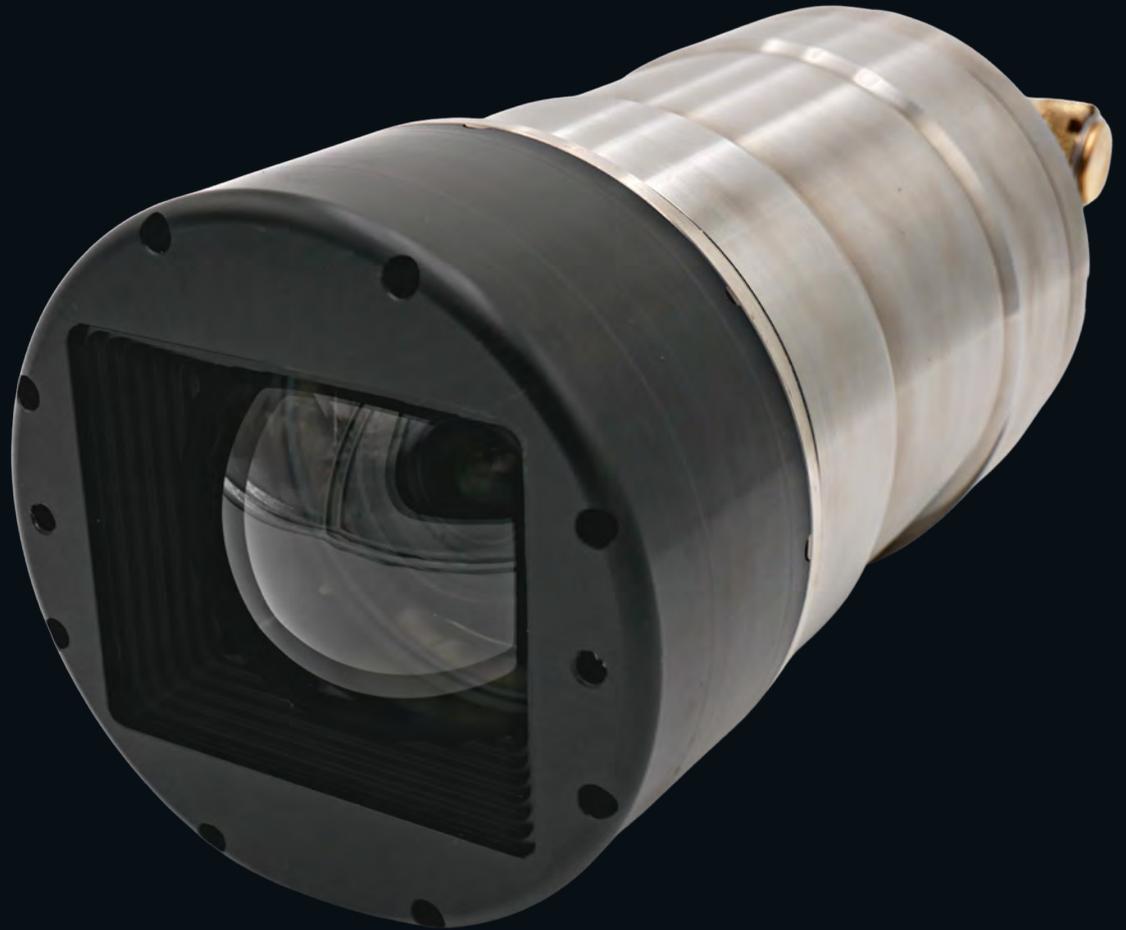


VOYIS 

| Observer Imaging

VISION SERIES
SURVEY SERIES





OBSERVER IMAGING

Capture Sharp, Evenly Illuminated Stills Images and Video

Our high-resolution Observer cameras paired with our Nova LED panels produce crisp, evenly illuminated stills images and videos at high vehicle speeds. Proprietary Deep Vision Optics coupled with on-board image enhancement and colour correction machine-learning produces true-colour images to accurately see your subject.

Benefits & Features

- ✓ **Clarity at High Speeds**
Our high-sensitivity sensors enable short exposures so you can achieve clarity even at high vehicle speeds
- ✓ **Real-Time Image Processing**
Onboard image enhancement corrects water distortions and light illumination to deliver real-time actionable data.
- ✓ **Designed for Machine Vision**
High dynamic range image captures light and dark areas for effective tracking and mosaicing.
- ✓ **True Colour Images**
Automated machine-learning delivers colour correction that brings out true target colours.
- ✓ **Deep Vision Optics**
Purpose-built optics for optimized data underwater - high-quality hardware is the foundation for delivering high-quality results.
- ✓ **Customer Support**
Our team partners with you to find the best solution for your project.



OBSERVER IMAGING

Find the Right Product for your Project

Each Observer produces high-resolution stills images or videos but there are a few options to best suit your project/deployment.

OBSERVER SURVEY SERIES



A survey-grade imaging system for wide area mapping and localized inspection. HDR imaging, long-range lighting, and industry leading optics.

OBSERVER VISION SERIES



Compact ROV piloting camera, with ultra wide field of view, designed for low latency vehicle piloting and machine vision.



OBSERVER SURVEY SERIES



The Observer Survey Series S6000 imaging systems are engineered to deliver high-quality optical data across a range of autonomous and high-speed subsea platforms, from compact vehicles to long-range AUV deployments. Designed for seamless integration, both the Micro and Pro configurations pair high-performance sensors with adaptable Nova LED panels to ensure consistent illumination and sharp imagery across varying vehicle sizes and mission profiles. With resolutions up to 12MP, the systems provide crisp, detailed imagery while maintaining the flexibility required to meet diverse project objectives.

Built to support both close-range inspections and wide-area optical surveys, the Survey Series enables imaging at ranges up to 10 meters while maintaining stability at speeds of up to 6 knots. Actively cooled sensors and high-output lighting allow ultra-short exposure times for blur-free results, even during high-speed operations. Sensor configurations are optimized to balance image quality with efficient data storage, making the systems well suited for extended missions. The S6000 can operate as a standalone imaging solution or integrate seamlessly with laser scanners to automatically sequence image capture between laser profiles, supporting synchronized optical and laser-based survey workflows.



Benefits and Features

- ✓ **Equipped with Deep Vision Optics**
real-time enhancement for image sharpness and depth of field, improving feature and target detection while optimizing machine learning performance.
- ✓ **High-quality Inspection Results at Altitude and Speed**
A 4K low-latency video stream supports real-time piloting while high-resolution still images are captured at the same time, ensuring no compromise between control and data quality.
- ✓ **Seamless Multi-sensor Integration**
Combine optical imaging with laser scanning to produce complete, co-registered datasets for confident measurement, analysis, and decision-making.
- ✓ **Optimized for Wide-area Mapping**
Consistent image-to-image uniformity supports reliable image alignment and seamless mosaic generation across extended survey lines, enabling accurate orthomosaics, photogrammetry, and machine-learning analysis.



