



# LEADER Cam

Compact, lightweight and ergonomic

## SEARCH CAMERA WITH BUILT-IN COMMUNICATION SYSTEM

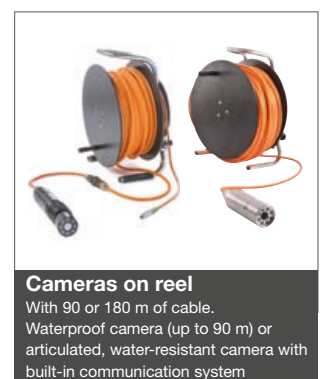
### KEY POINTS

- ▶ Position of camera shown on screen
- ▶ Compact and lightweight
- ▶ Ergonomic control box
- ▶ Intuitive navigation interface and menu
- ▶ Extra-wide colour screen
- ▶ Ultra lightweight telescopic pole

### INCLUDED ACCESSORIES :



### OPTIONAL ACCESSORY :



# THE ADVANTAGES THAT MAKE THE DIFFERENCE

## AN ERGONOMIC CONTROL BOX :

- ▶ Lightweight and compact
- ▶ Extra-wide colour screen
- ▶ High brightness screen for viewing in full daylight
- ▶ Menu and intuitive navigation
- ▶ Run time: 2.5 hours
- ▶ Easily replaceable lightweight compact rechargeable battery.
- ▶ Battery compatible with LEADER Search, LEADER Hasty 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 :



| FUNCTIONS |   | IN SEARCH CAMERA MODE |
|-----------|---|-----------------------|
|           | Digital zoom x 2*   | Yes                   |
|           | Headphone(s) volume adjustment*   | Yes                   |
|           | Microphone volume adjustment*   | Yes                   |
|           | Push to Talk*   | Yes                   |
|           | Screen brightness adjustment*   | Yes                   |
|           | Left- and right-handed use*   | Yes                   |
|           | Image rotation* up (0°), down (180°)  | Yes                   |
|           | Display of camera head position*  | Yes                   |
|           | Display of illumination level of LEDs located on camera head*   | Yes                   |
|           | Battery charge indication   | Yes                   |
|           | Picture capture*  | Yes                   |
|           | Video recording* (without 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 AND WATERPROOF CAMERA HEAD :

- ▶ 170° movement of camera head and 260° total field of view
- ▶ Camera protected by scratch-resistant sapphire lens
- ▶ Flexible camera joint head to absorb shocks
- ▶ Water-resistant to 2 m when camera fitted with plug
- ▶ Adjustable LED lighting with 8 intensity levels



### ULTRA LIGHTWEIGHT TELESCOPIC POLE :

- ▶ Telescopic from 1.1 to 2.4 m – Up to 4 m available
- ▶ Ultra lightweight carbon-fiber construction
- ▶ "Articulated arm" supplied for mounting the control box on the pole



## HIGH-PERFORMANCE NOISE-REDUCING AUDIO 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  
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# TECHNICAL DATA LEADER Cam

SEARCH CAMERA

## AVAILABLE VERSIONS

| Contents of case   | 1 control box<br>+1 pole (2.4m) | 1 control box<br>+1 pole (4m) | 1 control box<br>+1 articulated<br>camera<br>on 90m reel | 1 control box<br>+1 articulated<br>camera<br>on 180m reel | 1 control box<br>+1 water-resistant<br>camera<br>on 90m reel |
|--|---------------------------------|-------------------------------|--|---|--|
| Ref  | D11.04.342                      | D11.04.343                    | D11.04.344   | D11.04.366  | D11.04.345   |
| Control box  | 1                               | 1                             | 1  | 1   | 1  |
| Pair of noise-reducing headphones                                    | 1                               | 1                             | 1  | 1   | 0  |
| Sunshade   | 1                               | 1                             | 1  | 1   | 1  |
| Articulated camera on 2.4 m telescopic pole                          | 1                               | 0                             | 0  | 0   | 0  |
| Articulated camera on 4 m telescopic pole                            | 0                               | 1                             | 0  | 0   | 0  |
| Articulated camera on 90 m reel                                      | 0                               | 0                             | 1  | 0   | 0  |
| Articulated camera on 90 m reel<br>+ 90 m extension on a second reel | 0                               | 0                             | 0  | 1   | 0  |
| Non-articulated camera (water-resistant to 90 m) on 90 m reel        | 0                               | 0                             | 0  | 0   | 1  |
| Removable articulated arm (pole/control box mounting)                | 1                               | 1                             | 1  | 1   | 1  |
| Shoulder strap   | 1                               | 1                             | 1  | 1   | 1  |
| Hand strap   | 1                               | 1                             | 1  | 1   | 1  |
| Water-resisting plugs (camera water-resistance accessory)            | 3                               | 3                             | 3  | 3   | 0  |
| Battery  | 1                               | 1                             | 1  | 1   | 1  |
| Charger  | 1                               | 1                             | 1  | 1   | 1  |
| International connection adaptor kits                                | 1                               | 1                             | 1  | 1   | 1  |
| Spare battery pack (without batteries)                               | 1                               | 1                             | 1  | 1   | 1  |
| Photo/video SD memory card   | 1                               | 1                             | 1  | 1   | 1  |
| Waterproof transport case  | 1                               | 1                             | 1  | 2   | 1  |
| User manual  | 1                               | 1                             | 1  | 1   | 1  |

