

TEAL 2 sUAS

The Teal 2 sUAS provides end users with the highest resolution thermal imaging in a small (Group 1) form factor. Its compact size and rugged design enables the system to be rucksack portable and deployed in the most challenging environments.



High-Res Imagery

Equipped with the Teledyne Flir Hadron 640R EO/IR sensor, optimized for nighttime operations.



Blue UAS Certified

Designed, built, and serviced in the USA.



Multi-Mission Capable

Multi-vehicle command and control provides a 360 degree view of a single target or ISR on multiple targets.



Tactical Ecosystem

Integration with third party artificial intelligence and computer vision applications enables 3D mapping, target acquisition, and other decision support features.



CONTROLLER AIRCRAFT



IMAGING SYSTEMS



HEAT SIGNATURES



SPECIFICATIONS

AIRCRAFT

Flight Time	30+ minutes*
Weight	2.75 lbs (1.25 kg)
Flight Speed	10 m/s (23 mph)
Max Flight Ceiling	10,000 ft (3048 m) MSL
Max Range (From Controller)	5 km
Operation Temp Range	-32 to 110 F (-35.6 to 43.3 C)
Flight Controller	MAVLink Compliant
Wind Limits	18 mph (16 kn) Sustained to 25 mph (22 kn) Gusts

TEAL AIR CONTROL (TAC)

Downlink Resolution	720p
Encryption	AES-256
Latency	~300ms
Software OS	Android
Battery Life	6 hours
Weight	3.7 lbs (1.68 kg)

*US Standard Atmosphere 1976, which is 59F, Sea Level, 29.92 Barometric Pressure

SENSOR

System	Dual Axis EO/IR Gimbal with Hadron 640R
EO Sensor	16MP, 67 degree HFOV
EO Video Recording	4000x3000 at 15fps
Gimbal Pitch Control Range	-120 to +120
IR Sensor	Boson 640 Radiometric, 32 degree HFOV
IR Video Recording	640x512 at 30Hz
Removable Storage	microSD Card
Recorded Video Format	MP4 and Transport Stream

PROCESSOR

Main Processor	Snapdragon 845
GPU	Adreno 630
CPU	Octa-core Kryo 385
Image Signal Processor	Spectra 280
Memory	6GB LPDDR4X



Purpose-Built for the Operator

Integrated and operator-friendly weapons system purpose-built for safety, reliability, flexibility, and ease of operation - activated at a moment's notice.

Lightweight & Man-Packable

Assemble & Deploy in Under 5 Minutes

VTOL to Launch from Anywhere

Electronic Safe & Arm Device (ESAD)

Modular Payloads up to 3lbs

Quick-Detach Field-Swappable Batteries



- 1 Foldable Arms
- 2 EO/IR Stabilized Gimbal
- 3 Modular Payload
- 4 Removable Battery

AI-Enabled Mission Flexibility

Advanced onboard AI/ML software delivers outsized performance and capability without specialized operator training.

Autonomous Waypoint Navigation

Target-Agnostic Computer Vision Tracking

Custom Standoff Positioning

360-Degree Attack Angles

Maintains Track Custody Through Occlusion



MYDEFENCE MOBILE C-UAS

Radio-frequency-based mitigation
of drones and controllers for
On-The-Move Missions.



MyDefence
Product Catalog



MYDEFENCE
COUNTER DRONE TECHNOLOGY

mydefence.dk
linkedin.com/mydefence/

sales@mydefence.dk
sales@mydefence.us

PRODUCT TYPE WITHIN
MYDEFENCE PRODUCT PORTFOLIO



Wearable



Vehicle/
Vessel



Fixed/
Transportable



Detection



Mitigation

Battle-Proven

drone detection actively
deployed by soldiers at
battle front lines.

Easy to Use

enables soldiers in intense
combat to focus on
primary tasks.