OBSERVER
SURVEY SERIES

FEATURE	S6000 MICRO	S6000 PRO
Sensors	4096 x 3008 (12MP) Colour 12-Bit Global Shutter	2464 x 2160 (5.5MP) Colour 16-Bit Global Shutter
Optics	Deep Vision Optics 12mm, f2.0 FOV: 56° H x 42° V	Deep Vision Optics 12mm, f2.0 FOV: 64° H x 56° V
Operating Range	1 to 7m	1 to 10m
Depth Rating	6000m	
Frame Rates	Up to 4 FPS	
Dimensions (L x W)	Approx: 251 x 130 (mm)	Approx: 362 x 130 (mm)
LEDs	Up to 750,000 lumens with Nova LEDs	
Electrical	Input: 21-36 VDC Camera ~24W 70-100W total with Nova LEDs	Input: 21-48 VDC Camera ~26W 80-110W total with Nova LEDs
Onboard Processing	Image undistortion, colour & lighting correction	
Data Output	Processed Images: 8-bit JPEG Raw Images: 12-bit TIFF	
Onboard Storage	2 TB	
Calibration	Factory calibrated, no in-field calibration required	
Software Integrations	Voyis ViewLS, EIVA NaviSuite, 3DZephyr, Voyis C++ API	
Connection Interface	CRE P16 single cable to vehicle/control Control & Data via Ethernet (100mbps or 1Gbps)	
Time Synchronization	PPS + ZDA, PTP, NTP	
Real Time Image Metadata (EXIF)	Precision Timestamp, Navigation (GPS, Depth, Altitude)	

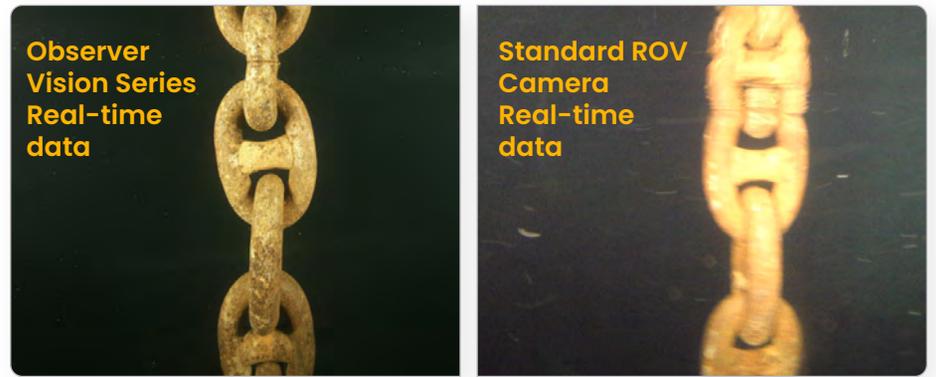


OBSERVER VISION SERIES



The Observer Vision Series is the first smart ROV piloting camera built for ultra-low latency control and enhanced situational awareness, with powerful edge computing for real-time image enhancement and onboard machine learning and AI functions. A high-sensitivity 4K sensor delivers sharp video with an ultra-wide field of view, giving pilots clear visibility for confident navigation in complex environments while simultaneously capturing crisp still images for machine vision applications.

Equipped with integrated ultra-high power Nova Mini lights, the camera provides bright, balanced illumination for long-range and high-speed operations. It ensures a smooth, responsive video stream for piloting and feature detection while capturing still images and IMU data for optional 3D reconstruction. Optimized for constrained bandwidth, its Software API and DDS framework enable seamless integration into ROV systems.

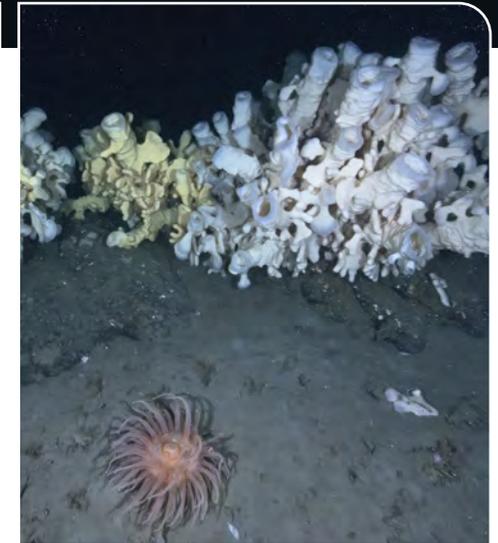


- ✓ **Real-Time, Low-Latency Piloting Video**
Low-latency video delivery provides operators with immediate visual feedback, enabling confident vehicle control and precise maneuvering in complex or low-visibility underwater environments.
- ✓ **Simultaneous 4K Video and Still Imaging**
A 4K low-latency video stream supports real-time piloting while high-resolution still images are captured at the same time, ensuring no compromise between control and data quality.
- ✓ **Intelligent Edge Processing for Enhanced Visual Output**
Onboard edge computing enhances live video in real time while simultaneously capturing raw still images, preserving data fidelity without impacting performance. This architecture also enables embedded machine vision functions such as ArUco marker detection and tracking.
- ✓ **Ultra-Wide Field of View for Situational Awareness**
A high-sensitivity 4K sensor delivers sharp video across an ultra-wide field of view, providing pilots with clear visibility for confident navigation in complex underwater environments.



OBSERVER
VISION SERIES

FEATURE	V300
Sensors	2816 x 2816 (8.1 MP) Colour 12-Bit Global Shutter
Optics	Super Wide 130° x 130° FOV Fixed Focus, Low-Light Lens
Video	4K 1:1 27 FPS 16:9 30 FPS
Operating Range	Up to 5m
Depth Rating	300m
Dimensions (L x W x H)	Approximate: 200 x 115 x 95 (mm)
LEDs	Up to 125,000 lumens with 2x Mini Novas Control: ON, Strobe, Dimming, Off
Electrical	Input: 24 VDC (21-28V) Idle: 16W Operating 22W to 100W
Onboard Processing	Image undistortion, colour & lighting correction
Data Output	Processed Images: 8-Bit JPEG Raw Images: 12-Bit TIFF Video: H.264, MP4 IMU Data: CSV
Onboard Storage	2 TB
Calibration	Factory calibrated, no in-field calibration required
Software Integrations	Voyis Discovery Windows GUI, C++ SDK 3DF Zephyr
Interface	Control & Data via Ethernet (100mbps or 1Gbps)
Time Synchronization	PPS, NTP
Real Time Image Metadata (EXIF)	Precision Timestamp, Navigation (GPS, Depth, Altitude)



Accessories and Support



Scale Bars

Rigid bar with calibrated scale markers, extends measurement functionality to non-stereo systems

Offers measurement capability to users operating the Observer Imaging Systems or other mono camera configurations, increasing the utility of their existing systems. Enables customers to verify the accuracy of the reconstructed scale in 3D models or imagery, improving confidence and validation in high-stakes operations.



