone volume adjustment*		Yes	Yes
 Push to Talk*		Yes	
 Screen brightness adjustment*		Yes	Yes
 Left- and right-handed operation*		Yes	Yes
 Image rotation* up (0°), down (180°)		Yes	Yes
 Display of camera head position*		Yes	
 Display of illumination level of LEDs positioned on camera head*		Yes	
 Noise reduction filter adjustment (low and high)			Yes
 Mono or Stereo listening mode (selected sensors heard in one or both ears)			Yes
 Listen to each seismic sensor individually			Yes
 Display trackers to identify the strongest movement peak			Yes
 Wireless sensors' charge indicated			Yes
 Battery charge indication		Yes	Yes
 Picture capture*		Yes	
 Video recording* with sound		Yes	
 Photo and video gallery to display recordings		Yes	
 Audio recording (recording of sounds from the communication pole: communication between victim and rescuer)		Yes	

*Usable simultaneously

SEARCH CAMERA MODE :

ROBUST WATERPROOF CAMERA HEAD :

- ▶ 170° movement of camera unit and 260° total field of view
- ▶ Camera protected by scratch-resistant sapphire lens
- ▶ Flexible articulation of camera unit to absorb shocks
- ▶ Water-resistant to 6.5 ft when camera fitted with plug
- ▶ Adjustable LED lighting with 8 intensity levels



ULTRA LIGHTWEIGHT TELESCOPIC POLE :

- ▶ Telescopic from 3.6 to 7.9 ft – Up to 13.1 ft available
- ▶ Ultra lightweight carbon-fiber construction
- ▶ "Articulated arm" supplied for mounting the control box on the pole



HIGH SENSITIVITY LISTENING MODE :

1, 2 OR 3 WIRELESS SEISMIC SENSORS CAN BE CONNECTED TO DETECT SOUNDS FROM VICTIM

- ▶ Range of about 100 ft in the field (no cable management because equipment is wireless)
- ▶ Range in excess of 330 ft in open field
- ▶ Sensor battery life: approx. 8 hrs

ADJUSTABLE NOISE REDUCTION FILTERS TO ELIMINATE UNWANTED LOW/HIGH NOISES FROM PNEUMATIC DRILLS, VEHICLES, THE WIND, ELECTRIC POWER CABLES, ETC.

MONO OR STEREO MODE FOR LISTENING TO THE SELECTED SENSORS IN ONE OR BOTH EARS

HIGH-PERFORMANCE NOISE-REDUCING HEADPHONES :

- ▶ Noise-reducing design to provide great listening quality without disruptions.
- ▶ Microphone with integrated noise reducer for clear communication with victims
- ▶ 1 or 2 sets of headphones can be connected simultaneously

TECHNICAL DATA
PAGES 44 & 45



TECHNICAL DATA LEADER Hasty

WIRELESS SEISMIC DETECTOR & SEARCH CAMERA

AVAILABLE VERSIONS

Contents of case	1 control box + 1 sensor + 1 pole (7.9 ft)	1 control box + 2 sensors + 1 pole (7.9 ft)	1 control box + 3 sensors + 1 pole (7.9 ft)	1 control box + 1 sensor + 1 pole (13.1 ft)	1 control box + 2 sensors + 1 pole (13.1 ft)	1 control box + 3 sensors + 1 pole (13.1 ft)
Ref	D11.04.349	D11.04.351	D11.04.359	D11.04.350	D11.04.352	D11.04.360
Control box	1	1	1	1	1	1
Antenna	1	1	1	1	1	1
Pair of noise-reducing headphones	1	1	1	1	1	1
Sunshade	1	1	1	1	1	1
Camera on 7.9 ft telescopic pole	1	1	1	-	-	-
Camera on 13.1 ft telescopic pole	-	-	-	1	1	1
Removable articulated arm (pole/control box mounting)	1	1	1	1	1	1
Shoulder strap	1	1	1	1	1	1
Hand strap	1	1	1	1	1	1
Water-resisting plugs (camera water-resistance accessory)	3	3	3	3	3	3
Wireless seismic sensors	1	2	3	1	2	3
Spikes for sensors	1	2	3	1	2	3
Magnets for sensors	1	2	3	1	2	3
Battery	1	1	1	1	1	1
Charger	1	1	1	1	1	1
International connection adaptor kits	1	1	1	1	1	1
Spare battery pack (without batteries)	1	1	1	1	1	1
Photo/video SD memory card	1	1	1	1	1	1
Waterproof transport case	1	1	1	1	1	1
User manual	1	1	1	1	1	1

CONTROL BOX CHARACTERISTICS

CONTROL BOX	
Dimensions	L 9.5 x W 6 x H 2 inch
Control box weight without battery	2.43 lbs
Control box weight with battery	3.04 lbs
Control box material	Polypropylene
Anti-shock bumper	Rubber belt around the thickness
Shock resistance	Drop test performed up to 6.5 ft
Water and dust resistance	IP54
Run time	2.5 hours
Startup time	< 1 minute
Keyboard	Phosphorescent
Connections	3 metal ports for connecting headphones, camera and antenna
Memory card	Slot for micro SD card for recording photos and videos
Software updating	By specific LEADER USB stick
Operating temperatures	From +14° to +140°F
Storage temperature	From -40° to +158°F
Antenna for interconnection of seismic sensors	Removable and articulated for a range of up to 330 ft in with seismic sensors in unobstructed space
Control unit/pole mounting system	Yes, intended position on back of control box for attaching the supplied articulated arm to connect control unit to pole

