



PRESS RELEASE

SKY-HERO SA

## **HOW A UNIFIED TACTICAL INDOOR RECON ROBOTS SYSTEM, PROVIDES ENHANCED ADVANTAGE TO POLICE AND MILITARY SPECIAL FORCES UNITS VIA MULTI-FEED REAL-TIME ACTIONABLE INTELLIGENCE**

23.05.2022

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**The indoor tactical reconnaissance robotics suite from SKY-HERO is undergoing a huge expansion in 2022, providing tactical operators with access to an easy-to-use, intelligent recon ecosystem that revolutionizes mission safety.**

**Since 2016, military, law enforcement, government, and security teams around the globe have been able to benefit from an innovative indoor tactical sUAV, the highly successful Loki<sup>MklII</sup> (aerial robot | drone) It has already adopted by more than 1,000 teams across five continents, including 20 EU countries, 47 US states, and all 10 Canadian provinces. Today, SKY-HERO enhances its suite, with a completely new unmanned vehicle the Sigyn<sup>Mkl</sup> (ground robot | rover). In the form of a compact, throwable, tactical sUGV robot, it delivers superior ground scouting within complex and unsafe under-cover areas.**

**Typically deployed in GPS-denied, ultra-confined, indoor, and hostile environments, these two specialised unmanned vehicles are operated by the same controller in order to considerably improve assault tactics, operator safety, and the outcome of each recon mission. Additional non-lethal payloads will add complementary capabilities for effective threat response, further expanding the options available to the assault teams.**

**Operating in unison and controlled by a proprietary smart operating software, these tactical robot devices create the first-ever Unified Tactical Indoor Recon Robots System. The system provides urgently needed functionality for gathering critical information and precise situational awareness intel via highly maneuverable aerial (and now terrestrial) robots featuring sophisticated sensors and advanced algorithms.**

Fully designed, tested, and constructed in Europe and the United States, in conjunction with the world's top counter-terrorism units, SKY-HERO's Unified Tactical Indoor Recon Robots System appears today as the ideal reconnaissance platform for intervention units. Irrespective of the indoor context type, it guarantees more safety and real-time data intelligence, direct from the field of operation.

Security and Defence teams already relying for more than 5 years on Loki drones for their daily scouting ops, can now benefit from a genuinely new, additional, ground support robot - based on similar advanced technologies and of course, bringing its share of unique operational advantages.

The new Sigyn<sup>Mkl</sup> sUGV reconnaissance robot is a rugged, simple-to-use, throwable ground device, conceived to deliver terrestrial scouting support in difficult-to-access and hazardous places.

The purpose-built rover is made with aviation-grade carbon fiber and reinforced with polycarbonate frames for a rugged but lightweight build, allowing the operator to deploy the rover

with a single-handed throw. It provides the operator with front and back wide-angle ultra-sensitive Day-Night camera, eight dimmable IR LEDs, and a payload connection system to execute complex tactical missions from a safe stand-off distance and under any light conditions. An embedded inertial motion sensor allows smart drive modes and automatic-selection of the forward-facing camera. It uses market-standard batteries, replaceable within 30 seconds. Quieter than a sUAV, it allows a more discreet approach to identify potential threats or unknown dangers.

Just like the Loki<sup>MkII</sup>, the Sigyn<sup>MkI</sup> is operated via the , GCS<sup>MkII</sup> handheld controller, providing strong AES 256 encryption and diversified analog audio-video receptors which prohibit signal interception whilst also securing all vehicle, payload, and intelligence data. This small but rugged controller also allows a single operator to simultaneously control any 4-device combination of the Loki sUAS and/or Sigyn UGVs.

Additionally, a new Tactical Wrist Viewer is available, which allows other team members to choose between (and watch) any of the four device feeds, regardless of which device is currently being controlled. The new suite of payloads, from diversionary devices to sensors, will expand further to support the Sigyn<sup>MkI</sup> and will also be interchangeable between both unmanned vehicles.

All those tactical components are seamlessly integrated into the SKY-HERO's Unified Tactical Indoor Recon Robots System. They all benefit from our smart operating software, Odyssey, infusing the entire tactical robots ecosystem with innovative algorithms and artificial intelligence. Odyssey supports the operation of multiple SKY-HERO vehicles (sUAV/sUGV), sensors, payloads, data links, and other sub-systems via just one operator control station, which is capable of handling all those advanced operations at the same time by combining intelligence with high-performance and unrivaled capabilities.

Our in-house, custom software is the true and vital “central nervous system” of this unique Unified Indoor Tactical Recon Robots system, orchestrating all the deployed aerial and terrestrial vehicles simultaneously, in order to enable the execution of high profile and time-sensitive missions by allowing operators to focus on the success of their mission.

*SKY-HERO is a 10-year-old Belgian company of high-level engineers and professionals that uses its depth of robotic and unmanned vehicles expertise to equip law enforcement and security forces with the most appropriate system to answer their most pressing challenges. Today, thanks to all this combined expertise and knowledge, SKY-HERO asserts itself as the world-leading designer and manufacturer of a Unified Indoor Tactical Recon Robots System, consisting of innovative software and an extended range of high-end indoor unmanned robotic vehicles (sUAV/sUGV), dedicated to a wide range of tactical situations, radically improving operators' scouting and decision-making capabilities.*

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