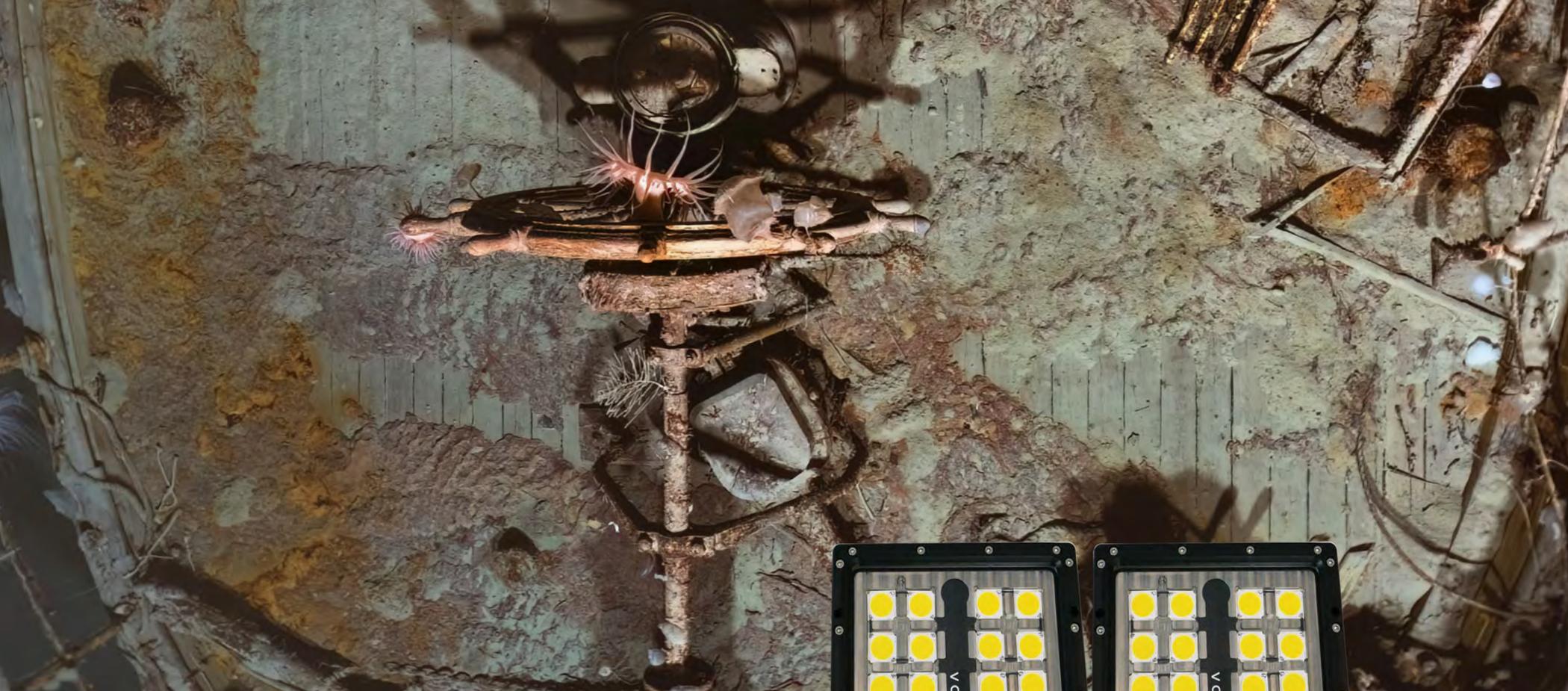
Voyis Support

Our team provides targeted expertise to ensure reliable results, efficient mobilization, and high-quality data

The Voyis Support Program is designed to help users execute successful underwater visual surveys and photogrammetry projects, from planning to final 3D deliverables. Whether you're an asset owner looking to outsource full survey services, or a survey company deploying Voyis hardware independently, and seeking our expertise to ensure success.

Contact sales@voyis.com to illuminate more about any of our additional services, accessories or product offerings.





VOYIS 

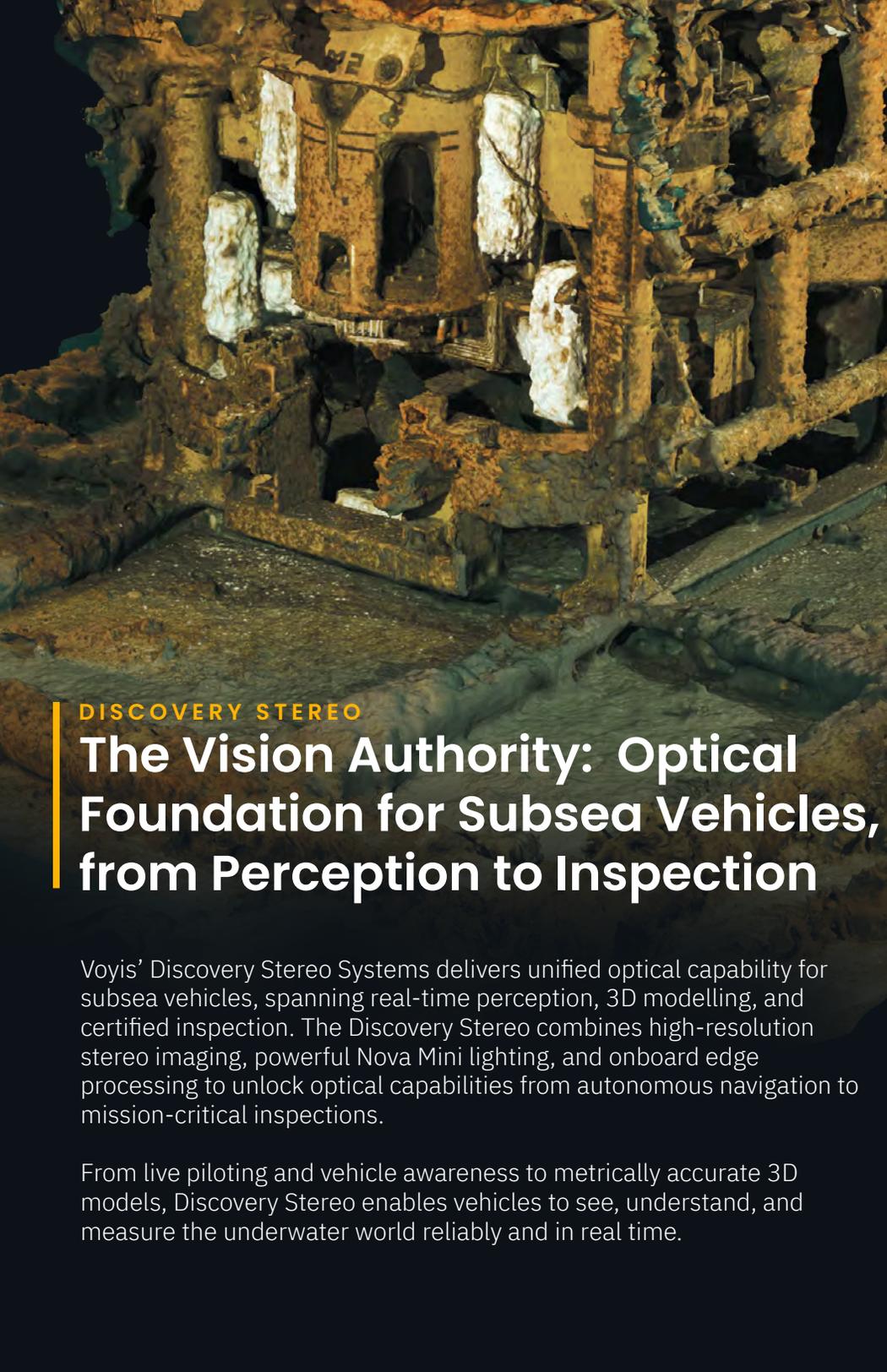
Illuminate The Unknown
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VOYIS 

 **Discovery
Stereo**

INSPECTION SERIES





DISCOVERY STEREO

The Vision Authority: Optical Foundation for Subsea Vehicles, from Perception to Inspection

Voyis' Discovery Stereo Systems delivers unified optical capability for subsea vehicles, spanning real-time perception, 3D modelling, and certified inspection. The Discovery Stereo combines high-resolution stereo imaging, powerful Nova Mini lighting, and onboard edge processing to unlock optical capabilities from autonomous navigation to mission-critical inspections.

