



LEADER Cam

Search Camera with Communication



Visualize and communicate with buried victims

- Developed with technical search specialists, LEADER Cam is used during rescue operations to **visually locate and communicate with trapped victims in inaccessible areas** located at height or in **difficult confined spaces to access** such as rubble, wells, crevices, cavities, etc...
- LEADER Cam is equipped with an **extra-large full color screen**, an **ergonomic graphic interface** and an **ultra-lightweight and resistant telescopic camera probe** in carbon fiber. These elements combined with **its compact and lightweight design** make the LEADER Cam an ideal tool for search for one or two operators.
- Specially designed to visualize victims, to communicate with them and evaluate and monitor their condition.



- Allows to visualize and communicate with buried victims
- Compact, lightweight and ergonomic
- Intuitive navigation interface
- Extra-large full color screen
- Meets the operational requirements of the world's leading Search and Rescue Teams (INSARAG, TFT, USAR Teams, NGOs, etc...)



LEADER
Tomorrow's technology today

COMPOSITION BY REFERENCE



Contents	1 control box + 1 probe of 2,4m (7,87')	1 control box + 1 probe of 4m (13,1')
	Ref : D11.04.342	Ref : D11.04.343
Control box	1	1
Noise reducing headsets	1	1
Sunshade	1	1
Camera head on telescopic probe of 2,4 meters (7,87')	1	0
Camera head on telescopic probe of 4 meters (13,1')	0	1
"Articulated fixing" (to mount the control box on probe)	1	1
Neck strap	1	1
Hand strap	1	1
Waterproof cap (waterproofing accessory of the camera)	3	3
Battery	1	1
Charger	1	1
Adapters kit for international connections	1	1
Spare clam shell battery pack (without batteries)	1	1
SD Memory card - Photos / Videos (Under development)	1	1
Waterproof carrying case	1	1
User manual	1	1

GENERAL FUNCTIONS

FUNCTIONS	SEARCH CAMERA MODE
2x Digital zoom	Yes
Headset(s) volume	Yes
Microphone headset volume	Yes
Push to Talk	Yes
Adjustable brightness of the screen	Yes
Right or left handed operation	Yes
Indicator of the battery charge level	Yes
Screen rotation top (0°), bottom (180°),	Yes
Taking pictures	Yes
Video recording (without sound)	Yes
Audio recording (sounds recording of the communication probe)	Under development
Photo and video gallery: visualization of data	Yes

CHARACTERISTICS OF CONTROL BOX

CONTROL BOX	
Dimensions	L 24 x W15,2 x H 5,1 cm - L 9,45" x W 6" x H 2"
Control box weight without battery	1,1 kg - 2,43 lbs.
Control box weight with battery	1,380 kg - 3 lbs.
Control box material	Polypropylene
Anti-shock bumper	Rubber belt on the thickness
Shock resistance	Drop test performed up to 2 m (6,56')
Control box water & dust resistance	IP54
Autonomy	2 hours and 30 minutes
Starting time	< 1 minute
Keyboard	Phosphorescent
Connections	3 metal connectors for headsets and camera connections
Connections water & dust resistance	IP68
Memory card	Intended location for micro SD card for recording photos and videos
Software update	By LEADER specific USB key
Operating temperatures	-10° to +60°C
Storage temperatures	-40° to +70°C
"Articulated fixing" control box /probe	Yes, intended location at the back of the control box to fix the "articulated fixing" which will allow to link the control box at the probe

SCREEN	
Type	LCD - TFT type
Resolution	7" - 800 x 480 pixel WVGA
Brightness	1000 candela /m2
Backlight	LED
Colors	16 bits RGB
Protection	transparent thermoplastic : PMMA colorless 3 mm (0,12") anti-abrasion
Digital zoom	x2



LEADER Cam - ZF.08.248.EN.1



As part of our policy of constantly researching to improve our equipment, we reserve the right to change the characteristics of our apparatus at any time without prior notice.



CHARACTERISTICS OF SEARCH CAMERA

CAMERA HEAD	
Diameter	47mm (1,85") to fit with 51mm (2,0") standard hole
Articulation of the camera	170° (85° on the right and 85° on the left)
Field of vision	260° in total
Type of articulation	Motorized electric rotation
Control of the camera articulation	From the control box
Water & dust resistance	Yes, up to 2m (6'6") when the camera head is equipped with waterproof caps)
Type of lighting	8 LED with 8 levels of illumination intensity
Microphone / speaker	Integrated at the camera for 2-way communication with victims
Frequency of response	300 Hz to 3500 Hz

CAMERA	
Type of optics	Lens
Lens	Durable scratch resistant sapphire
Focal length	F = 3mm fixe
Opening	90°

