Rayfin Single Channel Inspection

SubC Imaging

(Rayfin SCI)

Your Complete End-To-End Solution For Single-Channel Live Inspections and Surveys

Key Features:

- Real-time media & data transfer eliminates the need for downloads
- High-quality 12MP stills and video recording topside
- Organized data structure for immediate access in customizable files
- Automated logging includes date, time, GPS, sensor data, and embedded EXIF
- Rapid Digital Imaging (RDI) with adjustable capture rate up to 2Hz
- Integrated control for camera, LED, and laser management
- Enhanced documentation with live and recorded video overlay and annotation

Why Choose Rayfin SCI?

Efficient Data Handling: Real-time data transfer and automatic organization reduce redundancy.

Time and Cost Savings: Immediate access to topside data, automated logging reduces human resources.

Improved Visibility and Quality: Faster, more accurate inspections with high-quality imaging.

Integrated Control: Centralized operation with simplified system integration.

Enhanced Documentation and Analysis: Better documentation with overlay, annotation, and embedded EXIF data.

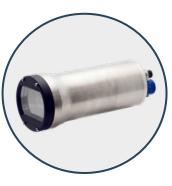
System Includes:



DVR+O SCI Inspection Software



Lights & Lasers



Rayfin Camera

Specifications

	All Equipment		
Temperature Rating	-10°C to +30°C (in Water)		
Voltage	18-32 Vdc		
Power - Camera	7-13 Watts		
Power - LEDs	48 Watts each		
Power - Lasers	3 Watt (MantaRay or Skate laser)		
Control	Ethernet		
Protection	Short circuit, under/over voltage, ESD, over-temperature		

		Camera Options		
		All Rayfin Camera Models		
Sensor		12.3MP CMOS 12-bit		
Max. Exposure Setting		Shutter Speed 1/65000, ISO 3200		
Lens		4.52mm f/2.0		
LiquidOptics		81° diagonal field of view. Less than 3.4% distortion.		
Zoom		12.3MP sensor zoom (5x optical equivalent)		
Focus Range		15cm to infinity		
Live Video		Ethernet - RTSP H.264 - 4K, 1080p, 720p		
Media Formats		Video: MPEG4, H.264, H.265 Stills: JPEG Data: CSV		
Media Transfer		Live video, stills, and data transfer to topside storage (HDD, SSD, NAS)		
Continuous Stills (Rayfin Rapid Digital Imaging)		Configurable rate 2 per sec (2Hz) - 1 every 10 seconds (0.1Hz)		
Clock Sources		NTP Server, Time from Data string		
Data Logging		NMEA 0183/2000 format @ 10Hz		
Integrated Sensors		Tilt and Roll		
	Rayf	n Coastal & Rayfin Micro	Rayfin Benthic	
Depth Rating		500m	6000m	
Materials	Sap	phire, Anodized Aluminum	Sapphire, Grade 5 Titanium, Delrin	
Available Connectors		BPC	HDE, SD, HDC, and UHDF	

	Accessories				
	Aquorea LED - White Beam				
Lamp Output	Up to 15,000 Lumens				
Colour	5,000K				
Beam Angle	80° (circular)				
Strobe Output	32,000+ Lumens				
	MantaRay Parallel Lasers	Skate Line Laser	Skate Grid Laser		
Pattern Type	Parallel dots	53.6° - line	17.1° - 10 x 10 dot grid		
Uniformity	10cm ± 10mm @ 5m distance	=/- 20% (related to average power, within 80% of the line)	Dot spacing 24mm @ 1m distance		
Output Power	≤5.00 mW	100 (mW-max.)	70 (mW-max.)		
Wavelength	520nm ±10nm (green)				
Class	3R (avoid direct eye exposure)				

Specifications subject to change without notice.© 2010 SubC Control Ltd. All rights reserved. Rev. September 2022



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.