From live piloting and vehicle awareness to metrically accurate 3D models, Discovery Stereo enables vehicles to see, understand, and measure the underwater world reliably and in real time.

Benefits & Features

- ✓ **Engineered for 3D Understanding**
Sharp stereo imagery with integrated positioning data, delivered with Voyis' proprietary camera calibration and verified accuracy, enables reliable 3D reconstruction for inspection, measurement, and general visual inspection (GVI).
- ✓ **Real-time 3D Intelligence**
Onboard image processing and real-time SLAM generate live 3D reconstructions, supporting in-mission data quality control and faster, more confident decision-making offshore.
- ✓ **Depth Perception for Autonomy and Control**
Low-latency depth maps and video provide high-fidelity 3D awareness, enhancing navigation, enabling autonomy, improving maneuverability, and reducing collision risk during complex subsea operations.
- ✓ **Designed for Seamless Vehicle Integrations**
With synchronized ultra-bright Nova Mini LED and a single vehicle interface supported by pre-made client control software, the Discovery Stereo simplifies integration across subsea platforms. The system combines imaging, lighting, navigation support (INS), and low-latency video in a single, ready-to-deploy sensing solution.
- ✓ **First Class Customer Support**
Voyis partners with you from integration to operations, delivering expert support in training, data delivery, and system upkeep to maximize Discovery Stereo performance. We provide support through three tailored offerings: Voyis Care for ongoing assistance, Voyis Academy for training and certification, and Voyis Support for survey planning and assistance.



DISCOVERY STEREO

Find the Right Product For Your Project

Both Discovery Stereo cameras provide synchronized stereo image data, low-latency video, and 3D awareness. We can recommend the best option to suit your project and application.



DISCOVERY STEREO

INSPECTION SERIES



Advanced Inspections, Accurate 3D Modeling

A complete solution for certified accurate 3D modelling and real-time point clouds for wide area reconstruction, critical inspection, and metrology.



DISCOVERY STEREO INSPECTION SERIES



BUREAU
VERITAS

The Voyis Discovery Inspection Series is the optical authority for all critical underwater inspection applications, delivering 3D models with certified and repeatable accuracy. Available in two models, I300 and I4000, these systems are engineered to provide unmatched confidence in diverse subsea environments. Built around high-resolution 4K sensors, real-time image enhancements, and Voyis' advanced Deep Vision Optics, the Inspection Series delivers exceptional inspection video, still images, and high-confidence 3D reconstruction deliverables.

Integrated with Voyis VSLAM Powered by EIVA NaviSuite, the Discovery Stereo Inspection Series enables real-time 3D reconstruction and coverage mapping, providing operators with immediate insight into data quality and inspection completeness. Complete with accuracy certified by the Bureau of Veritas and verified to the same standard for every delivered system, the Inspection Series provides repeatable survey-grade measurements for critical subsea applications. The combination of precise 3D data, real-time visualization, and robust imaging delivers a complete solution for efficient, high-quality subsea inspections.



At a Glance

- ✓ **Certified Inspection Accuracy**
Independently verified 3D measurement accuracy by Bureau Veritas, with every unit validated through Voyis' proprietary in-house calibration process.
- ✓ **Imaging Excellence**
High dynamic range imaging, industry-leading lighting, and custom Deep Vision Optics deliver sharp, evenly illuminated data for reliable, high-quality photogrammetry results and 3D reconstruction.
- ✓ **Integrated VSLAM & Coverage Mapping**
Real-time 3D reconstruction and coverage insight during operations support data quality control and enhance piloting awareness.
- ✓ **Trusted by Survey Experts**
Proven across 100+ offshore survey campaigns across energy, defence, ocean sciences and civil infrastructure, the Inspection Series delivers actionable 3D data for inspection, wide-area reconstructions, and metrology applications.



DISCOVERY STEREO INSPECTION SERIES

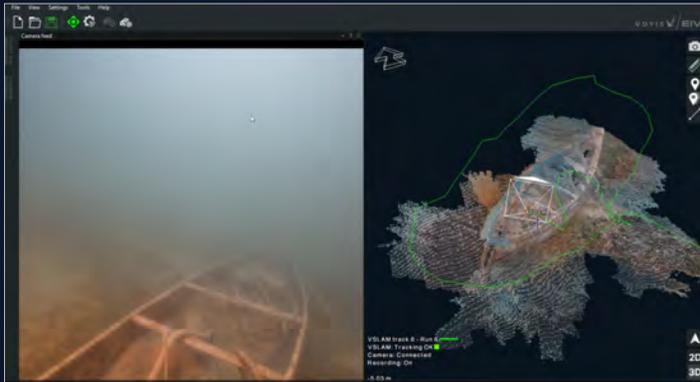
FEATURE	I300 I4000
Sensors	Resolution: 2816 x 2816 (8MP) Colour 12-Bit Global Shutter
Optics	Field of View: 75° x 75° Fixed Focus Lens Deep Vision Optics
Video	4K 1:1 27FPS 16:9 30FPS Latency: 100ms (HD) 150ms (4K)
Operating Range	0.3-3.0 m optimal, 0.1-5.0 m total
Accuracy*	Linear Accuracy: 0.3mm/meter Local Accuracy: ± 0.5mm Validated on a reference unit by Bureau Veritas North America Inc. under Certificate of Inspection No. COIN2134USA24
Depth Rating	300m (I300 Model), 4000m (I4000 Model)
Dimensions (L x W x H)	Approximate: 186 x 323 x 153 (mm)
LEDs	Up to 250,000 lumens with 4x Nova Mini Control: On, Strobe, Dimming, Off
Calibration	Factory calibrated, no in-field calibration required
Onboard Processing	Image undistortion, colour & lighting correction
Data Output	Process Images (JPEG) Raw Images (12-bit .TIFF) Video: 4K or HD (H.264, MP4) Depth Maps: RGBD or Point Cloud IMU Data: 100Hz (.CSV)
Onboard Storage	2 TB
Software Integrations	Voyis VSLAM Powered by EIVA NaviSuite, 3DF Zephyr, CloudCompare
Power	Input: 24 VDC (21-28V) Idle: 16W Operating: 22W to 170W
Interface	Gbit or 10/100 ethernet Windows Desktop Application or Client Control SDK
Time Synchronization	PPS, NTP

* Unaided - INS aiding can improve



SOFTWARE INTEGRATIONS

Voyis VSLAM Powered by EIVA NaviSuite



Empowering Survey Visualization with Real-time 3D Modeling

Voyis VSLAM Powered by EIVA NaviSuite is a real-time visual acquisition and visualization tool for Voyis Discovery Stereo Cameras, giving ROV operators immediate feedback on survey data quality. Unlike traditional stereo systems that rely on post-processing, the VSLAM solution builds a 3D reconstruction live during acquisition, helping teams ensure they are meeting coverage and image quality goals.

Voyis VSLAM solution delivers real-time textured 3D visualizations using a voxel-based model, combined with absolute geolocated mapping for subsea inspections and metrology. VSLAM-generated point clouds are aligned to global geodetic frames from the start of a mission, using data from connected INS systems. By embedding trusted geodesy into camera-based mapping, users can navigate more safely, revisit inspection targets in absolute coordinates, and streamline data interpretation, creating a survey-ready, globally consistent 3D dataset.