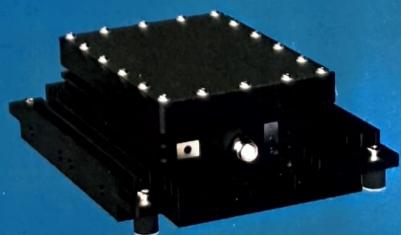
Low SWaP

enables flexible installation
& integration onto
multiple platforms.



Command & Control (C2)

Compatible with MyDefence
IRIS/ARGOS C2 Software and
other C2 systems.



Doberman 150/151 RF Jammer

MYDEFENCE DOBERMANN 150 RF JAMMER DOBERMANN 151 RF JAMMER (GNSS)



www.mydefence.com
info@mydefence.com

The MYDEFENCE Dobermann 150 and Dobermann 151 are compact, rugged RF-based devices designed to mitigate drones and their controllers. Their small form factors allows for flexible installation and integration onto land vehicles and sea vessels.

Complete Solution: Part of MyDefence's comprehensive solution for vehicles, which includes Watchdog 150/250 RF C-UAS sensors and MyDefence Command and Control software (IRIS front-end software and ARGOS server software).

Operational Modes: Easily switch between manual mode, allowing users to decide when to engage a UAS threat, and autonomous mode, which engages the jammer upon threat detection.

Multi-layered C-UAS Compatibility: The Dobermann 150/151 are networked and fully compatible with MyDefence Command and Control software, including IRIS front-end and ARGOS server software. They can be easily integrated into any C2 System, enabling them to fit into any multi-layered C-UAS approach.

Collaborative Jamming: Designed for collaborative jamming, each Dobermann jammer radiates low power individually, but together they create a high-power effect in the target area. This minimizes collateral damage while optimizing the effectiveness on the target.



Collaborative Jamming
enables high power effect
on targets



GPS Jamming
effective on
GPS-dependent UAS



Jam Drones and Controllers
for comprehensive
neutralization of the threat



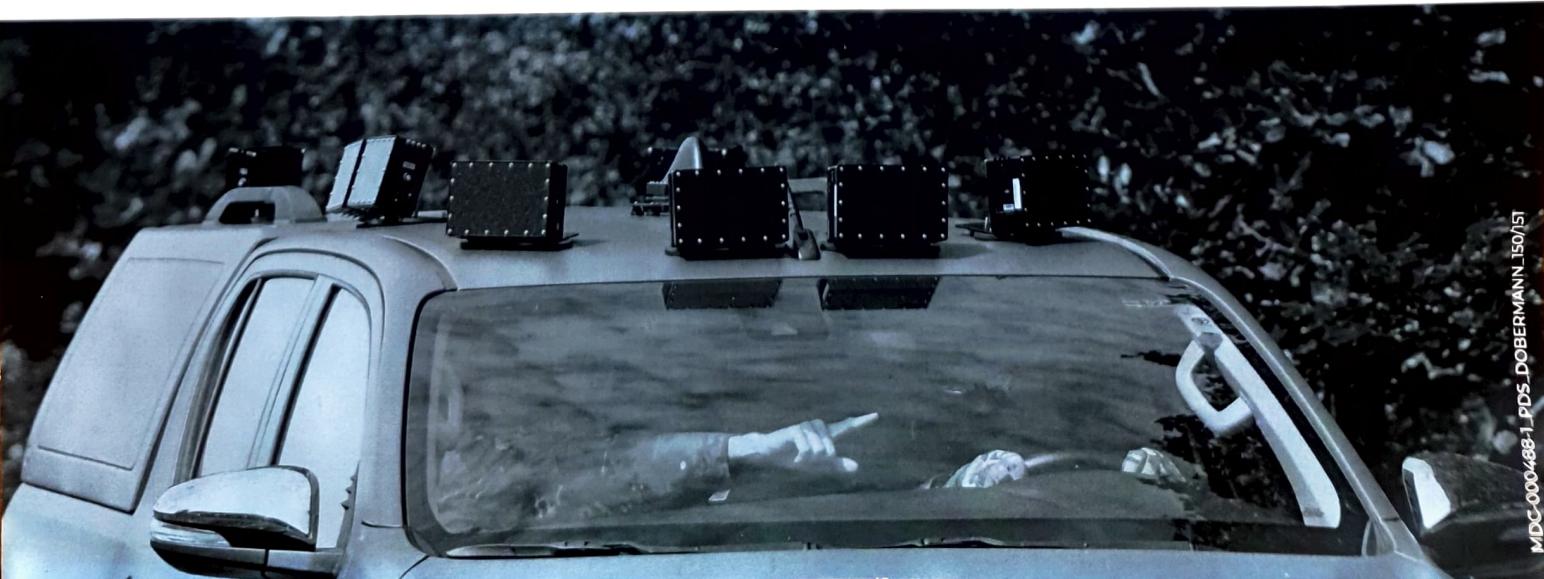
Flexible Integration
onto land vehicles or
sea vessels



