



Multi-Sea Cam

COLOR OR B&W

6000 METER (ROV) OR

**300 METER (DIVER)
VERSION**

**TITANIUM OR
DELRIN HOUSING**

**SCRATCH-RESISTANT
SAPPHIRE PORT**

**INTERCHANGEABLE
CAMERA MODULES**



The Multi-SeaCam is a versatile camera designed to meet all your needs, whether for deep ROV or shallow diver applications. One housing and mounting system accepts two different video camera cartridges, either black & white or color. This enables you to standardize all your applications with one electrical and mechanical interface. Best of all, you can easily change camera cartridges in the field by removing a snap ring, allowing you to upgrade or repair in minutes.

Both housing types offer superior corrosion resistance. The ROV version is made from titanium, and is rated to 6,000 meters (20,000 feet). The diver version is made from black Delrin, and is rated to 300 meters (1,000 feet). A scratch-resistant sapphire port make the Multi-SeaCam one of the toughest, most durable cameras in the underwater industry.

All camera versions come with DeepSea's acclaimed wide angle, fixed focus optics. Focusing as close as 10 centimeters (4 inches), the Multi-SeaCam is easy to operate.

Identification of camera features in the field is simplified by the use of a label under the sapphire port that indicates such features as model type, depth rating, video format, and pin-out. It's essentially a "manual on a label." Serial numbers are laser-engraved on the housing for inventory tracking.

For diver applications, the Multi-SeaCam can be mounted on a SuperLite 17 or 27 helmet using DeepSea's Universal Helmet Mounting Bracket. It also mounts to DeepSea's Universal Hand Grip for hand-held operation. Working in tandem with any of DeepSea's world-class underwater lights (such as the Multi-SeaLite or Mini-SeaLite), the Multi-SeaCam provides the optimal underwater video solution.

Multi-SeaCam Specifications

	MULTI-SEACAM 1050	LOW LIGHT MULTI-SEACAM	MULTI-SEACAM 2050
MECHANICAL			
Housing:	Delrin or titanium	Delrin or titanium	Delrin or titanium
Port:	Sapphire	Sapphire	Sapphire
Outer Diameter:	4.74 cm (1.87 in.)	4.74 cm (1.87 in.)	4.74 cm (1.87 in.)
Overall Length:	12.95 cm (5.10 in.)	12.95 cm (5.10 in.)	12.95 cm (5.10 in.)
Weight in Air--Delrin:	296 g (10.5 oz.)	296 g (10.5 oz.)	296 g (10.5 oz.)
Weight in Air--Titanium:	459 g (16 oz.)	459 g (16 oz.)	459 g (16 oz.)
Weight in Water--Delrin:	56 g (2 oz.)	56 g (2 oz.)	56 g (2 oz.)
Weight in Water--Titanium:	112 g (4 oz.)	112 g (4 oz.)	112 g (4 oz.)
OPTICAL			
Lens:	2.8 mm, f2.8	5 mm, f2.8	2.9 mm, f1.8, wide angle
Focus:	Fixed focus, wide angle	Fixed focus	Fixed focus, wide angle
Depth of Field:	10 cm (4 in.) to infinity	30 cm (12 in.) to infinity	10 cm (4 in.) to infinity
Field of View in Air:	106 deg. (H) x 78 deg. (V) x 149 deg. (D)	77 deg. (H) x 56 deg. (V) x 98.3 deg. (D)	108 deg. (H) x 92 deg. (V) x 120 deg. (D)
Field of View in Water:	77 deg. (H) x 59 deg. (V) x 98 deg. (D)	57 deg. (H) x 44.6 deg. (V) x 70.5 deg. (D)	75 deg. (H) x 65 deg. (V) x 81 deg. (D)
VIDEO			
Image Sensor:	1/3-inch CCD image sensor	1/2-inch CCD image sensor	1/3-inch CCD image sensor
Number of Pixels:	537 (H) x 505 (V) (EIA); 537 (H) x 595 (V) (CCIR)	811 (H) x 508 (V) (EIA); 795(H) x 596 (V) (CCIR)	768 (H) x 494 (V) (NTSC); 752 (H) x 582 (V) (PAL)
Resolution:	400+ TV lines horizontal	570 TV lines horizontal	460 (H) x 400 (V) (NTSC); 450 (H) x 450 (V) (PAL)
Scene Illumination:	0.27 Lux at f2.8	0.01 Lux at f2.8	8 Lux at f1.8
Signal to Noise:	More than 45 dB (AGC off)	46 dB (AGC off)	50 dB (AGC off)
Video Output:	1.0 volt peak-to-peak at 75 ohm	1.0 volt peak-to-peak at 75 ohm	1.0 volt peak-to-peak at 75 ohm
Video Format:	EIA (RS170), CCIR	EIA (RS170), CCIR	NTSC, PAL, composite standard, Y/C optional
ELECTRICAL			
Power:	11-30 volts DC	11-30 volts DC	11-30 volts DC
Current:	110 mA	160 mA	300 mA
Connector:	Impulse: BH4MP, LPBH4MP, MSSJ-9-BCR, IE55-1508/2008; Burton: 5507-1508/2008; Call for others	Impulse: BH4MP, LPBH4MP, MSSJ-9-BCR, IE55-1508/2008; Burton: 5507-1508/2008; Call for others	Impulse: BH4MP, LPBH4MP, MSSJ-9-BCR, IE55-1508 & 2008; Burton: 5507-1508 & 2008; Call for others
Pin-out:	1 = Ground, 2 = Power, 3 = Video (standard)	1 = Ground, 2 = Power, 3 = Video (standard)	1 = Ground, 2 = Power, 3 = Video (standard)
ENVIRONMENTAL			
Depth:	Delrin: 300 meters Titanium: 6,000 meters	Delrin: 300 meters Titanium: 6,000 meters	Delrin: 300 meters Titanium: 6,000 meters
Operating Temperature:	-20 deg. C to +40 deg. C	-10 deg. C to +40 deg. C	-10 deg. C to +50 deg. C
Storage Temperature:	-30 deg. C to +70 deg. C	-30 deg. C to +70 deg. C	-10 deg. C to +50 deg. C



Specifications subject to change without notice

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