

INSPECTOR COLOR ZOOM CAMERA



18:1 optical zoom and 12x digital zoom with outstanding light sensitivity and resolution

65.9° diagonal field of view in water for superior wide-angle viewing

State of the art circuitry optimized for remotely operated inspection



High-quality, color zoom video camera designed for hazardous environments and deep water applications.

The INSPECTOR underwater color zoom camera provides 470 TV lines of resolution and 0.02 lux faceplate sensitivity. An 18:1 optical zoom lens and 12x digital zoom lens with automatic focus allows for flawless viewing without additional focal adjustments. The camera also features a superior 65.9° diagonal wide-angle field of view in water.

Depth rated to 3,000 meters, the INSPECTOR housing is made from the highest quality 6AL4V titanium. The camera is integrated with innovative long line amplifier circuitry that is actuated by a combination of the normal zoom and focus control lines, or via RS-232 communication while the camera is submerged and in operation.

The INSPECTOR is designed to be mounted to a fixed surface or as an integral part of a lighting and positioning system. This camera complements the MV-4000 lights and a PT-10 positioner to constitute a turn-key inspection system.

ROS has been manufacturing an array of harsh environment cameras, lights, positioners, and specialized systems designed for oceanographic, nuclear, industrial, and military applications for over 30 years

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INSPECTOR - Color Zoom Camera

ELECTRICAL

Horizontal Resolution:	470 TV Lines - NTSC	460 TV Lines - PAL
Faceplate Sensitivity:	0.02 lux - usable display	
	0.05 lux - full resolution	
Scene Illumination:	0.7 lux - full resolution	
Sensor Type:	1/4" EXview HAD CCD	
Signal to Noise:	> 50 dB	
Power Input:	11-30 VDC, 400 mA (max)	
Scanning:	525 line / 60 Hz - NTSC	625 line / 50 Hz - PAL
Video Output:	Composite, 1.0V peak to peak into 75 ohm	
	Y/C (S-Video) available	
Control Options:	Bipolar +/- 12 VDC input (standard)	
	Differential 12 VDC input (available)	
	Unipolar 12 VDC input (available)	
	RS-485 input (available)	
Long Line Compensation:	Externally adjustable by toggling control levels or via RS-485 communication	
Electro-Magnetic Compatibility:	EN50081-1 Emission / EN50082-1 Immunity	

OPTICAL

Optical Zoom:	18:1 (4.1 mm to 73.8 mm focal length)
Digital Zoom:	12x (216x with optical zoom)
Iris Control:	Automatic, f/1.4 - f/22
Focus Control:	Front window to infinity (wide angle)
	800 mm to infinity (full zoom)
Field of View in Air:	84.5° diagonal
Field of View in Water:	65.9° diagonal

MECHANICAL

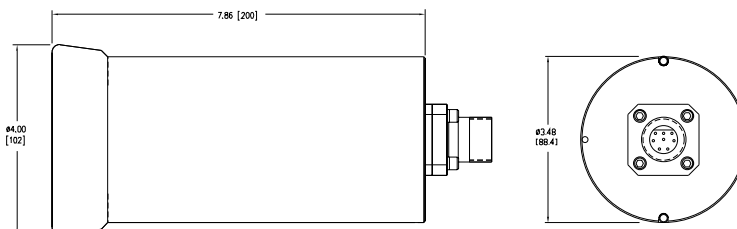
Housing Material:	6AL4V Titanium
Length (w/o connector):	200 mm (7.86 in)
Diameter Main Body:	88.4 mm (3.48 in)
Diameter Front End:	102 mm (4.00 in)
Weight in Air:	2.4 kg (5.2 lbs)
Weight in Water:	0.8 kg (1.7 lbs)
Viewing Port:	Optical grade acrylic
Standard Connector:	17 connector options available

ENVIRONMENTAL

Operating Depth:	3,000 m (10,000 ft) standard
	6,000 m (20,000 ft) available
Operating Temperature:	-5°C to 50°C (23°F to 122°F) in water
Storage Temperature:	-20°C to 60°C (-4°F to 140°F) in air

ROS STANDARD PIN-OUT

- 1 = Common
- 2 = Video
- 3 = Power
- 4 = Focus
- 5 = Zoom
- 6 = Exposure



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