Multi-layered Approach
networked jammer offers
integration into multi-layered
CUAS approach

SPECIFICATIONS

	MyDefence Dobermann 150 RF Jammer PN 90100094	MyDefence Dobermann 151 RF Jammer PN 90100095
Operational Specifications		
Jammer Frequencies	2.4 GHz, 5.2 GHz & 5.8 GHz	2.4 GHz, 5.2 GHz, 5.8 GHz & 1.6 GHz (GNSS)
Jammer Coverage Angle		Horizontal 60° / Vertical 60°
Jammer Ratio		Up to 80%
Operating temperature		-40°C to 65°C / -40°F 149 °F
Technical Specifications		
Power Supply	POE+ (Power over Ethernet)	
Power Consumption	25 W	
Physical Specifications		
Weight	1900 g / 67 oz.	
Length x Width x Height	180 x 180 x 158 mm / 7.09 x 7.09 x 6.22 in.	
Color	Black	
IP rating	IP68	



MYDEFENCE

FALCON DRONE PILOT LOCATOR

Enhanced Airborne Detection for
Superior Threat Mitigation



PRODUCT PORTFOLIO



Wearable



Vehicle/
Vessel



Airborne



Detection



Mitigation

Enhanced Detection Capability

Airborne sensor surpassing
ground-based detection.

Easy to Use
Simple integration and
user-friendly interface.

Situational Awareness:
Locates threats with
signals and live feeds.



Command & Control (C2)

Compatible with MyDefence
IRIS/ARGOS C2 Software and
other C2 systems.



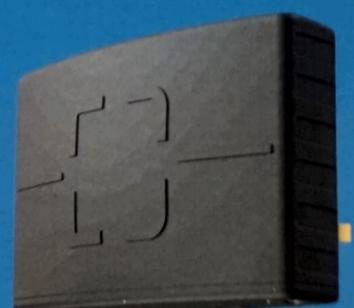
MyDefence
Product Catalog



MYDEFENCE
COUNTER DRONE TECHNOLOGY

mydefence.dk
linkedin.com/mydefence/

sales@mydefence.dk
sales@mydefence.us



FALCON

MYDEFENCE FALCON RF-SENSOR



FALCON is an airborne detector providing operators with real-time information on the location of drones and their pilots, surpassing land-based sensors. It enables threat mitigation by apprehending pilots, preventing current and future drone attacks.

By flying above obstacles, FALCON has an improved line of sight. When a controller is detected, the signal is tracked using FALCON's RF sensor, and the drone's camera identifies the threat.

FALCON simplifies locating drone pilots by providing the controller's signal direction, supported by a live camera feed from the carrying drone.



Detect Drones and Controllers
for comprehensive awareness of the threat



Extensive Drone Library
enables accurate classification and low false positives



Software Field Upgrades
enables product evolution without costly hardware upgrades

SPECIFICATIONS

Specifications	MyDefence FALCON Airborne RF Sensor PN
Operational Specs.	
Detection Range	Up to 10 km / 6.2 miles *
Detection Time	<10 s *
Effective Frequencies	2.4 GHz, 5.2 GHz, 5.8 GHz
Coverage angle (Horizontal)	90°
Coverage angle (Vertical)	90°
Dimensions	127 x 100 x 25 mm / 5 x 3,94 x 0,98 inch
Dimensions	250 G / 8,8 Oz

* Depending on the RF environment & line of sight.