PROBE		
	2,4 m (7,87') version	4 m (13,1') version
Material	Carbon fiber	
Dimensions	Folded : 1,10m - 3,6' Unfolded : 2,40m - 7,9'	Folded : 1,10m - 3,6' Unfolded : 4m - 13,1'
Weights	1,4 kg - 3,1 lbs.	2 kg - 4,4 lbs.
Removable pistol grip	Yes	
Fixing system : control box/probe	Yes, intended location at the back of the control box to fix the "articulated fixing" which will allow to link the control box at the probe	

NOISE REDUCING HEADSETS	
Weight	430 gr - 948 lbs.
Type of the sound system	Stereo
Integrated microphone	Yes, to communicate with victims in search camera mode
Hearing protection NRR (Noise Reduction Rating)	23 dB
Number of headsets can be connected simultaneously	2 headsets can be connected simultaneously. The second headset is optional (included with a Y connector to connect two pairs of headsets on the same control box).

POWER SUPPLY

CONTROL BOX BATTERY	
Dimensions	L 6,5 x W13 x H 3 cm - L2,56"xW5,12"xH1,18"
Weight	280 gr - 0,62 lbs.
Type	4 cell Lithium Ion Polymer. 37 Wh
Capacity	2500 mA.h
Autonomy	2 hours and 30 minutes
Charging time	3 hours and 30 minutes
Recharge cycles	500
Charging temperature	0 to + 45°C
Water & dust resistance	IP67
Compatible and interchangeable battery	Yes with LEADER Search and LEADER Hasty
Battery charge level indication	Permanently displayed on the screen of control box

CHARGER + TRANSFORMER	
Charger dimensions	H10,5 x W4,5 x L3,5 cm - H 4,13" x W 1,77" x L 1,38"
Charger weight	200 gr - 0,44 lbs.
Input voltage of the charger	100 = 240 VAC / 50-60 Hz
Adapter kit for international connections	Yes : UK, EU, AUS, USA

SPARE CLAM SHELL BATTERY PACK	
Dimensions	L 6,5 x H 13 x W 3 cm - L 2,56"x H 5,12"x W 1,18"
Weight with 10 AAA standard cell batteries (not included)	300 gr - 0,66 lbs.
Type and number of standard cell batteries to use	10 AAA alkaline standard cell batteries LR03
Autonomy	Approx. 1:30 depending of the batteries brand



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ACCESSORIES / OPTIONS

CARRYING CASE	
Material	Hard shell anti shock polypropylene
Suitable for air transport	Integrated balancing pressure valve
Dimensions	H18 x W43 x L121 cm - H7,1" x W17"x L4'
Empty weight	7,80 kg - 17,2 lbs.
Weight of the bag charged	14 kg - 30,9 lbs.
Water & dust resistance	IP67
Number of castors	2
Color	Orange

NECK STRAP	
Reference	200 63 03
Material	Braided fabric provided with fixing hooks
Length	120 cm - 4 ft.

HAND STRAP	
Reference	200 61 97
Material	Braided fabric
Adjusting system	Velcro

REMOVABLE ARTICULATED ARM	
Reference	200 66 21
Function	"Fixing system : control box/probe
Material	Articulated rigid metal spring
Weight	250 gr - 0,55 lbs.

SUNSHADE	
Reference	D11.04.339
Material	Thermoformed foam with elastic straps for attaching on the control box

NOISE REDUCING HEADSETS	
Reference for 1 headset only	200 63 82

WATERPROOF CAPS	
Reference	200 38 45
Function	Makes waterproof the camera head
Material	Plastic + gasket

OPTIONAL SECOND NOISE REDUCING HEADSETS (the unit)	
1 headset included with a Y connector to connect simultaneously 2 headsets on the control box	Ref. : D11.04.340

CAMERA ON REEL (The unit)	
Adjustable and detachable camera with 90m cable on reel	D11.04.346

WATERPROOF CAMERA ON REEL (The unit)	
Waterproof camera (not orientable) up to 90m depth with 90m of cable reel	D11.04.347

BATTERY (the unit)	
Reference	D11.04.341
Type	4 cellules Lithium Ion Polymer. 37 Wh
Weight	300 gr - 0,66 lbs.

EXTENSIONS	
25m cable	D11.04.356
90m cable on reel	D11.04.348
Connectors	Metallic
Type of cable	Abrasion-resistant orange cable

SPARE CLAM SHELL BATTERY PACK (the unit)	
Reference	200 56 58
Weight with 10 AAA standard cell batteries (not included)	300 gr - 0,66 lbs.



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