VSLAM track 22 - Run 19
VSLAM: Tracking OK
Camera: Connected
Recording: On

-1.83 m
2.77 m
-1.67 m

Benefits and Features

- ✓ **Complete Survey Data Quality Control**
Real-time 3D voxel model highlights coverage gaps for targeted inspection.
- ✓ **Augmented ROV Piloting**
Clear spatial context and live textures provide improved situational awareness to ROV pilots.
- ✓ **Enable Autonomy**
Accurate vehicle localization enables subsea autonomy features like obstacle avoidance.
- ✓ **Geo-located Mapping**
With INS integration, every 3D point generated by the Voyis VSLAM solution is immediately tied to a known global reference frame.





Voyis Academy

Equip your team to deploy, maintain, and extract maximum value from Discovery Stereo with expert training.

Voyis Academy empowers users to confidently master the Discovery Stereo System, from seamless integration and smooth operation to advanced data processing. Designed to turn technical knowledge into real-world expertise, this hands-on training ensures you get the most out of your system, delivering high-performance results in every underwater inspection and 3D modelling mission.



Voyis Protect

Keep your Discovery Stereo performing like new with precision diagnostics, certified recalibration, and trusted care.

Your Voyis Discovery Stereo Camera is engineered for reliable underwater performance, but harsh environments and frequent use demand regular upkeep. Voyis Protect provides proactive servicing, including updated accuracy verification, a new certificate of conformance, image quality checks, and the latest software updates, ensuring your camera continues to deliver high-performance measurements and imagery.



Voyis Support

Turn your Discovery Stereo operations into trusted 3D results with professional guidance.

The Voyis Support Program is designed to help users execute successful underwater visual surveys and photogrammetry projects, from survey planning through final 3D deliverables. Support options include survey planning and consultation, onsite operational support, and data processing and reporting, serving both asset owners and survey companies deploying Voyis hardware and seeking expert guidance.

Contact sales@voyis.com to illuminate more about any of our additional services, accessories or product offerings.





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VOYIS 

Insight Underwater Laser Scanners

INSIGHT SERIES



Datasheet & Product Information

INSIGHT UNDERWATER LASER SCANNERS

Capture Incredibly Detailed 3D Data

Voyis' Insight Underwater Laser Scanners capture 3D data with submillimeter accuracy to help you see the depths, just like we see the surface. Assets in remote subsea environments can be modelled from a dynamic subsea vehicle or static installation, with all data processed in real-time so that results are immediately available for review.



Benefits and Features

- ✓ **Vehicle Integration**
Proven and reliable integration options for subsea vehicles using an easy-to-use software API interface
- ✓ **Dynamic Scanning**
Proven integration with common navigational sensors enables scanning from moving subsea vehicles
- ✓ **Customer Support**
Our team partners with you to find the best solution for your project
- ✓ **Real-Time Data**
3D data is processed onboard the sensor to deliver real-time actionable data for machine learning
- ✓ **Simplified Integration**
Sensors that push the limits to deliver the highest resolution, accuracy and range at any vehicle speed



Find the Right Product For Your Project

Each Insight laser scanner produces high-resolution laser data but there are a few options to best suit your project/deployment.



Insight Nano

Compact size for 3D modelling small spaces & short to mid-range targets. Simplified static scanning with embedded actuator.

Depth Rating:	1000m
Scan Range:	0.13m - 1m & 0.4m - 2.5m (XR)
Points Per Line	2048



Insight Micro

A long-range laser scanner but in a smaller package making it suitable for small vehicles.

Depth Rating:	1000m & 4000m
Scan Range:	1.2m - 7m
Points Per Line	2432



Insight Pro

Our longest-range scanner providing the highest quality data possible from larger vehicles.

Depth Rating:	4500m & 6000m
Scan Range:	1.5m - 15m
Points Per Line	2048



COMPACT LASER SCANNERS
INSIGHT NANO



The Insight Nano is a compact laser scanner designed for straightforward 3D modelling. The integrated actuator and simple user interface enable non-intrusive qualitative inspection without any external aiding sensors.

The system is capable of integration with a variety of deployment vehicles, including small ROVs and pipe crawlers, to deliver high resolution data in confined spaces like pipes, tunnels, and flume tanks.

This new generation Nano is available with time synchronization, dynamic scanning, and highspeed scanning options.



Benefits and Features



3D modelling in confined spaces, in air or water



Sub-millimeter resolution



Accurate measurements without external sensors



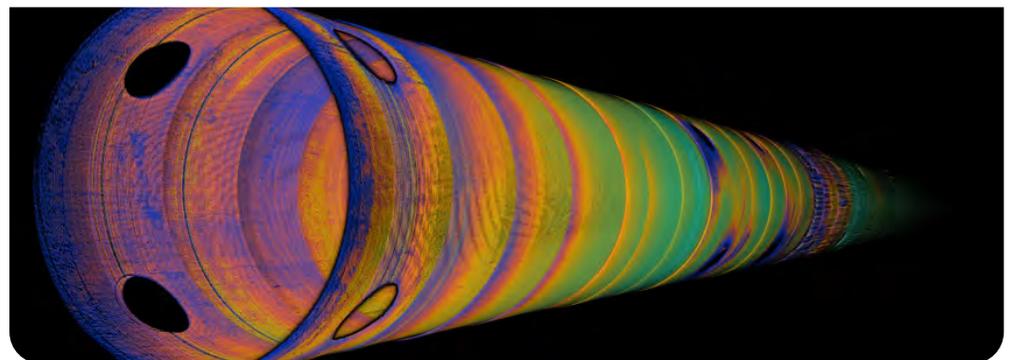
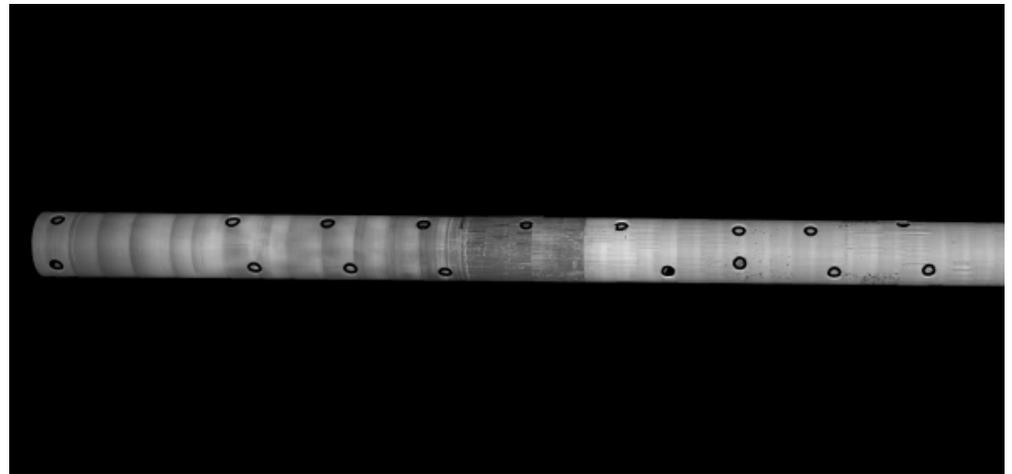
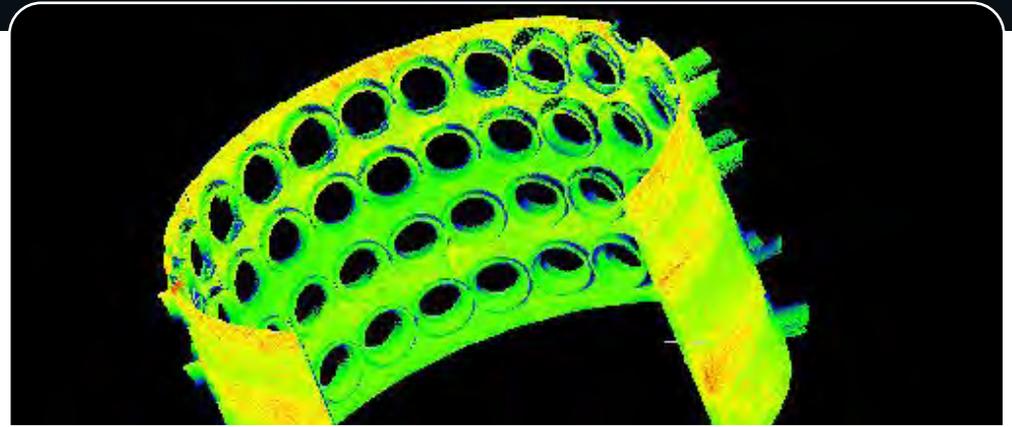
High-speed rotational or dynamic scanning



