

Life detector and search camera Leader HASTY 2-in-1

HASTY

Leader HASTY is the only USAR equipment in the world combining a victim detector with seismic sensors and a search camera to visually locate victims under the rubble.

Compared to wired technology, wireless seismic sensors deploy simply and quickly. To cover a wide detection range, three wireless sensors with a range of 100m each (in open field) can be connected at the same time.

HASTY, a 2-in-1 victim detection and location device: seismic sensors detect signs of life generating vibrations, and search camera precisely locates the victim under the rubble. Seismic sensors also allow the location of a victim through different methods such as triangulation.

2-in-1 equipment ideal for USAR (Urban Search and Rescue) operations

Leader HASTY combines the functions of seismic detection (listening device) + visual search (camera) for finding trapped victims under rubble in a confined space.

Wireless seismic sensors

The rescuer can connect up to 3 wireless seismic sensors (range of 100m each in open field).

The triangulation technique is then very easy to use compared to the use of wired sensors. The rescuer keeps one hand free for its personal equilibrium and safety.

Rapid deployment

Thanks to its wireless sensors, Leader HASTY implementation is simple and fast compared to wired systems. Rescue teams are 3 times faster with wireless sensors. Search camera is just as quick to deploy!

Versatility

The rescuer can switch from seismic detection mode (vibration detection) to search camera mode at a glance. Screen size is optimal for viewing the scene. This way, the rescuer is able to carry out rapid searches during recognition (detection phase) or to deepen the search to locate a victim (locating phase).

Technical specifications

- Modes: 2 in 1 device
- Seismic monitoring (vibration) and Search camera
- Technology: Up to 3 wireless seismic sensors / Search camera
- 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. Search camera: Right/Left camera orientation, Manual 360° orientation, Lighting (8 illumination levels), Photo/Video recording, Photo/Video playback, Digital zoom x2, PTT audio communication, Image rotation, Right-handed / left-handed mode, Sound volume

adjustment, Brightness adjustment, 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
- 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

• **POLE**

- Models: 2.4m or 3.7m
- Weight: Model 2.4m = 1.4 kg / Model 3.7m = 2 kg
- Head: Model 2.4m = attached to the pole / Model 3.7m = detachable
- Material: Carbon fibre
- Pistol grip: Removable
- Pole/control box mounting: Articulated arm supplied to attach the box to the pole

• **CAMERA HEAD (ON POLE)**

- Diameter: 47 mm to fit in standard 51mm core holes
- Camera articulation: 170° (85° to right and 85° to left)
- Field of view: 260° in total
- Type of articulation: Motorised electric rotation with flexible articulation to absorb shocks
- Lighting: 8 LED with 8 illumination levels
- Communication: Microphone/loudspeaker integrated for half-duplex communication with victim
- Camera protection: Scratch-proof sapphire lens
- Water resistance: Up to 2m when the camera head has its water-resisting plug fitted

• **SENSOR(S)**

- Technology: Seismic Sensors
- Box connection type: Wireless (Proprietary Format)
- Number of interconnections: 1 or 2 or 3 wireless sensors
- Range: 100m in unobstructed space

- Dimensions: Height 212mm with antenna x Diameter 90mm
- Weight: 690g (without batteries)
- Frequency: 2.4 GHz
- Water and dust resistance of sensors: IP67
- Power supply: 3 AAA alkaline batteries - LR03
- Autonomy: Approx. 8 hours depending on battery brand

• 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: H 18 x D 43 x W 121 cm
- Empty weight: 7.80 kg
- Loaded case weight: 16 kg
- Water and dust resistance: IP67
- Number of wheels: 2
- Internal protection: Device contained in a case with foam integrated



