

Portable waterproof video inspection system

SCUBAR Art.No. 3800100



The system consists of a fully adjustable camera module which can be used as a handheld tool or plugged into a telescopic boom for extended searches. The camera itself is a high resolution CCD device with built in LED illumination, protected by a tough rubber boot. Images are viewed on a 5.6" TFT screen that can either be worn by the user or placed on the ground. A number of monitor case / telescopic pole options are available as well as different colour schemes for different applications. The unit also has a video output facility. A miniature digital video recorder is available as an option.

Applications

Scubars primary purpose is to provide search and inspection facility in situations where health and safety issues are apparent or where accessibility is an issue. Examples include:

● Marine

In the marine industry, Scubar was originally used by marine engineers and surveyors when examining the condition of boats or checking for damage. Usually, such an operation required paying for divers or lifting the boat out of the water, both solutions costly and carried a degree of risk. Scubar allowed marine professionals to carry out inspections immediately and with no recurring cost. Recorded images could be taken for scrutiny and even presented to the customer.

Marine charter companies soon realized that they could inspect their boats after each charter and make charges for any damage found. Marina operators also saw the benefits of being able to inspect pontoons, piles and swinging moorings, and offer Scubar for rental to birth holders.

● Fire Search and Rescue

In the UK, Fire, Search and Rescue authorities use Scubar to aid sub-surface searches and for urban search and rescue (USAR) applications. Scubar has been specified as part of the New Dimensions Scheme

● Police Authorities and Security services

Scubar is used by a number of Police authorities for a range of operations, such as searching drains and culverts, roofs and guttering, loft and roofing spaces for discarded weapons, narcotics and even suspects. The flexible camera neck means it is also perfect for under vehicle inspections. Again, the recording facility is invaluable.

● Coastguards / Customs & Excise

Allows checks for contraband hidden below the waterline or towed behind the boat. When used as a handscope Scubar is also used for looking into tanks and containers.

System Specifications

Technical Specifications: Camera Module:

Horizontal Resolution:

470 TVL

Imaging:

1/3" Super HAD Colour CCD

Pixels	:	752(H) x 582(V)
TV System:		PAL / NTSC
Scanning:		2:1 Interlaced
Scanning Frequency:		H: 15.625 khz / V: 50hz
Synchronization:		Internal
Output Signal:		Composite Video 1vPP – 75 ohms
Sensitivity:		0.1 lux (f1.4) 0.0 lux at LED ON condition
Shutter Speed:		1/50 ~ 1/10,000 sec.
Gain Control:		Automatic
Burst:		40 IRE
Lens:		Standard f = 6mm / variations available on request
LED:		6 x White LED
Power:		12vdc 250mA
Operating Temp:		-10 to +60 degrees
Dimensions:		37mm dia x 82mm length. Flexible
neck/handle = 12"/12"		
Environmental Rating:		IP68 to 10 meters
Signal / Noise:		48db or more (AGC off)
Gamma:		0.45
Weight:		120g

Technical Specifications: Monitor

TV System:	PAL / NTSC
Video Input:	Composite Video 1vPP 75 Ohms
Power:	12vdc 450mA 2 x SLA Batteries 6v / 1.3 Ah
Operating Temperature:	-10 to +60 degrees
Screen Size:	5.6" Diagonal
Display:	TFT Active Matrix
Resolution:	960 (h) x 234 (v)
Viewing Area:	115.2(w) x 84.2(h)mm
Weight:	600g (separate from case)

Technical Specifications: Telescopic Poles

Material:	Glass Fibre Tube / Polyurethane grips
Sections:	3 stage telescoping pole
Dimensions:	1.5m – 4m / 3m to 10m
Overall Weight:	Std = 1.25kg loaded / 10m version = 3.5 kg loaded.

Accessories / Options

Camera Heads:

- Camera / Second LED light unit
- Camera / Magnet Attachment
- Extended Flexible Neck Camera Unit

Monitor Options:

- Standard Canvas / Foam Lightweight Case
- Rugged Storm Case – Fully Waterproof / Reinforced Connectors
- 10.4" Monitor / Storm Case

Recording:

- Compact / Lightweight MP4 Media Player with Digital Recording