

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 feet 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*

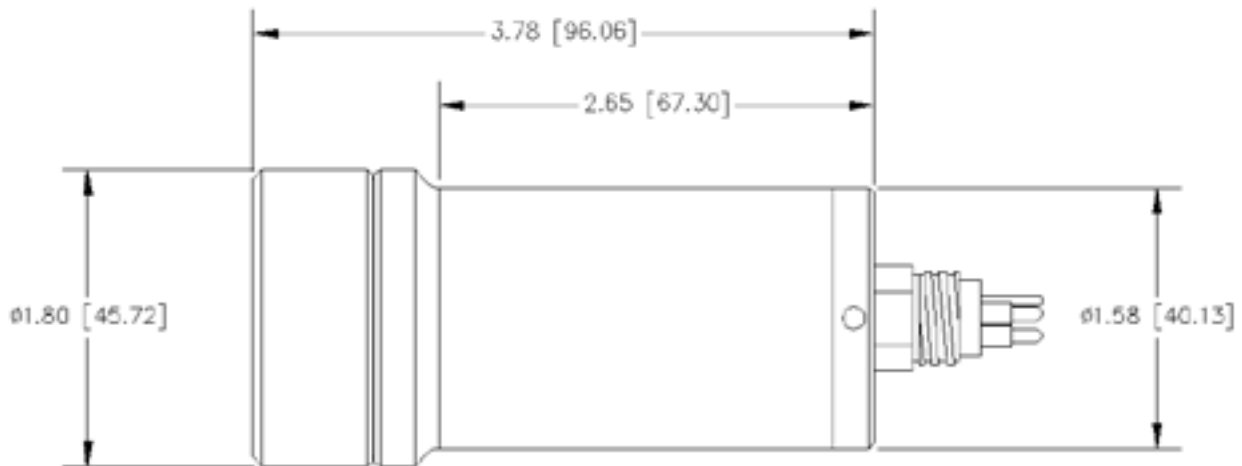
Applications

- ❑ *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 EXview HAD CCD II
Resolution	700 Horizontal TV lines
Minimum Illumination	0.001 Lux (Faceplate)
Iris	CCD Iris, NTSC 1/60 to 1/100,000 Sec. PAL 1/50 to 1/100,000 Sec.
Signal to Noise Ratio	>50 dB (AGC off)
Total Pixels	PAL (50Hz), 1020(H) x 596(V) NTSC (60Hz), 1020(H) x 508(V)
Video Output	Composite 1Vpp
Camera Power	15 to 30VDC at 175mA typical 12VDC Optional

Optical

Lens	4.3mm
Focus Range	178mm (7 inches) to infinity
Field of View	59° Diagonal 49° Horizontal 38° Vertical

Environmental

Depth	4000 meters (13,000ft)
Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°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	Customer specified

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

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