



# LEADER Cam

Compact, lightweight and ergonomic

## SEARCH CAMERA WITH BUILT-IN COMMUNICATION SYSTEM



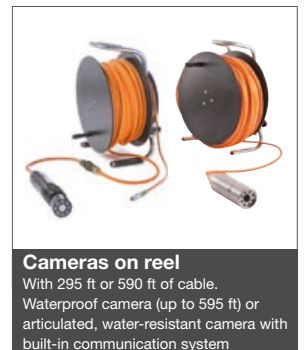
### KEY POINTS

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

### INCLUDED ACCESSORIES :



### OPTIONAL ACCESSORY :



# THE ADVANTAGES THAT MAKE THE DIFFERENCE

## AN ERGONOMIC CONTROL BOX :

- ▶ Lightweight and compact
- ▶ Extra-wide color 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* 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 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 6.5 ft when camera fitted with plug
- ▶ Adjustable LED lighting with 8 intensity levels



### ULTRA LIGHTWEIGHT TELESCOPIC POLE :

- ▶ Telescopic from 3.6 ft 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-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 (7.9 ft) | 1 control box<br>+ 1 pole (13.1 ft) | 1 control box<br>+ 1 articulated<br>camera<br>on 295 ft reel | 1 control box<br>+ 1 articulated<br>camera<br>on 590 ft reel | 1 control box<br>+ 1 water-resistant<br>camera<br>on 295 ft 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 7.9 ft telescopic pole                             | 1                                  | 0                                   | 0  | 0  | 0  |
| Articulated camera on 13.1 ft telescopic pole                            | 0                                  | 1                                   | 0  | 0  | 0  |
| Articulated camera on 295 ft reel  | 0                                  | 0                                   | 1  | 0  | 0  |
| Articulated camera on 295 ft reel<br>+ 295 ft extension on a second reel | 0                                  | 0                                   | 0  | 1  | 0  |
| Non-articulated camera (water-resistant to 295 ft) on 295 ft 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 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   |
| 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 +14° to +140°F  |
| Storage temperature                   | From -40° to +158°F  |
| 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 <sup>2</sup>  |
| Backlighting | LED   |
| Colors       | 16-bit RGB  |
| Protection   | Transparent thermoplastic: 0.12 inch colorless scratch-resistant PMMA |
| Digital zoom | x2  |

# SEARCH CAMERA CHARACTERISTICS

| CAMERA HEAD                 |   |
|-----------------------------|---|
| 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 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 = 0.12 inch fixed    |
| Opening        | 90°                    |

| POLE                             |  |  |
|----------------------------------|--|--|
|                                  | 7.9 ft version   | 13.1 ft version                        |
| Material                         | Carbon fiber   |  |
| Dimensions                       | Retracted: 3.6 ft<br>Extended: 7.9 ft  | Retracted: 3.6 ft<br>Extended: 13.1 ft |
| Weight                           | 3.1 lbs  | 4.4 lbs                                |
| 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. 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 2.5 x W 5.1 x H 1.2 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 Scan and LEADER Hasty |
| Charge level indication                | Continuously 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 m depending on the standard cell batteries brand |

## TRANSPORT CASES / 4 models

|                            | LEADER Cam                                 | LEADER Cam with articulated camera on 295 ft reel | LEADER Cam with waterproof camera on 295 ft reel | LEADER Cam with articulated camera on 2 reels of 295 ft (590 ft 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 equalizing valve         |   |  |   |
| Dimensions                 | H 7.1 x W 16.9 x L 47.6 inch               | H 20.1 x W 9.8 x L 25.2 inch                      |  | 2 cases of H 20.1 x W 9.8 x L 25.2 inch                                       |
| Empty weight               | 17.2 lbs                                   | 17.5 lbs  |  | 35 lbs (17.5 lbs x2 cases)  |
| Loaded case weight         | 30.9 lbs                                   | 50.7 lbs  | 51.8 lbs   | 101.4 lbs (50.7 lbs x2 cases)   |
| Water and dust resistance  | IP67                                       |   |  |   |
| Number of wheels           | 2  | On request  |  |   |