



Capture Incredibly Detailed Data

Our Recon AUV Payloads offer both stills imaging and laser data. The Recon comes outfitted with our high-resolution AUV camera payload and the Recon LS has a dynamic 3D laser scanner added to the package.

Benefits & Features



Increase Your AUVs Capabilities

The Recon is a modular upgrade for existing platforms with pre-configured optical modules



Real-Time Data Processing

Onboard image enhancement and laser processing means faster results



Complete Optical Survey Solution

The Recon has fully integrated power, processing, and data storage components



Customer Support

Find the best solution for your project and simplify the integration process.



Efficient Workflow

Time or location based target extraction allows you to rapidly download data of interest from large datasets





Find The Right Product For Your Project

Choose the standard Recon package for high resolution AUV imaging, or select the Recon LS to add a dynamic 3D laser scanner for quantitative analysis.





Recon

Our high-resolution camera payload with modular payload options for wide area optical mapping and target identification from autonomous underwater vehicles.

View All Details

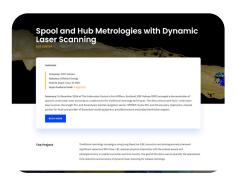
Recon LS

Our Recon AUV camera payload but with an Insight laser scanner. Uses existing vehicle navigation data to produce wide area 3D models.

View All Details

Case Studies

Click on a case study to read how some of our customers have used Voyis products.









AUV PAYLOAD Recon The Recon is the first high-resolution optical imaging payload for high-speed AUVs, delivering crisp images with onboard image enhancement. With proven integration on both small and large vehicles, it's simple to add or retrofit the modular payload onto your autonomous underwater vehicle.

All electronics are integrated into a payload module that directly interfaces with the target AUV and connects to a hydrodynamic lightbar that evenly projects light across the camera's field of view. Upgrade your low-grade camera to the Recon stills imaging

payload to enhance your underwater vehicle's capabilities.



At A Glance

An overview of the main benefits to using the Recon payload for your project.

- Crisp 12MP stills images at high speeds
 Proven solution for standard AUVs
- Wide field of view for maximum coverage Faster results with real-time enhancement

Recon Specifications Integration drawings available - contact sales

Feature	Small AUVs	Medium AUVs	Large AUVs	
Sensor	CMOS 1.1", Global Shutter Colour or Monochrome	CMOS 1.1", Global Shutter Colour or Monochrome	sCMOS 4.3", Global Shutter, Actively cooled - 5MP CMOS 1.1", Global Shutter - 12MP Colour or Monochrome	
Resolution	4112 x 3008 - 12MP	2464 x 2056 - 5MP 4112 x 3008 - 12MP	2560 x 2160 4112 x 3008	
Lens	8.5mm, F2.8 12mm, F2.0	6mm, F2.1 - 5MP 12mm, F2.0 - 12MP	12mm, F2.0	
Bit-Depth	12-bit	12-bit	12-bit, 16-bit	
Max Range	5m	7m	> 10m	
Field of View	H: 79°, V:62° H: 60°, V:46°	H:50°, V:43° - 5MP H: 60°, V:46° - 12MP	H: 50°, V:44° - Mono H: 68°, V:59° - Colour H: 60°, V:46°	
Frame Rates	4Hz	4Hz	5Hz	
Time Synchronization	PPS - NTP option	PPS - NTP option	PPS - NTP option	
Power Consumption	35W max	Camera:53W, LED:5-60W	Camera: 35W, LED: 5-60W	
Buoyancy	Neutrally buoyant	N/A	N/A	
Depth Rating	100m or 300m	1000m	4000m or 6000m	
Light Output	250,000 lumens	500,000 lumens	500,000 lumens	
Data Storage	2TB Solid State Drive	2TB Solid State Drive Control Computer or NAS		





vehicle with the Recon to gain a complete visual understanding of your environment.



At A Glance

An overview of the main benefits of using the Recon LS.

Efficient 50W power draw for long surveys

Uses vehicle's existing navigation

Simplified vehicle integration

Recon LS Specifications Integration drawings available - contact sales

Feature	Small AUVs	Medium AUVs		Large AUVs
Scan Range	1.2m - 7m	1.2m - 7m		1.5m - 15m
Points Per Line	2464	2464		2048
Angle of View	50°	50°		50°
Profile Rate	58HZ Laser + 2Hz Stills	58Hz Laser + 2Hz Stills		50Hz Laser + 3Hz Stills
Data Formats	.XYZ (CSV), LAS Publishing	.XYZ (CSV), LAS Publishing		.XYZ (CSV), LAS Publishing
X Resolution (across-track)	1.1mm @ 3m 1.9mm @ 5m 2.6mm @ 7m	1.1mm @ 3m 1.9mm @ 5m 2.6mm @ 7m		1.3mm @ 3m 2.3mm @ 5m 4.5mm @ 10m
Y-Resolution (along-track)	25mm @ 3 Knot	25mm @ 3 Knot		30mm @ 3 Knot
Laser 🗼	Max output: <75mW Pulse duration: 1mSec to CW Wavelength: 450nm +/- 10nm	WARNING - LASER RADIATION AVOID EXPOSURE TO BEAM Class 3B Laser Product		

VOYIS

Illuminate The Unknown

For More Information Contact sales@voyis.com

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