MYDEFENCE

FIXED OR PORTABLE C-UAS

Passive radio frequency-based
detection of drones and controllers for
Mobile or Stationary Deployments.




MYDEFENCE
COUNTER DRONE TECHNOLOGY

mydefence.dk
linkedin.com/mydefence/

sales@mydefence.dk
sales@mydefence.us

PRODUCT PORTFOLIO



Wearable



Vehicle/
Vessel



Fixed/
Transportable



Detection



Mitigation

Battle-Proven

drone detection actively
deployed by soldiers at
front lines, e.g. Ukraine.

Easy to Use

enables soldiers in intense
combat to focus on
primary tasks.

Low SWaP

enables flexible installation
& integration onto
multiple platforms.



Command & Control (C2)

Compatible with MyDefence
IRIS/ARGOS C2 Software and
other C2 systems.



Wolfpack 210 RF Sensor

MYDEFENCE WOLFPACK 210 RF SENSOR (360°)



The Wolfpack 210 RF Sensor is a 360-degree radio frequency detection device designed to detect drones and their controllers.

Its compact design ensures maximum flexibility for installation and integration. The sensor can be easily deployed on fixed masts or perimeter structures, as well as on transportable tripods and smaller masts. It provides comprehensive three-dimensional security for strategic military assets, seamlessly integrating into your existing security infrastructure.

Command and Control (C2) is essential in the protection of strategic military assets. The Wolfpack 210 RF Sensor is compatible with MyDefence IRIS/ARGOS C2 Software as well as any C2 software system.

The Wolfpack 210 RF Sensor, is a plug and play networked system. For large perimeters, multiple systems can be deployed, which provides the additional advantage of UAS location triangulation.



Direction Finding
with accuracy within 5° RMS



Passive Detection
enables operators to
remain undetected



Detect Drones and Controllers
for comprehensive
awareness of the threat



Extensive Drone Library
enables accurate
classification and
low false positives



Software Field Upgrades
enables product evolution
without costly hardware
upgrades

SPECIFICATIONS

Specifications	MyDefence Wolfpack 210 RF Sensor PN 901000070
Operational Specs.	
Detection Range	Up to 10 km / 6.2 miles *
Detection Time	<10 s *
Effective Frequencies	433MHz, 868MHz, 915MHz, 1.2GHz, 2.4, 5.2 & 5.8 GHz
Coverage angle (Horizontal)	360°
Coverage angle (Vertical)	90°
Operating Temperature	-30°C til 60°C / -22°F til 140°F
Direction Finding Accuracy	5° RMS accuracy
Functional Specs.	
Operational Modes	Detection and Direction Finding
UAS Geolocation	Multiple units enable location triangulation
Technical Specs.	
Power Supply	36V Power Supply
Power Consumption	40W
Drone Classification Method	Proprietary Drone Library
Physical Specs.	
Weight	5 kg / 11 lbs
Dimensions	31,5 x 31,5 x 26 cm / 12.4 x 12.4 x 10.2 in
Color	Grey
IP	IP66
Mobile Mounting on Vehicles and Vessels	Top-Mount
Fixed-Site Mounting	Fixed Masts, Portable/Telescopic Masts, Tripods Ideal for perimeter protection, military camps, stations or other strategic military assets.

* Depending on the RF environment & line of sight.



FAC Technology

Drone Systems - Deep Air Carbon 10

Elevate your drone operations

Deep Air Carbon 10

10" FPV Quadcopter



22+ km range
with 3 kg payload

Long range FPV platform designed and built using award winning composite structures.

FAC Technology develops Advanced Materials for Defence including nanomodified composite UAS structures. Optimised to maximise performance and reduce weight, these structures are showcased on the Deep Air Carbon 10.



