

SKYWALL

NEWS IN BRIEF



OPENWORKS

OPENWORKS ENGINEERING'S ROUND UP OF NEWS, UPDATES AND DEVELOPMENTS

A NOTE FROM OUR MANAGING DIRECTOR

LAUNCH COMING SOON

OpenWorks continues to make great strides forward in its technology development and is excited about the upcoming launch of SkyTrack. This is a leap forward in tracking drones and AI and we are looking forward to working with end users and integrators using this new technology.



CHRIS DOWN,
MANAGING DIRECTOR

SKYTRACK

**FAST ACTING AI-POWERED
OPTICAL DETECTION AND TRACKING
FOR INTEGRATED SYSTEMS**



SkyTrack will be formally launched very soon having recently completed integrator and end user trials.

Please contact us for further information if you can't wait, you're not alone!

Email info@openworksenvironment.com or call +44 1434 400469.

LATEST NEWS:

CANADIAN AUTHORITIES OPTICALLY DETECT AND TRACK DRONES WITH SKYTRACK

Canadian authorities recently conducted performance testing on the soon to be released SkyTrack system from OpenWorks. This follows the integration testing that was completed in Germany by ESG Elektroniksystem- und Logistik-GmbH, earlier this year.

Canadian authorities represent the first end-users to operate the system, as they stay at the forefront of C-UAS technology. Testing SkyTrack as part of their search for the latest generation of optical UAS detection and tracking technology.

Pilots flew Class 1 UAS such as the DJI Inspire and Mavic UAS to evaluate the autonomous detect and classification ranges achievable in both day and night environments. SkyTrack was able to successfully detect and track the DJI Mavic out to 2km, showing world class performance. The DJI Inspire was tracked to 2.5km and the pilots could not out-manoeuvre the 'lock' of SkyTrack.

The system was manually cued onto the target during these tests which demonstrated a standalone operational capability. To achieve the greatest performance, SkyTrack is integrated using the proven SkyWall interface, receiving data from drone detection sensors, RF or radar, for a rapid handover to smooth target tracking. This has already been proven with Flir, Qinetiq and Robin Radar systems previously.

Chris Down, Managing Director at OpenWorks, said: "We demonstrated SkyTrack's capabilities to the Canadian Authorities and were pleased when they asked us to fly the system out for further evaluation. We know this end-user community well and understand they have the highest demands for their security technology and performance. While the focus of this testing was drone threats, we are also excited to show the system performing against other tactical threats during the next stage of testing, making use of the powerful onboard AI"



KEY FEATURES:

- Low cost - High Performance
- Built-in-AI Deep Learning
- Manual or Autonomous Target Selection
- Externally Cued or Manual Operation
- Simple Integration
- HD Day and Night Operation
- UAS and non-UAS Targeting

GUARDION PUTS SKYTRACK TO THE TEST AHEAD OF ITS UPCOMING LAUNCH

SkyTrack represents the latest in optical UAS detection and tracking technology and ESG Elektroniksystem- und Logistik-GmbH, lead integrator of the GUARDION C-UAS system, are the first to put SkyTrack through its paces ahead of first customer trials and the formal product launch.

SkyTrack can be integrated with any type of UAS primary detection to reduce the low false alarm rate. Once the drone is detected, location data is streamed to SkyTrack causing it to quickly react, finding it in the sky using powerful AI computer vision. High-definition daylight and infrared cameras are coupled to highly accurate controls allowing for autonomous confirmation of the UAS presence. Video is streamed directly to the operator, allowing the freedom to concentrate on mission critical decisions.

ESG take pride in carefully testing and selecting best-of-breed technologies to provide for each element of the C-UAS solution. During the testing in Bavaria in Germany, SkyTrack was able to autonomously detect, classify and track small Class 1 UAS up to 2km of range without input from the operator.

All of the deployed technologies and products are linked together using a command-and-control system that was originally developed for the military: TARANIS® by ESG. Based near Munich in Germany, ESG have identified the most capable products that mitigate the drone threat and united them into a layered defence system to achieve a highly capable complete system, called "GUARDION"

SkyTrack will be deployed by authorities around the world as part of the solution to the growing threats posed by the misuse of drones. SkyWall optical tracking technology has developed hugely since it was first shown at the Army Warfighter Experiment in 2017, where it was originally developed to provide the accuracy required to follow a UAS with a laser range finder for fire control.

SKYWALL PATROL ANNUAL SERVICING & TRAINING

As the year draws to a close, OpenWorks has been conducting annual services on existing customer's systems, having been returned from operational use. It's great to see equipment that has been in the hands of end users and remains well maintained and ready for action. We take great pride in supporting our customers after delivery of equipment.

Both our re-accreditation training courses and SkyWall Patrol training courses have continued for European police forces despite the challenges faced with COVID-19.



US ARMY CONDUCT EVALUATION OF SKYWALL PATROL THROUGH TRAINING SCENARIOS



An evaluation of OpenWorks Engineering's, SkyWall net capture system was recently conducted by the US Army in Longare, Italy. Soldiers were trained to operate SkyWall Patrol to capture static and moving target scenarios, as part of the US Army in Africa mission to bring new technology to the region. The US Army soldiers achieved captures after minimal training and were able to operate the system effectively and safely in live demonstrations. Sgt. Kiara Perez was amongst the trained operators and is the first female US Service Member to operate the system.

Law enforcement officers from the Carabinieri also participated in the exercise. As the use of drones in domestic crime and terrorist attacks becomes more likely, the police require safe and low risk options to counter the threat.

Lt. Col. Joseph McCarty described SkyWall Patrol as: *"A non-lethal air compression launcher that fires a projectile that will deploy a net to capture the drone, and instead of falling and crashing to the ground, it deploys a parachute so the drone remains intact."*