

Miniature Color Camera With Integral LED Lighting

The **NOVA** is a miniature, color CCD video camera with an integral light ring. It is ideal for mounting on ROV manipulators, for down-hole video and for remote tooling applications where providing external lighting is difficult if not impossible.

It has a high resolution color CCD sensor providing outstanding picture quality and performance in a very compact housing. The integral light ring illuminates objects up to several meters away .

The camera has a fixed focus, wide angle lens and requires no external controls in normal operation. Optional control of the LED lighting can be provided. Ideal for applications where size is of critical importance, but high image quality is also a requirement.



Features

- ☐ High Resolution Color CCD Module
- ☐ Integral LED Light Ring
- ☐ Fixed Focus, Wide Angle Lens
- ☐ Extremely Compact Titanium Pressure Housing
- ☐ 4,000 Meter Depth Rating

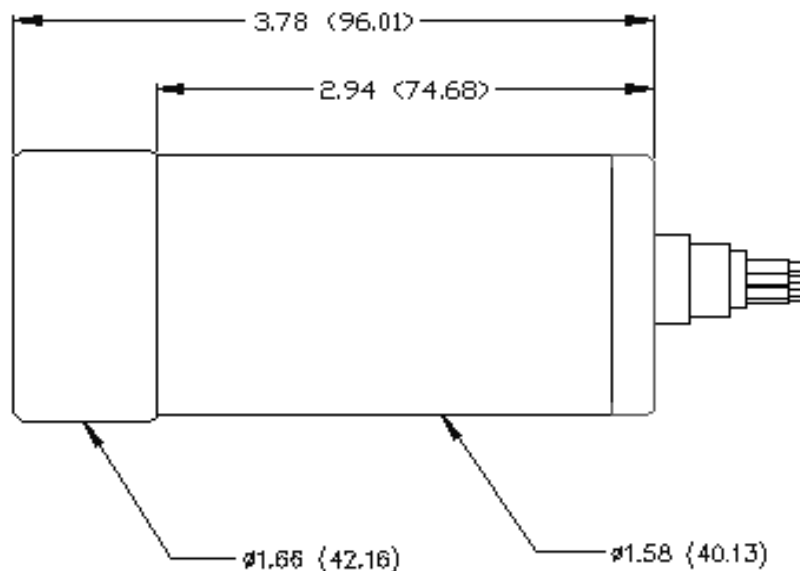
Applications

- ☐ ROV Manipulator Arm
- ☐ Remote Tooling Systems
- ☐ Diver Use
- ☐ Inspection ROV
- ☐ Leisure Marine



Insite Pacific - NOVA

Specification



All measurements in inches (millimeters)

Electrical

Sensor	1/3 Inch Interline Transfer CCD
Resolution	560 Horizontal TV lines
Sensitivity	Minimum Illumination 0.3 Lux (f1.8 40 IRE)
Iris	CCD Iris, 60Hz 1/60 to 1/100,000 Sec. 50Hz 1/50 to 1/100,000 Sec.
Signal to Noise Ratio	46 dB typical
Scanning System	PAL CCIR, 50Hz, 625 lines NTSC RS170, 60Hz, 525 lines
Video Output	Composite 1Vpp
Camera Power	12 to 30VDC at 175mA typical Specify voltage when ordering.

Optical

Lens	4.3mm
Focus Range	(6 inches) to infinity
Field of View	62° Diagonal 51° Horizontal 40° Vertical

Environmental

Depth	4000 meters (13,000ft)
Operating Temperature	-5°C to 50°C (23°F to 122°F)
Storage Temperature	-20°C to 71°C (-4°F to 160°F)

Mechanical

Pressure Housing	4000m Operating Depth Titanium Pressure Housing
Size	Refer to drawing for detailed dimensions
Length	9.7cm (3.82 inches) excluding underwater connector
Diameter	4.0cm(1.58 inches)
Weight in air	0.37kg (13oz)
Weight in water	0.26kg (9oz)
Housing Material	6AL / 4V Titanium
Pressure Window	Optically Polished Sapphire
Connector	Subcon MCBH3M other connectors optional

All specifications are subject to change in line with Insite Pacific's policy of continual product development.

Insite Pacific Inc.

742 Genevieve Street, Suite T, Solana Beach, CA 92075-2060, USA

Phone (858) 523-0642 Fax (858) 523-0643

Website: www.insitepacific.com Email: sales@insitepacific.com

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