SPECIFICATIONS

INSIGHT NANO

FEATURE	NANO – SHORT RANGE	NANO XR – MEDIUM RANGE
Scan Range*	0.13m - 1.0m	0.4m - 2.5m
Points Per Line**	2048 data points 50° (water) 70° (air) Angle of View	
X Resolution (Along laser line)	0.1mm @ 0.13m 0.3mm @ 0.5m 0.5mm @ 1.0m	0.2mm @ 0.4m 0.7mm @ 1.5m 1.0mm @ 2.5m
Y Resolution (Profile to Profile)	0.05mm @ 0.13m 0.1mm @ 0.5m 0.2mm @ 1.0m	0.1mm @ 0.4m 0.3mm @ 1.5m 0.5mm @ 2.5m
Z Resolution (Depth Resolution)	0.05mm @ 0.13m 0.1mm @ 0.5m 0.4mm @ 1.0m	0.05mm @ 0.4m 0.5mm @ 1.5m 1.2mm @ 2.5m
Profile Rate	35 Hz Range limiting option for higher captured rates	
Laser 	Max output: <5mW Pulse duration: 1mSec to CW Wavelength: 450nm or 520nm WARNING - LASER RADIATION AVOID DIRECT EYE EXPOSURE Class 3R Laser Product	
Power Consumption	25W, 24V	
Data Interface	Ethernet, TCP/IP Communication	
Depth Rating	1000m	
Data Storage	Topside or Network Storage	
Data Acquisition	ViewLS Software C++ API Factory Calibrated Acquisition Modes: Precision Scanning, High-speed Scanning & Dynamic Scanning	
Export Data Formats	.XYZ (CSV), LAS Publishing	
3rd Party Integrations	EIVA NaviSuite, QPS QINSy, HYPACK HYSWEEP, 4D NAV	
Weight (camera)	P3000: Air: 5.4 kg Water: 2.7 kg	



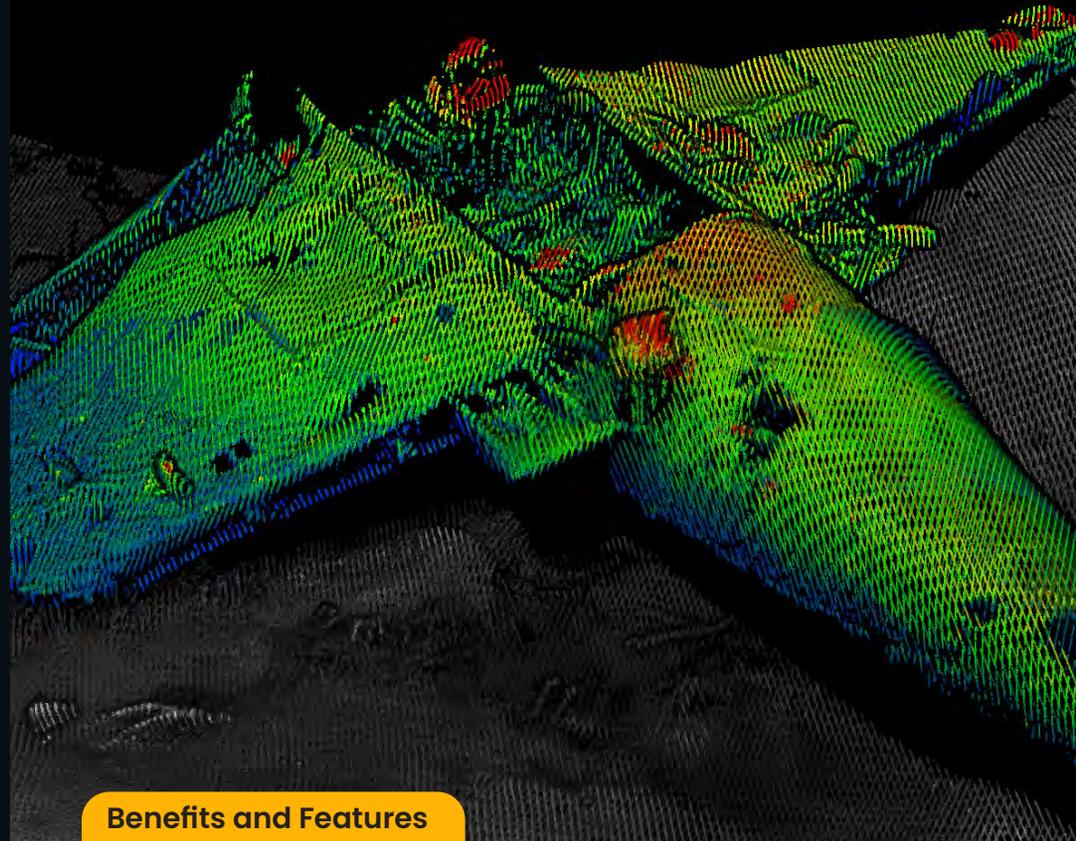
* Range measured from Scanner Origin, defined as the center of rotation

** Angle of view is measured at center of Scan Range



STATIC & DYNAMIC LASER SCANNERS

INSIGHT MICRO



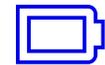
The Insight Micro enables small vehicle platforms to perform high accuracy inspection tasks with tightly integrated laser and stills data. The package provides long range data collection (7m) in a compact and low power draw package.

The system has been integrated with AUVs like the REMUS 600, and ROVs like the Saab Falcon, utilizing its software API and time synchronization to enable rapid adoption onto existing vehicle assets. Laser and Image data is processed and enhanced in real-time onboard the system to deliver actionable data for machine learning applications.

