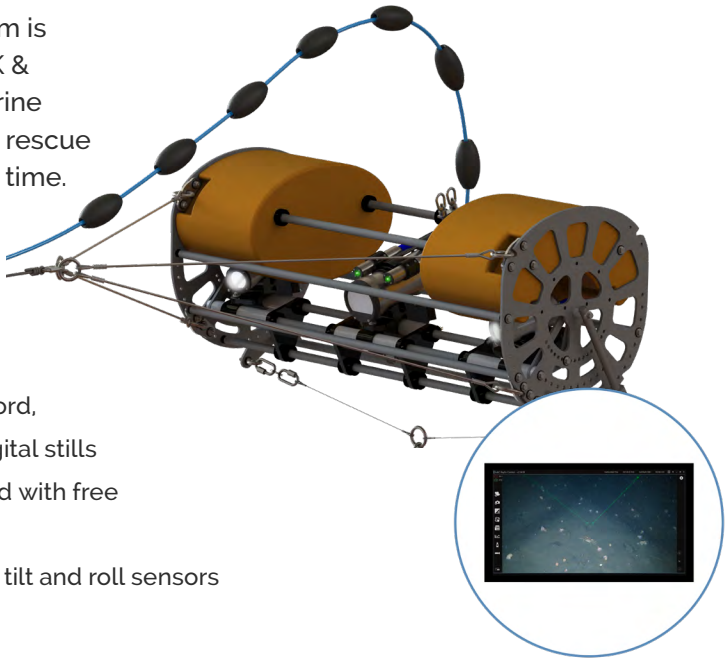
Tow Camera System

A coastal water, competitively priced, high-performance solution

Durable and high-performance, the SubC Tow Camera System is designed to capture and store underwater observations in 4K & HD. Field-tested and ocean-ready, the system is ideal for marine observation, fisheries research, conservation, and search and rescue that need to cover a large amount of area in a short period of time.



Real-Time Video Stream

What You Get

- Sturdy frame, designed to withstand harsh ocean conditions
- Up to 410m of kevlar tow cable
- SubC's signature Rayfin camera, fully adjustable and ready to record, capture, and store hours of video and 1000's of high-resolution digital stills
- Rayfin Software that provides a real-time feed and comes standard with free updates to keep your system cutting-edge
- NMEA sensor data logging of GPS and altitude with built-in depth, tilt and roll sensors
- Adjustable LEDs and lasers for precision and superior footage
- Optional electric winch to deploy your system

Cost-effective

A smart alternative to expensive AUV and ROV deployments for collecting high-quality seafloor images, video and data.

Stable, Rugged Design

The hydro-dynamic tow frame enables a stable platform while maintaining a constant altitude. The unique design allows the system to maneuver over obstacles like rocks or fishing traps.

Convenient & Easy to use

Power your system, and have real-time control and monitoring of video and data topside with SubC's Boost-Power Comms technology.

Workflow Compatibility

The system saves you time on data synthesis and report generation with compatibility for post-survey workflows such as BIIGLE.

Environmentally Conscience

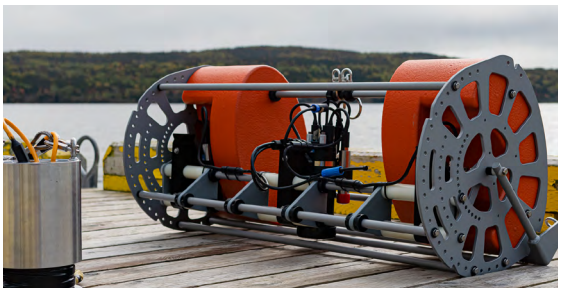
SubC believes in environmental stewardship and has designed the system to have minimal contact with the seafloor.

End-to-end Support

Invested in the success of your system and project, we offer comprehensive remote training and ongoing support.

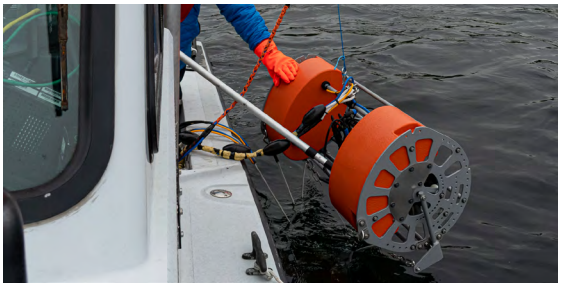
Specifications		Tow Camera System
Tow Frame and System	Weight (in air)	49.4 Kg (in air) / -9 Kg (in water - buoyant)
	Tow frame dimensions	1.20m Wide x 0.48m Diameter
	Adjustability	Mounts adjustable from 21˚ to 90˚ vertical in 7.5˚ increments
	Maximum operating depth	380m (limited by cable length and tow speed)
	Tow height	Adjustable from 1 - 3m
	Clump weight	30Kg with built-in Altimeter
Camera System	Image Format and Rate	JPEG (3Hz) and RAW (0.5Hz)
	Resolution and Capacity	HD (40+hr) and 4K UHD (10+hr)
	LiquidOptics FOV	82˚ diagonal (4:3 format)
	Power requirements	AC 110 - 240V, 200W topside (BPC unit)
	LED intensity	16,000 lumens (lamp) / 50,000 lumens (strobe)
	Data Logging	NMEA standard @ 1Hz
	Integrated Sensors	Altitude, Depth, Tilt, Roll
Winch and Cable	Power requirements	AC 120V, 1500W
	Cable strength rating	455Kg (working load) / 1500Kg (breaking strength)
	Winch max speed	0.3m/s - 0.5m/s
	Dimensions	97cm(L) x 76cm(W) x 70cm(H)
	Winch and cable weight	131kg - 158kg (dependant on cable length)
	Operating Temperature	-10˚C to 40˚C

Case Studies



Tow Camera System Development: Driving Innovation Through Customer Collaboration

Learn more about how the Tow Camera System was developed through collaboration with customers and understanding the challenges they faced when mapping and imaging the seafloor.



Proving the Tow Camera System: Field Tested & Ocean Ready

Get a behind-the-scenes look at the extensive flume tank testing and sea trials conducted with the Fisheries & Marine Institute and the Government of Canada's Department of Fisheries to prove the Tow Camera System is ocean-ready.

SubC Imaging

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.

team@subcimaging.com | www.subcimaging.com | +1-709-702-0395