

MEPNN Supplier Scouting Opportunity Synopsis

Item Information

Scouting Number	2023-096
Item to be Scouted	Discovery 3D Stereo Camera
Days to be scouted	15
Description	The Oceanic and Atmospheric Research (OAR) Great Lakes Environmental Research Laboratory (GLERL) needs to procure one Voyis Imaging Inc. Discovery 3D Stereo Camera. The camera is to be installed and used on a Saab Falcon ROV.
State item to be used in	Michigan

Contact Information

Email	stephanie.long@noaa.gov
First Name	Stephanie
Last Name	Long
Department / Company / MEP Center	Commerce, Department of
Bureau / Division / MEP Center Regional Office	National Oceanic and Atmospheric Administration (NOAA)

Supplier Information

Type of supplier being sought	Manufacturer
Reason	Other
Details	Buy American Waiver

Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible)	The Discovery 3D stereo camera consists of two accurately co-located digital stills cameras within a single housing capturing up to 30 Hz and synchronized with a high-powered LED strobe array. The camera has the capability to produce real-time depth maps and actionable datasets allowing 3D models of benthic habitat using commercially available photogrammetry software. Additional information can be found on the attached specs sheet.
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Provide dimensions / size / tolerances / performance specifications for the item	<p>Product Features:</p> <ul style="list-style-type: none"> • Real-time image processing with active light levelling in the live viedostream • Designed for 3D modeling in tandem with general video inspection (GVI) • Low latency 4k videostream derived from stills imaging and ultra wide field of vision (FOV) and lossless sensor zoom (LSZ) • Simplified integration with tightly coupled ultra-bright Nova Mini LEDs, DDS architecture, and ROS support simply integrations with ROVs. <p>Product Specifications: Camera 8.1MP (2816x2816), color sensor, 20 FPS (1:1), 30 FPS (16:9) Lens 130x130 degree – fixed focus, digital zoom Latency 4k: <250ms (glass-to-glass) Operating Range 0.1m to 0.5m Lighting 125,000 lumens with 2x Nova Mini lights control: on, strobe (3.5ms max), off Depth Range 300m Calibration Camera (undistortion), IMU-Camera Offset Onboard Processing Image undistortion, color & lighting correction Data Outputs Raw images (12-bit .TIFF), processed images (8-bit .JPG), video (H.264), IMU data 3rd Party Integrations 3D software: EIVA VSLAM (real-time), Reality Capture, Pix4D Power Input: 24VDC (21-28V), Camera: 35W @ 30Hz, LEDES (4x): 43W @ 20 FPS, 2ms Strobe Interface Gbit or 10/100 ethernet, Bandwidth control – 5mbps minimum, Window & Linux GUI, DDS support, software control API Time Synchronization PPS, PTP, NTP Data Storage 1TB SSD</p>
List required materials needed to make the product, including materials of product components	The required materials are unknown outside of the information provided on the attached specs sheet.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Additional Technical Comments	The stereo camera must be fully compatible (form, fit, and function) to be mounted onto the Saab Falcon ROV without need for modification. Similar camera systems were sent to the program office's technical subject matter experts for evaluation including Imaging Source's 3D Stereo Camera System, and Nerian's Scarlet 3D Depth Camera. I am still waiting for a response.

Volume and Pricing

Estimated potential business volume	One-time purchase of one (1) Discover 3D Stereo Camera.
Estimated target price / unit cost information (if unavailable explain)	Estimated aggregate of \$75,000.00.

Delivery Requirements

When is it needed by?	Deliver by January 30, 2024.
Describe packaging requirements	Additional packaging requirements are not specified.
Where will this item be shipped?	Ann Arbor, MI

Additional Comments

Is there other information you would like to include?

This is a Simplified Acquisition, which has a shorter lead time to completion than an action over \$250,000.00. It is expected that this requirement will be awarded within the next 60 days, and any timely scouting (requested completed within 15 days from submission) would be appreciated to align with Simplified Acquisition requirements for posting and the Buy American Act Waiver process.