



SST-1370

**COMBINED VIDEO
& LIGHTING SYSTEM**

**EXTREMELY DURABLE
TITANIUM HOUSING**

**RATED TO 750
METERS**

**CRISP, WIDE-ANGLE
IMAGE**



The SST-1370 video camera is the newest addition to DeepSea's rugged video inspection series. Packed into a housing less than 1.5 in. (3.48 cm) in diameter is a 1/4" monochrome CCD and powerful lighting system. The SST-1370 is designed to withstand the rigors of day-to-day inspection in areas where environmental and mechanical shock are expected and unavoidable.

Features that contribute to SST-1370 durability and reliability include a titanium housing and a sapphire crystal lens port (where the camera looks through). The housing will not wear in contact with tough materials, such as cast iron, and the lens port can only be scratched by diamond or carbide. Thirty-five bright-red LEDs protected by a smooth, chip and crack resistant window provide powerful, virtually indestructible lighting for the life of the camera. The 1/4" lens is fixed-focus, meaning there are no moving parts to break loose or wear. Each SST-1370 is pressure-tested and guaranteed to 750 meters (2,460 ft.) underwater. The video signal travels up to 2,000 ft. (600 meters) over triax cable.

The SST-1370 has applications in pipe inspection, borehole inspection, water wells, fixed-mount monitoring (such as underwater valves), tank and void inspection, and security and safety monitoring in water-based entertainment and architectural installation. It is suitable wherever a compact camera with built-in lighting is the best solution.

The SST-1370 comes with a mounting bracket and mating connector on an 18-inch (0.5m) whip. The whip can be molded at DeepSea on RG-59 triax or a micro-triax with a tough kevlar braid. Camera and LED repairs can be done within 24-48 hours.

SST-1370 Combined Video & Lighting System

Specifications			
Video		Electrical	
Image Sensor	¼" CCD image sensor	Power	8.7 to 13.2 volts DC
Number of Pixels	512 (H) x 492 (V)	Current	110 mA (camera), ~290 mA with LEDs
Resolution (TV lines)	380 (H) x 350 (V)	Connector	740-055-004
Lens	2 mm fl, f3.5	Environmental	
Focus	Fixed focus, factory set	Operating Temperature	-10 C to 50 C (14 F to 122 F)
Min. Depth of Field	½-inch	Depth Rating	750 meters (2,460 ft)
Scene Illumination	0.5 lux	Weight air/water	85 g/70 g (3.0 oz/2.5 oz)
Field of View in Air	111 (H) x 95 (V) x 122 (D) deg.	Mechanical	
Field of View in Water	76 (H) x 67 (V) x 82 (D) deg.	Camera Diameter	3.48 cm (1.37 in)
Lighting	35 red LEDs with variable intensity	Camera Length	5.00 cm (2.00 in), excluding collar (included)
Video Output	1.0 volt, peak-to-peak, at 75 ohm	Housing Materials	Sapphire crystal lens port. Impact-resistant LED window. Titanium housing.
Video Format	Monochrome; EIA or CCIR		
Shutter	Electronic, automatic		

Cables					
Camera Connector	Cable Type	Length	Dry-End Termination		
740-055-004: Also available as un-terminated whip.	RG-59 Triax (TRI): 75 ohm video cable with polyethylene jacket.	0-1000 feet: Price is per-foot. Contact DeepSea for pricing.	TOP/SS: Standard. Also available on unterminated 18" whip.		
	Kevlar Triax (KTRI): 75 ohm video cable with internal kevlar braid and polyurethane jacket.		Other: Please contact DeepSea with requirements.		
How to Order: 740-055-004) – (_____) – (_____) – (_____)					

Power & Viewing

SST-1370 heads are ideally suited to work as a system with our family of controllers, which include the ability to vary the LED light intensity, view the image with high resolution monitors, output the video signal to other monitors and VCRs, or make video recordings with *Hands-Free* audio overlay.

Power+	(P+) 120 vac/60 Hz (or 220 vac/50 Hz) to ~12 vdc power supply. Includes direct connection for SS3ILMP terminated cables. RCA video output interfaces with customer-supplied monitors and VCRs. Variable LED intensity controller allows fine adjustment of lighting for different conditions. A Ground Fault Circuit Interrupt (GFCI) is included on the AC cord for added safety.
Monitor+	(M+) A P+ with high-resolution surveillance monitor (>850 TV lines) enclosed in a rugged, aluminum case. A metal sunshade folds down to protect the CRT screen and front panel controls during transport. A tilt-stand improves viewing angle when system is on the ground. Includes direct connection for TOP/SS-terminated cables. Variable LED intensity controller allows fine adjustment of lighting for different conditions. Video in/out jacks allow hook up to external devices such as VCRs, camcorders and other remote monitors. A Ground Fault Circuit Interrupt (GFCI) is included on the AC cord for added safety.
Monitor+VCR	(M+VCR) (Release pending) An M+ with added VHS VCR and <i>Hands-Free</i> audio recording. Video/audio out jacks, CB mike input jacks, front-panel wireless microphone and playback speaker, one-button monitor/record/play.



Specifications subject to change without notice

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