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Oceaneering Visual Metrology

Using Advanced Subsea Photogrammetry to Improve Inspection Data Collection

Machine vision gives robotic platforms the ability to see, analyse, and act.

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Leveraging **Oceaneering's existing services & experience** in IMR and Survey, while **incorporating technologies** to **drive operational efficiencies & results**.

- **Reduce** specialist equipment required for operations
- **Improve** operational efficiency & leverage remote capability
- **Reduce** carbon footprint of operations
- **Improve** data delivery to clients utilising Oceaneering data management solutions
- **Leverage** Oceaneering experience in survey and inspection.

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Advanced Subsea Visual Metrology (ASVM)

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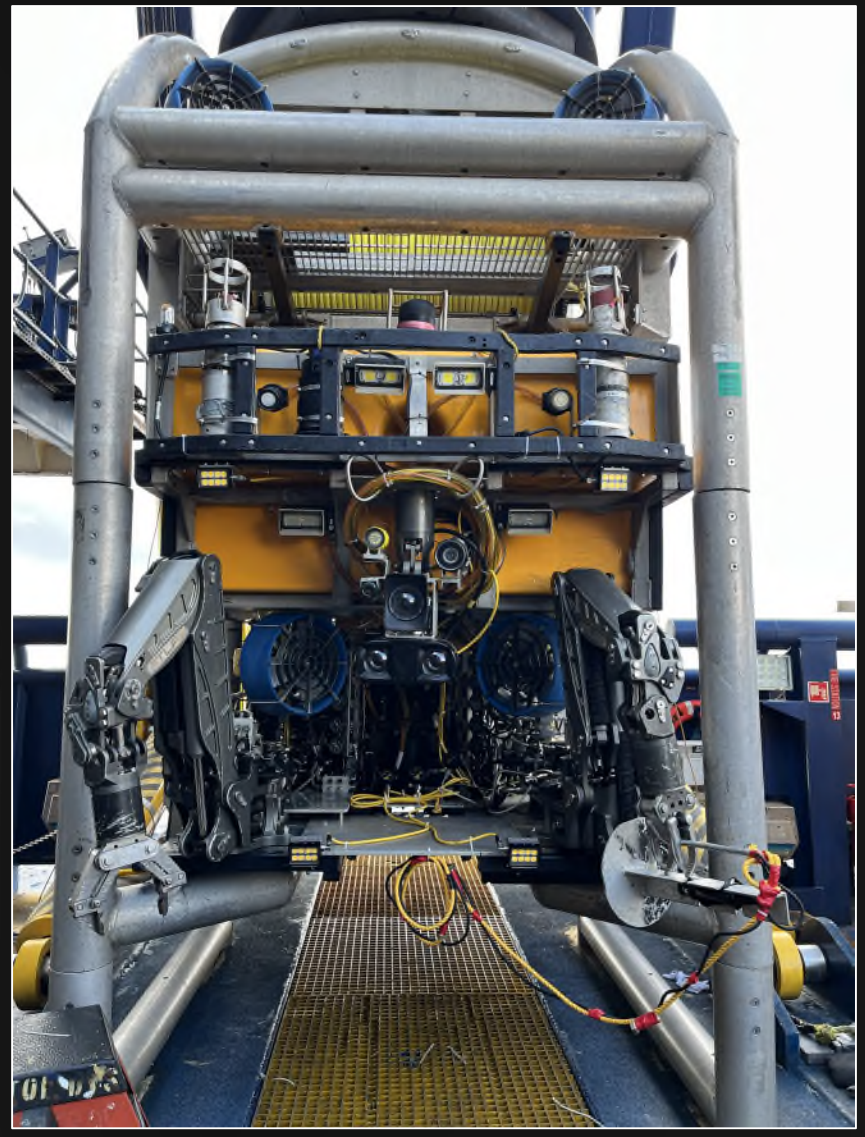
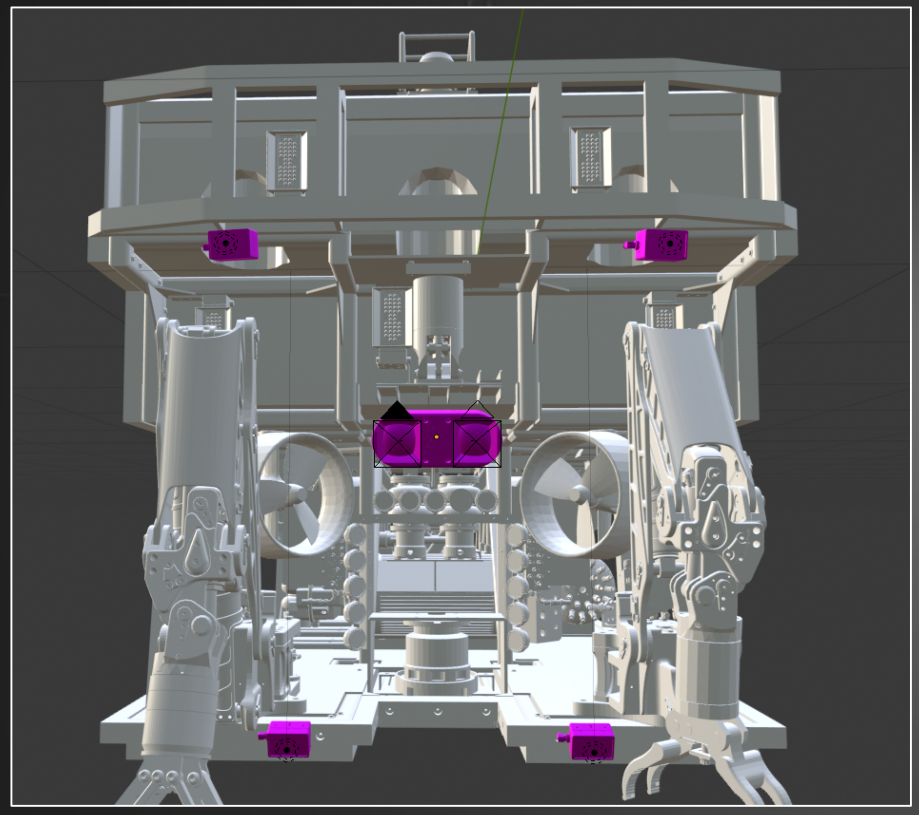


- 4K low latency video stream — for optimal image resolution.
- Optically engineered domed viewports — for distortion reduction.
- Realtime onboard image enhancement — for true image color & distortion correction
- Survey sensor synchronization — for simultaneous data acquisition.
- High power LED strobe lighting — to reduce effects of turbidity and motion blur.
- Calibration Chart — for validation of parameters subsea



Recent Campaign Results

Overview Profiles

Detailed Inspections

CVI Visual & 3D Data Results

Seabed Metrology

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Summary

Reduce specialist equipment spread required for operations

Improve operational efficiency & leverage remote capability

Reduce carbon footprint of operations in line with clients requirements

Improve data delivery to clients utilising Oceaneering data management solutions

Leverage existing Oceaneering experience in survey and inspection.

Use Cases

- Structural inspection
- Chain & mooring inspection
- UWILD Hull inspection
- Spool piece & Jumper metrologies
- Free-span measurement
- UXO identification

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Connecting What's Needed with What's Next™