Benefits and Features



High-accuracy models
from small vehicles



Compact &
Low power draw



Seamless stills imaging
integrations



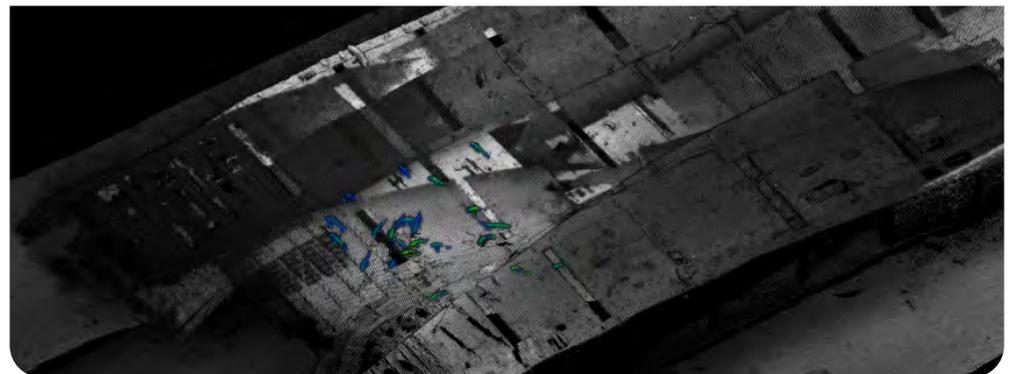
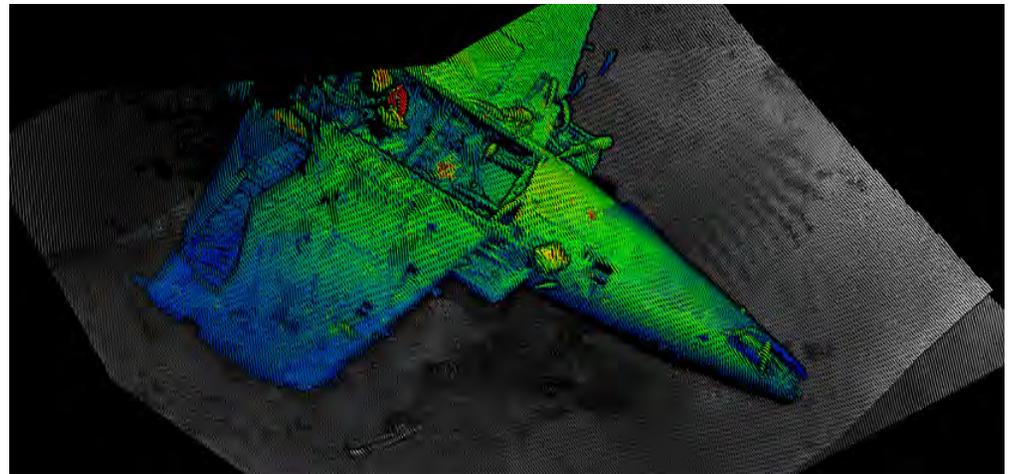
Onboard storage & data
enhancement



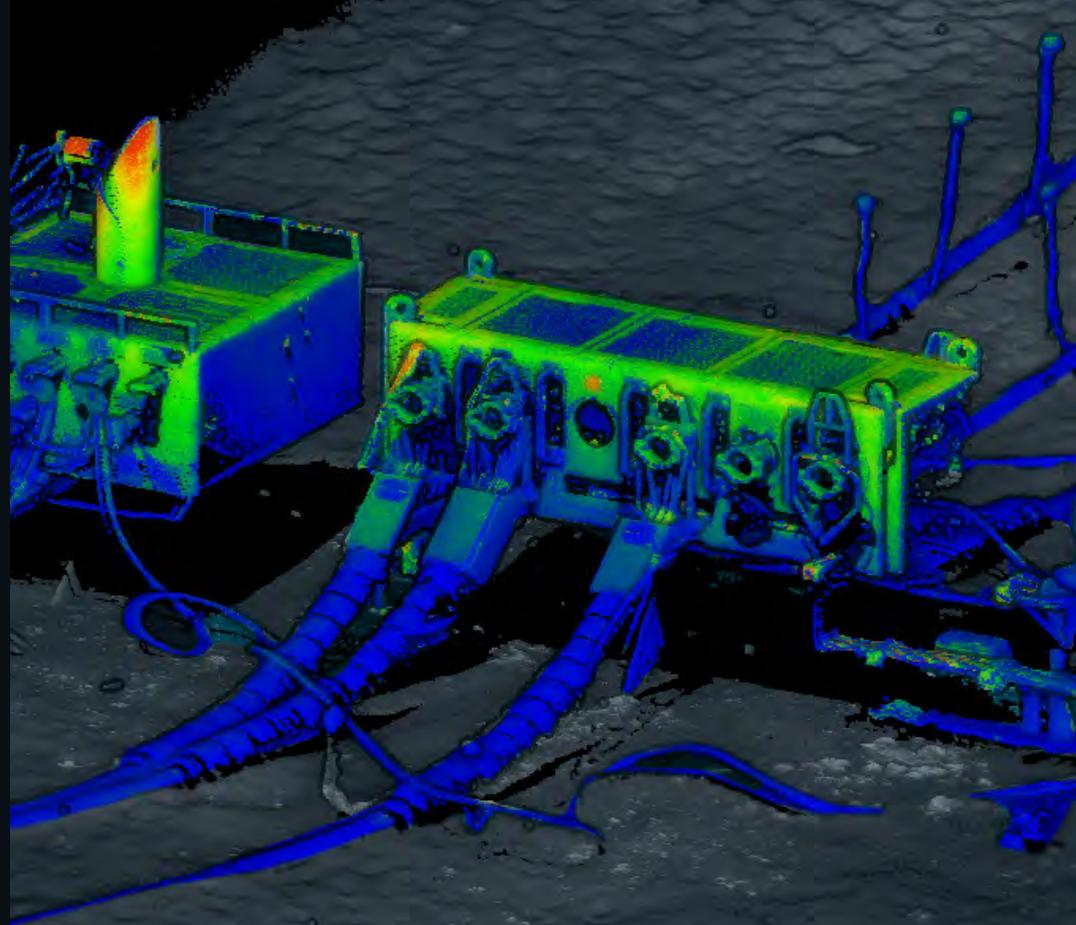
SPECIFICATIONS

INSIGHT MICRO

FEATURE	DESCRIPTION	
Scan Range	1.0m - 5.0m (SR) 1.0m - 7.0m (XR)	
Points Per Line	2432 data points 50° (water)	
X Resolution (Along laser line)	0.4mm @ 1m 1.1mm @ 3m	1.9mm @ 5m 2.6mm @ 7m
Y Resolution (Profile to Profile)	1.5mm @ 0.25 knot 12.5mm @ 2 knot	3.1mm @ 0.5 knot 25mm @ 4 knot
Z Resolution (Depth Resolution)	0.1mm @ 1m 1.0mm @ 3m	2.2mm @ 5m 4.0mm @ 7m
Profile Rate	50 Hz Laser with 3Hz Stills Imaging 100 Hz (Laser Only) with Range Limiting	
Laser 	Max output: <75mW Pulse duration: 1mSec to CW Wavelength: 450nm +/- 10nm WARNING: LASER RADIATION AVOID DIRECT EYE EXPOSURE Class 3R Laser Product	
Power Consumption	21-60 VDC Input Laser & Stills: 30W LED Strobe: 30W @ 1Hz, 2ms	
Data Interface	Ethernet, TCP/IP Communication	
Depth Rating	1000m or 4000m	
Data Storage	Onboard (2TB), Topside, Network	
Data Acquisition	ViewLS Software C++ API Factory Calibrated Acquisition modes: Dynamic Laser Scanning & Imaging	
Export Data Formats	Laser: .XYZ (CSV), LAS Publishing Stills: .JPG, .TIFF	
3rd Party Integrations	EIVA NaviSuite, QPS QINSy, HYPACK HYSWEEP, Pix4D	
Stills Camera	4112 x 3008 (12.4 MP)- Colour Imaging, onboard enhancement Horizontal: 56° Vertical: 42° - 4 FPS (max)	
Lighting (Stills)	White Light, 500,000 lumens, 32 LEDs	



STATIC & DYNAMIC LASER SCANNERS
INSIGHT PRO



The Insight Pro is a long range laser scanner designed for wide area 3D modelling from dynamic and static platforms. The proven design has been deployed since 2013, scanning over 10,000km of subsea pipeline, seabed, and subsea structures.

