Tow Camera System

Powered by Rayfin Single Channel Inspection Software

SubC Imaging

High-resolution integrated solution for seabed transects, visual surveys and inspection

The comprehensive system has a maximum operating depth of 380m, utilizing Kevlar tow cable up to 410m. It features a high-specification Rayfin Coastal camera that streams uninterrupted real-time HD and 4K video with simultaneous 12.3MP digital stills, and topside recording.

Applications

Seafloor Mapping
Marine Observations
Fisheries Research
Conservation
Offshore Infrastructure Inspection
Underwater Archaeology
Search and Rescue

Features

Environmentally conscious design
Real-time HD & 4K video, 12.1MPstills and video recording
Built-in adjustable stills capture rate up to 2 Hz
Max operating depth of 380m
Adjustable camera/lights position
Variable light intensity
Optional scaling laser

Total System Includes

1 x Tow camera frame with self-adjusting passive altitude control
1 x HD/4K & 12.3MP stills Rayfin Costal camera
1 x Built-in DVR with overlays, annotations, and voiceover capabilities
1 x Built-in altimeter, depth, NMEA, time/date sensor, tilt, roll
2 x Aquorea LEDs with strobe and lamp capabilities
1 x MantaRay parallel dot lasers for precise measurement (optional)
2 x Skate line lasers for scaling (optional)
1 x Winch cable for efficient deployment (optional)

Advanced software provides full control of the camera, lights, and lasers while saving users time in post-processing through instant transfer and organization of media, data, and files, with automated logging of timestamps, NMEA, EXIF data, and sensor information.

This fully equipped system includes a digital video recorder for real-time HD and 4K video recording. The system features Rayfin Rapid Digital Imaging (RDI) to capture high-resolution digital stills with digital zoom capabilities, surpassing traditional video frame grabs and enabling 3D modeling and photogrammetry.

Designed for ease of use and durability, the rugged frame is constructed from stainless steel and epoxy-coated aluminum, ensuring reliability in harsh ocean conditions. The system's components are pre-assembled, simplifying setup for users, and designed for easy adjustments in the field.

Specifications

	Tow Camera System
Tow Frame Weight	49.4 kg (in air) | 9 kg buoyant without drag chain (in water)
Tow Frame Dimensions	1.20m wide x 0.48m diameter
System Max. Operating Depth	380m
LED Lumens	16,000 lumens (lamp) | 50,000 lumens (strobe)
Digital Stills	12.3 Megapixel
Video Resolution	HD | Up to 4K
Real-Time Streaming	1080p HD/4K video for visualization and real-time recording
DVR Recording	Records real-time video and incorporates video annotation and system control software

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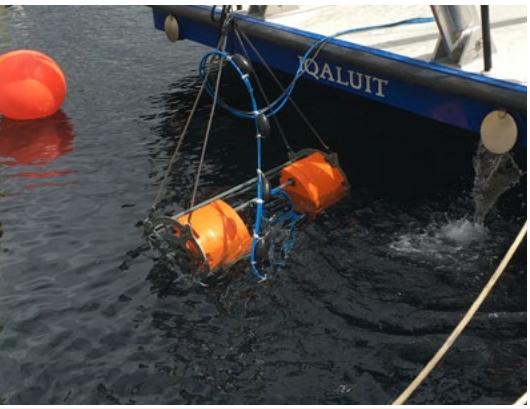
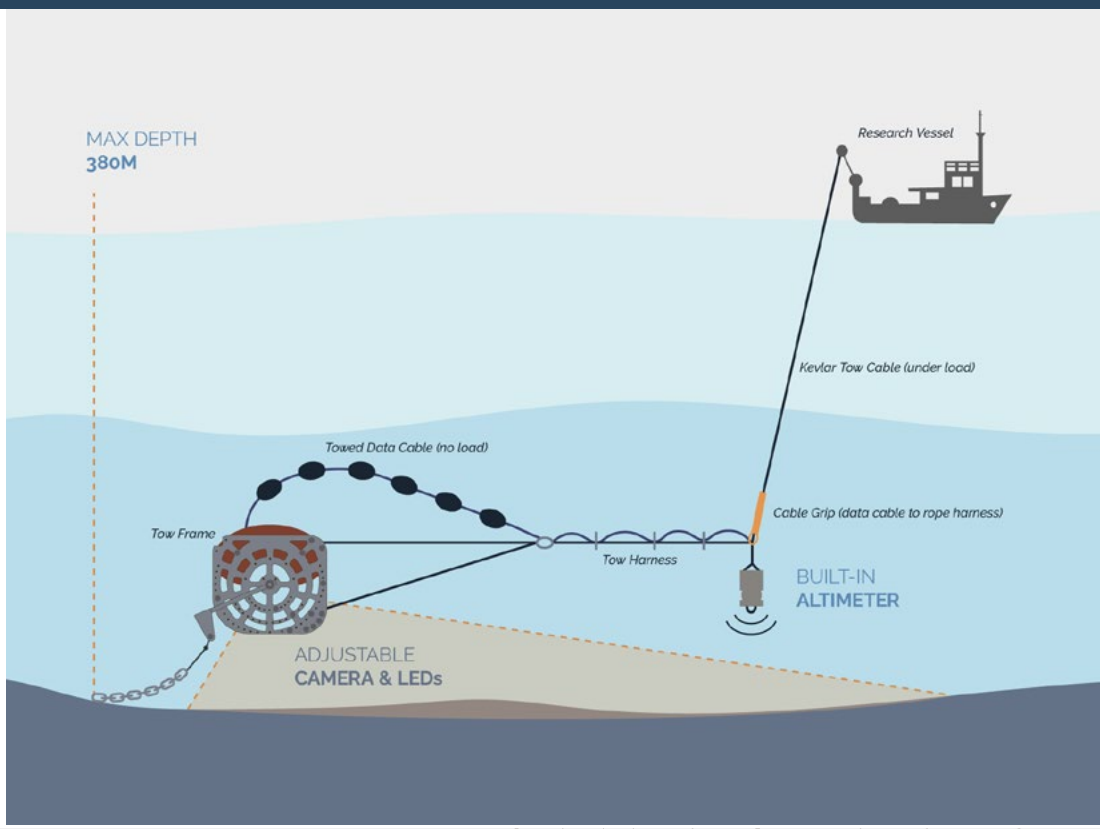
FUGRO

"We've been impressed with the software's capabilities. Features like the visual EXIF GPS indicator are incredibly helpful. The collaborative approach has truly enhanced our project workflow and it's great to have such a responsive and supportive partner in SubC Imaging."

Katie Duncan, Project Environmental Scientist, Fugro

Tow Camera System User





Available for direct purchase.
To speak with an expert or schedule a demo please **contact us**.

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