



Marine AI

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03 December 2021

PRESS RELEASE

Unmanned Survey Solutions (USS) adopts GUARDIAN Vision by Marine AI



Unmanned Survey Solutions (USS), a UK company that designs, builds and operates next-generation Unmanned Surface Vessels (USV's), has adopted Marine AI's 'GUARDIAN Vision' AI (Artificial Intelligence) software. These USV's are versatile and provide a cost-effective solution for a range of hydrographic charting capabilities, and GUARDIAN Vision provides a COLREG-compliant control system for safety and path planning.

Marine AI was delighted to host USS at the Southwest's Marine Autonomous Hub in Turnchapel, Plymouth, for two days of on-water testing and development. The main focus was the testing of its game-changing suite of plug-ins for GUARDIAN Vision, a NVIDIA based CV (computer vision) system. The advantage of the new plug-ins is the increased speed to detect and identify objects but also making it more straightforward to customise solutions to meet customer requirements.

GUARDIAN Vision offers multi-platform, scalable, TLS-encrypted security that can be deployed on the edge, for AI Vision applications and services. Plug-ins are used in conjunction with the core CV capability to provide real-time, distinct technical solutions for different CV sectors:

- Waterline Detection and Correction
- Low Light Enhancement
- Digital Video Stabilisation

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- Object Direction Estimation
- Object Detection and Labelling
- Object Classification
- Object Tracking
- LOMO (Low observable marine object) Detection

Matthew Ratsey, MD of Marine AI, announced, “we are delighted to be working with James Williams and his team at Unmanned Survey Solutions; it was great to see again how our agnostic software can be successfully deployed and utilised for USV operations. We very much look forward to assisting USS as their USV operations continue to increase in scope and number.”

“The GUARDIAN Vision package is impressive; the plug-ins analyse the feed from the vessel’s sensors and quickly relay the positional information on these hazards to the onboard control system and the remote pilot. GUARDIAN Vision significantly enhances our situational awareness and therefore the safety of the vessel, and vessels in the surrounding area”, said James Williams, Director of USS.

Further information:

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Notes to Editors:

Marine AI is a software engineering firm specialising in edge-based artificial intelligence software. Our aim is to deliver sensor-driven cognitive artificial intelligence to enhance maritime capabilities, on or below, the water.

www.marineai.co.uk

Unmanned Survey Solutions (USS) offers robust, cost-effective and versatile solutions for surveying in all waters from inland lakes and coastal zones to offshore environments. The modular design concept of USS’s Accession Unmanned Surface Vessel (USV) gives the surveyor unprecedented versatility for different applications.

www.unmannedsurveysolutions.com

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