The Insight Pro has been integrated with countless AUVs and ROVs, simplifying integration with software API that enables autonomous control, and off-the-shelf support of standard vehicle navigation systems. The data is processed in real-time onboard the system to enable machine learning applications like defect detection and pipeline following.

Benefits and Features



High-speed and long-range data



Simple Integration



Real-time actionable data

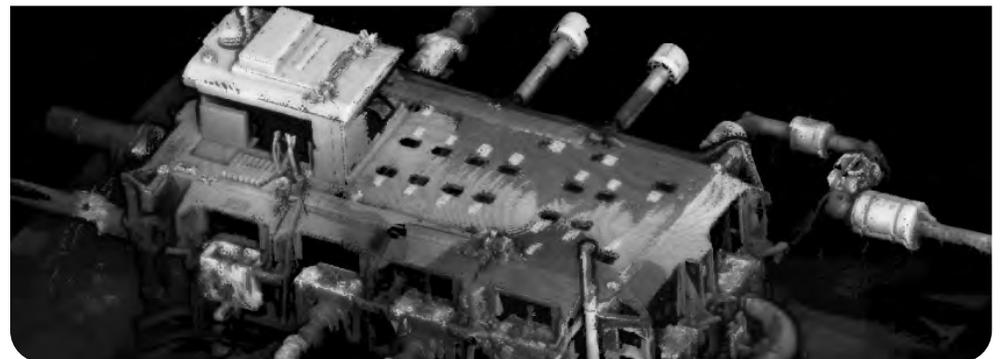
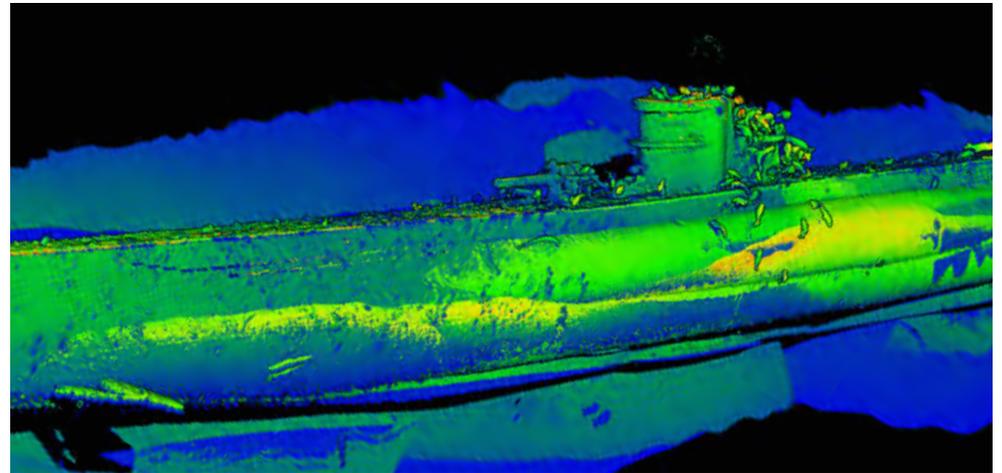
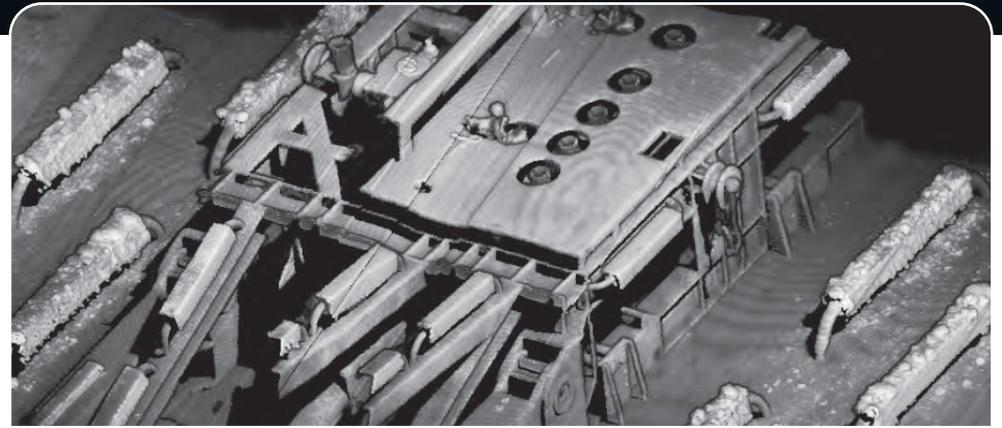


Proven reliability on AUV's & ROV's since 2013



SPECIFICATIONS Insight Pro

FEATURE	DESCRIPTION	
Scan Range*	1.5m - 15m	
Points Per Line**	2048 data points 50° angle of view	
X Resolution (Along laser line)	1.3mm @ 3m 2.3mm @ 5m	4.5mm @ 10m 6.7mm @ 15m
Y Resolution (Profile to Profile)	2.8mm @ 0.5 knot 11.1mm @ 2 knot	22.2mm @ 4 knot
Z Resolution (Depth Resolution)	0.2mm @ 3m 0.5mm @ 5m	1.9mm @ 7m 4.1mm @ 10m
Profile Rate	90Hz Laser with range lighting	
Laser 	Max output: <75mW Pulse duration: 1mSec to CW Wavelength: 450nm +/- 10nm Temperature Controlled	WARNING: LASER RADIATION AVOID DIRECT EYE EXPOSURE Class 3R Laser Product
Power Consumption	60W, 24-60 VDC	
Data Interface	Ethernet, TCP/IP Communication	
Depth Rating	4500m or 6000m	
Data Storage	Network Storage	
Data Acquisition	ViewLS Software C++ API Factory Calibrated	
Export Data Formats	Laser: .XYZ (CSV), LAS Publishing	
3rd Party Integrations	EIVA NaviSuite, QPS QINSy, HYPACK HYSWEEP	



Accessories and Support



Voyis Protect

Keep your Laser Scanners performing like new with precision diagnostics, certified recalibration, and trusted care.

Your Voyis Laser Scanner is engineered for reliable underwater performance, but harsh environments and frequent use demand regular upkeep. Voyis Protect provides proactive servicing, including updated accuracy verification, a new certificate of conformance, image quality checks, and the latest software updates, ensuring your laser continues to deliver high-performance measurements.



Voyis Support

Our team provides targeted expertise to ensure reliable results, efficient mobilization, and high-quality data

The Voyis Support Program is designed to help users execute successful underwater visual surveys and photogrammetry projects, from planning to final 3D deliverables. Whether you're an asset owner looking to outsource full survey services, or a survey company deploying Voyis hardware independently, and seeking our expertise to ensure success.

Contact sales@voyis.com to illuminate more about any of our additional services, accessories or product offerings.





VOYIS 

Illuminate The Unknown

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