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ROS 20/20 ICCD

HIGH PERFORMANCE, LOW-LIGHT-LEVEL SENSITIVITY, SPECIAL SPECTRAL RESPONSE AND MORE

[SPECIFICATIONS](#)

- Maximum performance
- Superior low-light-level sensitivity
- Special spectral response
- State-of-the-art image intensifier options
 - Gen II +
 - Gen II Ultra Blue
 - Gen II GaAs

ICCD vs. SIT

This custom designed video camera features the latest ICCD technology. Choose from a selection of state-of-the-art image intensifier options and maximize the specific performance characteristics required for your underwater viewing application.

The ROS 20/20 ICCD out performs the commonly used SIT camera. Depending upon the choice of intensifier, the ICCD is from 100 to 500 times more sensitive and can virtually see in starlight. The ICCD also offers greater blue/green spectral response. It is highly resistant to shock and vibration, is smaller in size and weight, and consumes less power.

PART OF A COMPLETE SYSTEM

Like our other ROS 20/20 Camera Systems, the ICCD complements our underwater lights and pan & tilts and can be part of a complete remotely operated video inspection system.

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	Gen III Ultra Blue
Voltage 11 - 30 VDC	Angle of View (diagonal) 06.5 mm: 110° 12.5 mm: 65° 25.0 mm: 35°
Current Gen II+, Gen III Ultra Blue or Gen III GaAsP 450 mA Nom., at 12 volts Gated Gen II+ 500 mA Nom., at 12 volts Gated Gen III Ultra Blue or Gen III GaAsP ICCD 600 mA Nom, at 15 volts Optional: Constant current (typically 50mA higher than above level)	NOTE: For extending the upper illumination range, lenses with a neutral density spot are available with effective f/no settings greater than 1000.
	Remote Focus Available with most lens assemblies
	Resolution 500 TV lines, horizontal 250 TV lines, vertical
Composite Video Output 1.0 volts P-P, nominal	Shades of Gray 10
Bandwidth 30 Hz to 8 MHz	Light Level Sensitivity (faceplate) Gen II+: -6 fc (10^{-5} lux) Gen III Ultra Blue: 3×10^{-7} fc (3×10^{-6} lux) Gen III GaAsP: 5×10^{-7} fc (5×10^{-6} lux)
Signal to Noise Ratio 45 dB minimum	NOTE: Other sensitivities available through intensifier selection. Gen III sensitivity is as high as 1×10^{-7} fc (1×10^{-6} lux).
Video Format Standard: EIA RS-170, 525 line, 60 Hz Optional: CCIR, 625 line, 50 Hz	Mechanical
Gamma 1.0 or .45 Option, remote control	Typical Size 3.75" (94 mm) diameter x 12.98" (329.7 mm) long
Gain, Auto 30 dB Option, remote control	Weight In air: 5 lbs (2.19 kg) In water: 2 lbs (0.875 kg)
Sync, Crystal Controlled Stability 0.001%	Material 6061-T6 aluminum Optional: Stainless steel or titanium
	Environmental
Automatic Genlock Auto lock when sync or video signal is received	Operating Depth 4920 feet (1500 m) Optional depths on request
External Sync Level	Temperature

0.6 to 2.0 volts P-P

Operating: -22° to +122° F (-30° to +50° C)
Storage: -31° to +140° F (-35° to +60° C)

Optical

Lens Mount

"C" Mount

Intensifier Input Image

Format

1"

Aspect Ratio

4:3

Specifications subject to change without notice.

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