



Micro *SeaCam*® 2002

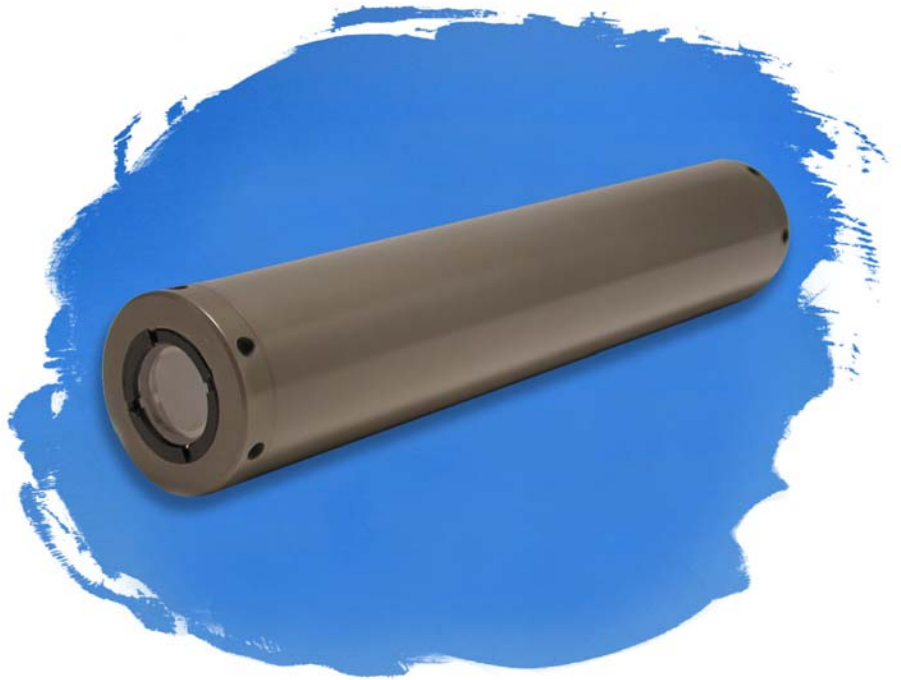
**High Performance
Miniature Camera**

Y/C Output Option

High Resolution

**External Sync
Capable**

6000m rated



The Micro **SeaCam**® 2002 is the successor to DSPL's popular MSC-2000. This new camera features greater sensitivity, RS-232 functionality, external sync capability, fixed focus, wide angle optics and a depth of field of 6in. to infinity.

Because of its small size and high performance, the Micro **SeaCam**® 2002 is suitable for applications where high resolution color images are required. Diver's helmets, ROV manipulator wrists, and ROV tether management systems are but a few of the places this camera can be used.

Contact DSPL for more information.

Micro SeaCam® 2002

MECHANICAL

Housing: Titanium 6AL-4V
Window Material: Sapphire
Outer Diameter: 3.15 cm (1.24")
Overall Length: 20.95 cm (8.25")
Weight in Air: 308 grams (10.87 oz)
Weight in Water: 266 grams (9.39 oz)

VIDEO

Image Sensor: ½ type IT CCD with complementary mosaic filter
Horizontal Resolution: 470 TVL
Effective Picture Elements: 768 (H) x 494 (V)
Sync System: Internal/External (automatic switching)
External Sync Signal: HD/VD (2 to 4 Vp-p) 75 ohms / VS (1Vp-p), 75 ohms/C Sync (2 to 4Vp-p), 75 ohms
Minimum Illumination: 3 lx. (F1.2, AGC on)
Lens: f3.5, fixed iris, fixed focus
External Sync Frequency Tolerance: VD/59.94 Hz +/- 0.0009 Hz, HD/15734 Hz +/- 0.22 Hz
S/N Ratio: 48 dB (AGC OFF (0 dB)
Shutter Speed: 4 speeds selectable: OFF, Flickerless, 1/1000 s, CCD iris
CCD Iris Range: Auto: 1/60 to 1/4000's / RS-232C: 1/60 to 100000 s
(The RS-232 switch is set to OFF at the factory.)
Max. speed is not guaranteed beyond 1/4,000's.
White Balance: 4 modes selectable: ATW (default), 3200 K, 5600 K, MANUAL
Gain Control: 2 modes selectable: AGC (default), Fixed (0 dB).
Gamma: ON/OFF* Controlled by RS-232 C
(The RS-232C Switch is set to OFF at the factory).
Angle of View in Air: 91 deg (H) x 66 deg (V) x 122 deg (D)
Angle of View in Water: 64 deg (H) x 47 deg (V) x 81 deg (D)
Video Output: VBS (default), Y/C (selected with the switch)/ VBS: 1 Vp-p, 75 ohms, sync negative / Y: 1 Vp-p, 75 ohms / C:C level depends on the composite video out signal
Video Format: NTSC or PAL

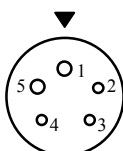
ENVIRONMENTAL

Depth: 6,000 meters (19,685 feet)
Operating Temperature: 0°C to 40°C (32°F to 104°F)
Storage Temperature: -30°C to 60°C (-22°F to 140°F). Installation and Operation.

ELECTRICAL

Power Requirement: 12-40 VDC
Power Consumption: 3.6W (300ma @ 12V)

Composite Video Pin-Out:



MSSJ-5-BCR
1 = Ground
2 = Power
3 = Video
4 = Not Used
5 = Not Used



Specifications subject to change without notice

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