## 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       | 1.380 kg   |
| Control box material                  | Polypropylene  |
| Anti-shock bumper                     | Rubber belt around the thickness   |
| Shock resistance                      | Drop test performed up to 2 m.   |
| Control box water and dust resistance | IP54   |
| Run time                              | 2 hours 30 min   |
| Startup time                          | < 1 minute   |
| Keyboard                              | Phosphorescent   |
| Connections                           | 3 metal ports for connecting headphones and camera   |
| Connections water and dust resistance | IP68   |
| Memory card                           | Slot for micro SD card for recording photos and videos   |
| Software updating                     | By specific LEADER USB stick   |
| Operating temperatures                | From -10° to +60°C   |
| Storage temperature                   | From -40° to +70°C   |
| 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   | 1000 candela/m2   |
| Backlighting | LED   |
| Colours      | 16-bit RGB  |
| Protection   | Transparent thermoplastic: 3 mm colourless scratch-resistant PMMA |
| Digital zoom | x2  |

# SEARCH CAMERA CHARACTERISTICS

| CAMERA HEAD                 |   |
|-----------------------------|---|
| Diameter                    | 47 mm for entering standard 51 mm 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 2 m when plug fitted to camera unit (waterproof mode)         |
| Lighting type               | 8 LEDs with 8 levels of illumination.                                 |
| Microphone/loudspeaker      | Integrated into camera head for half-duplex communication with victim |
| Response frequency          | 300 Hz to 3500 Hz   |

| CAMERA         |                        |
|----------------|------------------------|
| Type of optics | Lens                   |
| Lens           | Scratch-proof sapphire |
| Focal length   | F = 3mm fixed          |
| Opening        | 90°                    |

| POLE                             |  |                                    |
|----------------------------------|--|------------------------------------|
|                                  | 2.4 m version  | 4 m version                        |
| Material                         | Carbon fiber   |                                    |
| Dimensions                       | Retracted: 1.10 m<br>Extended: 2.40 m  | Retracted: 1.10 m<br>Extended: 4 m |
| Weight                           | 1.4 kg   | 2 kg                               |
| Removable pistol grip            | Yes  |                                    |
| Pole/control box mounting system | Yes, intended location at the back of the control box to fix an "articulated arm" which will allow the user to link the control box at the pole. |                                    |

| NOISE-REDUCING HEADPHONES                                |   |
|--|---|
| Weight   | Approx. 430 g   |
| 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 6.5 x W 13 x H 3 cm                                |
| Weight                                 | 280 g  |
| 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                   | 0° to +45°C  |
| Water and dust resistance              | IP54   |
| Battery compatible and interchangeable | Yes with LEADER Search, LEADER Scan and LEADER Hasty |
| Charge level indication                | Continuously displayed on control box screen         |

| CHARGER + TRANSFORMER             |                           |
|-----------------------------------|---------------------------|
| Charger dimensions                | H 10.5 x W 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                      |   |
|---|---|
| Dimensions                              | L 6.5 x W 13 x H 3 cm   |
| Weight with 10 batteries (not supplied) | 300 g   |
| Type and number of batteries required   | 10 x AAA-LR03 lithium batteries                                 |
| Run time                                | Approx. 1 h 30 m depending on the standard cell batteries brand |

## TRANSPORT CASES / 4 models

|                            | LEADER Cam                                 | LEADER Cam with articulated camera on 90m reel | LEADER Cam with waterproof camera on 90m reel | LEADER Cam with articulated camera on 2 reels of 90m (180m total length) |
|----------------------------|--|--|---|--|
| Ref                        | D11.04.342                                 | D11.04.344                                     | D11.04.345                                    | D11.04.366   |
| Material                   | Rigid impact-resistant polypropylene shell |  |   |  |
| Suitable for air transport | Integral pressure equalising valve         |  |   |  |
| Dimensions                 | H18 x W 43 x L121 cm                       | H51 x W25 x L64 cm                             |   | 2 cases of H51 x W25 x L64 cm  |
| Empty weight               | 7.80 kg                                    | 7,95 kg  |   | 15,9 kg (7,95 kg x2 cases)   |
| Loaded case weight         | 14 kg                                      | 23 kg  | 23,5 kg                                       | 46 kg (23 kg x2 cases)   |
| Water and dust resistance  | IP67                                       |  |   |  |
| Number of wheels           | 2  | On request                                     |   |  |