



# Camera ID Payload

Stills Images AUV Payload for MCM

The Camera ID mission module enables man-portable AUVs to to execute remote mine identification with high resolution **stills image** data captured at high speed.

### Reduce Risk to Divers and Vessels

Remote camera identification minimizes minefield diver deployments by reducing false positives from sonar detection. Covert identification of multiple MLO's in single AUV mission.

### Maximize Operational Tempo

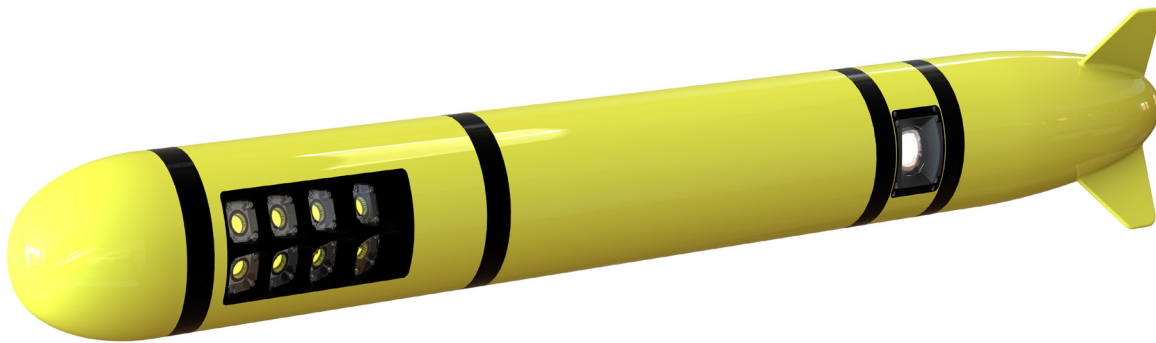
Onboard real-time data light correction and undistortion for rapid download and post mission analysis. Use AUV assets to reacqure targets and minimize sorties.

### Maximum Resolution from AUV Platform

4K resolution with a wide, 90° field-of-view camera for complete situational awareness. High output light and sensitive sensors enable crisp images compared to standard video cameras.

### Pre-Integrated for Existing AUVs

Drop-in upgrade for existing AUVs provides a flexible toolbox approach for platforms. An onboard hard drive and vehicle navigation support enables fully autonomous control and localization.

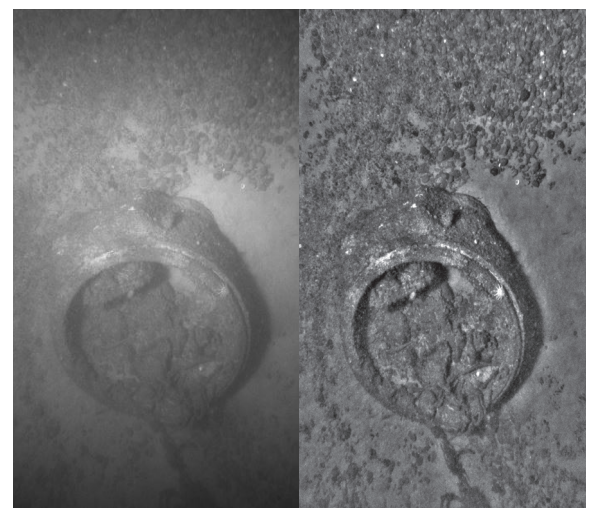


2G Camera ID Payload on Man-Portable AUV

Contact 2G Robotics for more information on your AUV type



OceanServer



Raw vs. Enhanced Image.



Torpedo mosaic collected on Kongsberg HUGIN

Mine image collected on REMUS 600



Specifications	
<b>2G Stills Camera</b>	
Camera Sensor	1.1" CMOS   12-bit
Camera Type	Monochrome
Resolution	4112 x 3008 (12.4 MP)
Sensitivity	> 70% Quantum Efficiency
Frame Rate	2 Hz (Real-time image processing)   4 Hz (Raw images only)
Signal to Noise	39.6 dB
Dynamic Range	76.0 dB
Field of View	90° diagonal, in water
Lens	Fixed - 8.5mm - F2.8
Image Processing	Real-time image undistort & light levelling
Data Format	Raw 12-bit .Tiff   Processed 8-bit .Tiff
Number of LEDs	8 or 16
LED Colour	Blue or White
Light Output	Up to 200,000 lumens (adjustable)
<b>System</b>	
Dimensions	130mm OD minimum - 200mm Length
Power	Stills Camera & LED Panel: 12W maximum
Time Synchronization	Synchronization to INS   PPS Time Synchronization
Communication	Ethernet
Control	Option 1: Wifi Accessible Windows GUI   Option 2: Mission Planning Integration with API
Data Download	Vehicle Gigabit Ethernet Network or External Bulkhead
Data Storage	2 TB Solid State Drive
Recording Time	22 Hours @ 2Hz Stills (8-bit Images)
Software	ViewLS Control GUI   ViewLS Data Processor (Navigation + Data Cleaning)   C++ API

Questions? Contact [sales@2GRobotics.com](mailto:sales@2GRobotics.com) to learn more