



Multi *SeaCam*®

COLOR (IMPROVED SENSITIVITY), B&W OR LOW LIGHT B&W

6000 METER (ROV) OR 300 METER (DIVER) VERSION

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 three different video camera cartridges, either black & white, low light black & white or our newest color cartridge with improved sensitivity. 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.

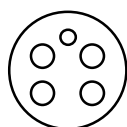
Multi SeaCam® Specifications



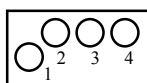
	Multi SeaCam® 1050	Multi SeaCam® 1060	Multi SeaCam® 2060
MECHANICAL	Black and white	Low light	Color Module
Housing:	Delrin or titanium	Delrin or titanium	Delrin or titanium
Port:	Sapphire	Sapphire	Sapphire
Outer Diameter:	4.74 cm (1.87 in.)	4.74 cm (1.87 in.)	4.74 cm (1.87 in.)
Overall Length:	12.95 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	3.0 mm, f2.0
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 deg. (D)	95 deg. (H) x 75 deg. (V) x 130 deg. (D)
Field of View in Water:	77 deg. (H) x 59 deg. (V) x 98 deg. (D)	57 deg. (H) x 45 deg. (V) x 71 deg. (D)	75deg. (H) x 60 deg. (V) x 85 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)	537 (H) x 505 (V) (NTSC); 537 (H) x 597 (V) (PAL)
Resolution:	400+ TV lines horizontal	570 TV lines horizontal	400+ TV lines horizontal
Scene Illumination:	0.27 Lux at f2.8	0.01 Lux at f2.8	0.2 Lux
Signal to Noise:	More than 45 dB (AGC off)	46 dB (AGC off)	More than 45 dB
Video Output:	1.0 volt peak-to-peak at 75 ohm	1.0 volt peak-to-peak at 75 ohm	1.3 volt peak-to-peak at 75 ohm
Video Format:	EIA (RS170), CCIR	EIA (RS170), CCIR	NTSC, PAL, composite standard
ELECTRICAL			
Power:	11-30 volts DC	11-30 volts DC	11-30 volts DC
Current:	110 mA	160 mA	200 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
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	-30 deg. C to +40 deg. C
Storage Temperature:	-30 deg. C to +70 deg. C	-30 deg. C to +70 deg. C	-30 deg. C to +70 deg. C

ELECTRICAL

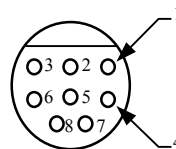
Pin-out:



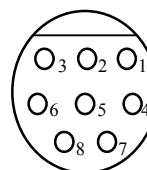
BH4MP
1 = Ground
2 = Power
3 = Video
4 = Not Used



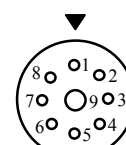
LPBH4MP
1 = Ground
2 = Power
3 = Video
4 = Not Used



IE55-1508-BCR
Or
B5507-1508
1 = Ground
2 = Power
3 = Video
4 = Not Used
5 = Not Used
6 = Not Used
7 = Not Used
8 = Not Used



IE55-2008-BCR
Or
B5507-2008
1 = Ground
2 = Video
3 = Hot
4 = Not Used
5 = Not Used
6 = Not Used
7 = Not Used
8 = Not Used



MSAJ-9-BCR
1 = Ground
2 = Power
3 = Video
4 = Not Used
5 = Not Used
6 = Not Used
7 = Not Used
8 = Not Used
9 = Not Used



Specifications subject to change without notice

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Rev. 3/11/04