SCREEN	
Type	TFT LCD
Resolution	7" - 800 x 480 px WVGA
Brightness	93 candela / ft ²
Backlighting	LED
Colors	16-bit RGB
Protection	Transparent thermoplastic: 0.12 inch colorless scratch-resistant PMMA
Digital zoom	x2

TRANSPORT CASE

TRANSPORT CASE	
Material	Rigid impact-resistant polypropylene shell
Suitable for air transport	Integral pressure equalizing valve
Dimensions	H 7.1 x W 16.9 x L 47.6 inch
Empty weight	17.2 lbs
Loaded case weight	35.3 lbs
Water and dust resistance	IP67
Number of wheels	2

SEARCH CAMERA CHARACTERISTICS

POLE		
	7.9 ft version	13.1 ft version
Material	Carbon fiber	
Dimensions	Retracted: 3.6 ft Extended: 7.9 ft	Retracted: 3.6 ft Extended: 13.1 ft
Weight	3.1 lbs	4.4 lbs
Detachable grip	Yes	
Pole/control box mounting system	Yes, intended position on top of pole for attaching the supplied articulated arm to connect the control unit and pole together	

CAMERA	
Type of optics	Lens
Lens	Scratch-proof sapphire
Focal length	F = 0.12 inch fixed
Opening	90°

CAMERA UNIT	
Diameter	1.85 inch for entering standard 2.01 inch core holes
Camera articulation	170° (85° to right and 85° to left)
Field of view	260° in total
Type of articulation	Rotation by electric motor
Camera articulation control	From control box
Water resistance	Yes, to 6.5 ft when plug fitted to camera unit (Waterproof mode)
Lighting type	8 LEDs with 8 levels of illumination.
Microphone/loudspeaker	Integrated into camera for half-duplex communication with victim
Response frequency	300 Hz to 3500 Hz

SEISMIC SEARCH EQUIPMENT CHARACTERISTICS

WIRELESS SEISMIC SENSORS	
Type of connection to control unit	Wireless
Wireless seismic sensors	Up to 3 sensors with 330 ft range each in open field
Dimensions with antenna	Height 8.3 inch x Diameter 3.5 inch
Weight (with standard cell batteries)	1.52 lbs
Sensor/control box communication frequency	2.4 GHz
Water and dust resistance	IP67
Shock resistance	Yes
Audio response frequency	1 Hz to 3000 Hz
Individual control of each sensor from control box	Each sensor can be listened to alone or simultaneously with the second sensor.
Noise-reducing filters adjustable from control box	Low-pass filter: Removes high sounds. Adjustable from 600 to 3000 Hz High-pass filter: Removes deep sounds. Adjustable from 20 to 300 Hz
Mono or Stereo listening mode	For listening to the selected sensors in both ears, right ear only or left ear only
On-screen display trackers	Yellow trackers above each bar graph for clear reading of peaks. Red tracker identifies the highest seismic peak, staying on screen for an additional brief period.

NOISE-REDUCING HEADPHONES	
Weight	Approx. 0.95 lbs
Mono or Stereo	Stereo
Built-in microphone	Yes, to communicate with victims in search camera mode
NRR (Noise Reduction Rating) hearing protection	23 dB
Number of simultaneously connectable pairs of headphones	2 pairs simultaneously connectable, one being optional (supplied with a Y connector for connecting 2 pairs of headphones to the same control box)

POWER SUPPLY

CONTROL BOX BATTERY	
Dimensions	L 9.5 x W 6 x H 2 inch
Weight	0.62 lbs
Type	4 Lithium Ion Polymer cells. 37 Wh
Capacity	2500 mA/hour
Run time	2 hours 30 min
Charging time	3 hours 30 min
Recharging cycles	500
Charging temperature	+32° to +113°F
Water and dust resistance	IP54
Battery compatible and interchangeable	Yes with LEADER Search, LEADER Cam and LEADER Scan
Charge level indication	Displayed on control box screen

CHARGER + TRANSFORMER	
Charger dimensions	H 0.4 x W 0.2 x L 0.15 inch
Charger weight	0.44 lbs
Charger input voltage	100 - 240 VAC / 50-60 Hz
International connection adaptors	Yes: UK, EU, AUS, USA

SPARE BATTERY PACK	
Dimensions	L 2.5 x W 5.1 x H 1.2 inch
Weight with 10 batteries (not supplied)	0.66 lbs
Type and number of batteries required	10 x AAA-LR03 lithium batteries
Run time	Approx. 1 h 30 min depending on standard cell batteries brand

WIRELESS SENSORS POWER SUPPLY	
Type and number of batteries required	3 x AAA - LR03 alkaline batteries
Run time	Approx. 8 hrs depending of the standard cell batteries brand