

ROPOS

CANADIAN SCIENTIFIC SUBMERSIBLE FACILITY



Z9 Camera

Still/4K Video Camera

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Summary

The Z9 Camera is a high-performance, deep-rated digital camera solution designed for extreme marine environments. Capable of operating at depths of up to 5,000 meters, this system integrates the industry-leading Nikon Z9 with a versatile 28–135 mm zoom lens. Mounted on a precision tilt assembly 33° to 98° from horizontal, it provides exceptional coverage for seafloor mapping, biological surveys, and structural inspections, delivering ultra-high-resolution stills and live-streamed 4K video to the surface.

Key Features

- 5000 m depth-rated subsea housing
- Nikon Z9 full-frame camera system
- 28–135 mm zoom lens
- 45.7 MP stills + up to 8K RAW video
- 4K live feed to surface (up to 60 fps)
- Adjustable tilt (33°–98° from horizontal)

Specifications

Camera	
Max Resolution	8256 x 5504
Effective Pixels	45.7 MP
Sensor	Full Frame (35.9 x 23.9 mm) Stacked CMOS
Video Formats (Internal)	8.3K/60p RAW, 8K UHD/30p, 4K UHD/120p
Video Format (Live Feed)	4K UHD/60p
Internal Storage	4 TB
Lens	28–135 mm, 4.8X Zoom
Environmental	
Depth Rating	5,000 m
Operational Temperature	-10°C to 40°C
Electrical	
Voltage	24VDC
Connectors	Power: TrustLink PS BCRAMSSDB Telemetry: Optolink Single Fibre BCR Dry 7/16-20
Mechanical	
Housing	Titanium 6Al-4V
Mounting	Tilt mechanism: 33° to 98° (horizontal reference)