Rayfin Micro 500m ROV Camera

Real-time Digital stills | HD over Ethernet | Annotation | Image Enhancement

Experience unmatched performance in a compact, lightweight subsea camera with the Rayfin Micro. Designed for observation class ROVs, expect reliable and exceptional image quality for precise inspections and surveys. With real-time transfer of digital stills with strobe sync and live Ethernet HD video topside, overlay, data logging, and image enhancement. The Rayfin Micro has the versatility to get the required data you need to complete your project.

Image not to scale

Compact & Lightweight

Weighing less than 500g in water, the small form factor allows easy integration into your system, without sacrificing the quality you come to expect from a SubC Rayfin camera.

Fast High-Resolution Imaging

Rapid Digital Imaging (RDI) feature enables live images to be immediately stored topside in your standard file structure. Capture the sharpest images thanks to a scratch-resistant sapphire lens paired with water-corrected LiquidOptics™.

Low-Latency & Live Image Enhancement

Real-time, live HD with data annotation into video overlays. The Rayfin's focus range is optimized to eliminate foreground debris. Plus, live video image enhancement for clear visuals when visibility is compromised.

Real-time Topside Media & Data

No downloading required. Access your images and video immediately. Log crucial survey data with date and time stamps. GPS data embedded in EXIF enables geo-referenced images.
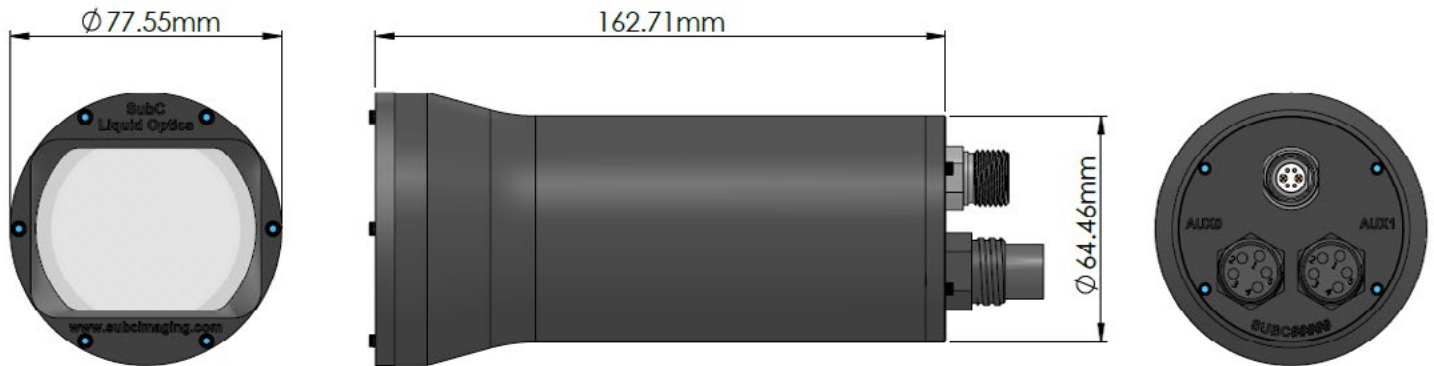
Upgrades & Enhancements

Add SubC LEDs for strobe and extra lighting, lasers for measurements, or a DVR for multi-channel capability. The Rayfin Micro is fully compatible with SubC's Blackbox for added peace-of-mind, and plugs into SubC's Real-Time Streaming to enable live monitoring and remote inspections.

Technical Specifications

Rayfin Micro 500m ROV Camera

Sensor & Lens	Lens and Optics	Water-corrected, scratch-resistant sapphire LiquidOptics™
	Angle of View *(in water)*	81˚ diagonal with less than 3.4% distortion
	Image Sensor	12.3MP | 4056 x 3040 pixels | 12-bit CMOS
	Zoom	Digital (5x Optical zoom equivalent)
	Focus Range	15cm to infinity
Data Formatting	Ethernet Video	RTSP H.264 - 1080p | 720p | *4K coming soon*
	Rapid Digital Imaging (RDI) — Continuous Stills	Configurable, 2Hz (2 per second) tp 0.1Hz (1 every 10 seconds)
	Rapid Digital Imaging (RDI) — Media Transfer	Real-time digital stills and data to topside over Ethernet. Stored on HDD, SSD or NAS
	Media Formats	Video: MPEG4, H.264, H.265 | Stills: JPEG | Data: CSV
	Control	Over Ethernet with provided SubC software | Rayfin API is available for 3rd party integration
	Data Logging	NMEA 0183 & 2000 format @ 10Hz
	Clock Sources	NTP Server, Time from Data string
Electrical & Mechanical	Aux Ports	2 ports, capable of powering and controlling LED Strobe/Lamps, Lasers and other devices
	Voltage & Maximum Power	12 - 32.5 Vdc @ 12Watts
	Protection	Short circuit | Under-over voltage | ESD | Over-temperature
	Temperature *(in water)*	-20˚C to +30˚C
	Depth Rating	500m
	Materials	Anodized 6061-T6 Aluminum, Delrin, Sapphire
	Weight *(in water)*	0.46kg
	Dimensions	Ø 77.5 | 165mm x 64.5mm

Ø 77.55mm

162.71mm

Ø 64.46mm

*Available in alternative bulkhead configurations

SubC is here to help you plan your next project.

Our equipment is available for direct purchase or rental.
To speak with an expert or schedule a demo please contact us.

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