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ROBIN RADAR AND OPENWORKS ESTABLISH HIGH-SPEED CUAS OTM

The Hague: Achieving speeds of up to 100kph, OpenWorks Engineering and Robin Radar Systems showcased on-the-move (OTM) with stabilised AI-powered EO/IR and AI 3D radar. Proving again, that collaboration leads to success.

OpenWorks Engineering and Robin Radar Systems are proud to announce the first customer demonstration of a fully autonomous OTM capability. The results will be presented at DSEI in London, in September.

Vision Flex is a highly configurable optical system that has a variety of upgrade packages to allow it to be configured for static or mobile applications. For demanding vehicle installations, it makes use of Inertial Navigation Systems, Dual-GPS and a custom balanced-gyro mount. This allows precise automated slew-to-cue, using AI classification, and close target tracking at long range for target identification.

IRIS® is a full 3D counter-drone radar and with added on-the-move capability, the system can detect and classify drones while deployed on a moving vehicle or platform with speeds of up to 100km/h. IRIS® OTM tracks drones while on the move, providing height information as well as the position of tracked drones in all directions, giving users an early warning of approaching drones and precious time to react.

Chris Down, Managing Director of OpenWorks Engineering said, “We are very proud of all that has been gained by bringing together these well-matched AI-powered high-accuracy sensors. There was high repeatability in autonomous slew-to-cues both at high speed and during complex manoeuvres. This could not have been achieved so readily without continued collaboration between the OpenWorks and Robin Radar teams.”

Marcel Verdonk, Chief Commercial Officer of Robin Radar Systems, said, "It's fantastic that Robin is continuing to push for innovation with our trusted partner, OpenWorks. This integration shows how fast two-step drone classification can be, especially when using radar detection to close in optical tracking. With the addition of proven on-the-move capability, this unique integration will especially benefit military and police end-users who need to protect vehicle convoys and personnel while on the move."

Vision Flex and IRIS® are already deployed in multi-sensor integrated CUAS systems worldwide. IRIS® provides long-range 3D radar detection and classification using advanced micro-doppler technology enhanced with Deep Neural Network (DNN) capabilities. Vision Flex provides fully autonomous optical classification and tracking, using embedded twin-AI with EO/IR sensors.

OpenWorks Engineering has had a year of innovation; launching new capabilities like Vision Flex CUAS used in the Robin Radar and OpenWorks testing. This multi-role, autonomous optical surveillance has targeting and tracking capabilities for a range of applications. E.g. Border Protection, Maritime and Coastal surveillance, Base Protection, Homeland Security and UGS/USV.

The trip to the Netherlands comes at a perfect juncture - a few weeks before the largest defence show, The DSEI in London, where OpenWorks Engineering will be exhibiting. Alongside their current CUAS systems SKYWALL and SKYAI, they will be exhibiting the Robin Radar and OpenWorks collaboration and the new Vision Flex CUAS. Contact the OpenWorks team at stand H2-828.

About OPENWORKS: OpenWorks Engineering manufactures and develops security and counter-terrorism products. It offers drone capture systems, deployable and scalable anti-drone defeat systems, drones, artificial intelligence-powered optical detection and tracking systems, handheld and autonomous net capture devices, and more. The company caters to the aerospace, space, and defence industries. OpenWorks has developed innovative technologies that are already deployed in integrated counter-drone systems used by the world’s leading security and counter-terrorism authorities.

About ROBIN RADAR SYSTEMS: Robin is one of the fastest-growing technology companies in the Netherlands, providing actionable information to increase safety and security with its bird and drone radars. Its bird radars are used for bird strike avoidance at civil and military airports globally, as well as for mitigating the impact of wind farms on birds. Its drone radars are used at airports, and for protecting critical infrastructure, military installations, and security events the world over. Robin’s installed base of radars is over 200 and counting. For more info, visit www.robinradar.com