



Orca^M

Intelligence and image quality engineered for the subsea industries

Benefits

- AI Capabilities
- H.265 Encoding
- 30:1 Optical Zoom
- Open Architecture

Applications

- Inspection and Survey
- General Observation Tasks
- IMR Tasks
- Drill Support
- Pipeline Survey

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Overview

The Orca^M introduces the next generation of subsea imaging with our MillieOne encoder, built upon the renowned SubVIS platform. This encoder brings advanced AI capabilities to the industry including, object detection, optical character recognition and ArUco code reading. As our most sophisticated encoder to date, MillieOne sets a new benchmark for intelligent subsea technology.

Imenco's philosophy is rooted in open architecture, similar to the approach that transformed smart phone technology. This ensures full integration with third-party control systems and gives users the freedom to develop custom software applications. You can tailor the system to meet your specific operational requirements, adding video analysis algorithms, image enhancement tools, and other functionalities on top of the core software.

The Orca^M system leverage's image metadata to deliver significant operational advantages. One of its most innovative features is the ability for subsea devices to communicate automatically. For example, the camera can instruct lights to reduce intensity, ensuring optimal illumination without manual intervention.

Designed as a primary ROV camera, Orca^M is equipped with a high-performance water correction lens system that guarantees exceptional image quality in demanding subsea environments.

Technical Spec

Video Resolution	1080p@60/50/30/25, 720@60/50, 576@50/25 (H.264 H.265)
Image sensor	1/2.8" type TypeSTARVIS2CMOS Sensor (Approx 2.13M Pixels)
Shutter type	Rolling sensor
Minimum Illumination	0.009 Lux (ICR OFF) 0.00008 Lux (ICR ON)
Protocols	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, UPnP, RTP, RTSP, RTCP, DHCP, ARP, zero config
Latency (Glass to Glass)	~150mS
Time sync	NTP
Control	Imenco API'S / ONVIV S
Optical Zoom	30:1
Front port type	Ivanoff-Rebikoff water correction lens system
AOV in water	Diagonal: 71° Horizontal: 64°
Power Requirements	24 VDC (10VDC – 36VDC) 10W
Standard connector	Subconn DBCR2013M / Seacon 5506-1508
Depth rating	3000/4500 msw (Glass/Acrylic)
Housing	Titanium
Main dimensions (ex conn.)	Diameter: 140 (main Body) 117mm (front end) Length: 226mm
Weight	In Water: 1.2 Kg In Air: 5.0 Kg