FAC Technology
ADOA

UK.AP1002



Composites UK

Trade Association
Industry Awards 2023
WINNER
Innovation in Composite Design



FAC Technology

Drone Systems - Deep Air Carbon 10

Specifications

Airframe

- Cutting edge patented UK aerospace composite frame
- Adapted to create **world championship winning racing drones*** outperforming solid carbon laminates in stiffness and tunability
- Technology won the **2023 Composites UK award** for 'Innovation in Composites Design'
- **Frame only - 279 g**, Complete system (excl. battery) - 982 g
- Tested to operate between -40° C to +70° C as well as in a large array of other hostile conditions



Electronics

- **EU manufactured flight stack**
- **Dual control link** receiver operating at both 915 MHz and 2.4 GHz
- Camera: **1500 TVL resolution**, 6 ms latency, 0.001 lux for low light operation
- Battery: 6s, **15000 mAh**, Lion, 1300 g
- Motors: 3115 900 kv, Propellers: **10-inch**

Capabilities

- **22+ km demonstrated range** with **3 kg** payload, ~ 40+ km range without load
- **130 km/h** speed with **3 kg** payload, 150 km/h speed without load
- Available with a ground control station providing 30 km control and video range as well as frequency hopping and beyond line-of-sight relay drone capabilities

Production

- Capacity up to 3000 units per month manufactured in the UK to ISO 9001
- 7-inch and 8-inch options available

*Evan Turner, aka HeadsupFPV, as Pilot: https://mpg.livefpv.com/results/?p=event_overall_ranking&id=438222

UFORCE

a group of Ukrainian drone and robotic platform manufacturers,
with flagship products including MAGURA and NEMESIS (Kyiv based).

Growth trend



Key capabilities



USV (maritime drones) prod. (MAGURA V5):

- over 350 drones built;
- more than 30 combat missions;
- over 13 targets hit
(including 11 military ships sunk),

Production

25-30 drones per month.

R&D

Currently developing 5 new platforms:
missile carrier, aircraft carrier, mine layer,
relay platform, and underwater drone.

UAV (bomber drones) prod. (NEMESIS class):

- over 3 000 drones built;
- more than 10 000 combat missions;
- over 4 500 targets hit/destroyed.

Production

Capable of producing 400-500 drones per month.

R&D

Developing 4th-generation drones
for swarm operations.

UAV "Bucha 23-interceptor" (up to 20 km) ("Anti-Shahed" class):

- over 200 interceptors were built;
- 10 combat missions.

Production

Capable of producing 300-400 drones per month.

R&D

Integration with all existing radars
on a battlefield in Ukraine

UGV (mobile autonomies ground platform) "LIUT":

- 10 platforms built;
- started to use in combat missions.

Production

20 platforms per month.

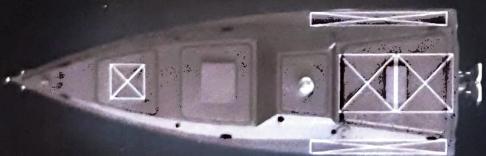
R&D

Currently developing new platforms for grenade
launcher and radio retranslation unit.

Additional capabilities



Remotely operated combat module «RAGE-2»
is designed for surface vehicles, equipped with a dynamic
gyrostabilization system to compensate for sea waves,
and has an IPx7 rating.



USV (maritime drones) MAGURA V7

is a multi-purpose unmanned surface vehicle with increased
payload and range compared to the MAGURA V5.
USV can perform various tasks: patrolling, search and rescue,
maritime security, etc.



Remote control module for UAVs «Starmode»

Is designed to enable remote control of the UAV pilot module
via satellite communication and provide thermal imaging
video stream from the UAV.

UFORCE

MAGURA^{V5}



НАДВОДНИЙ БЕЗПІЛОТНИЙ ЧОВЕНЬ

Maritime Autonomous Guard Unmanned Robotic Apparatus (MAGURA) V-типу – багатоцільовий безпілотний надводний корабель (БПК) нового покоління, розроблений в Україні.

MAGURA V5 розроблений з використанням передових методів проєктування. Гідродинамічний корпус і витончений профіль V5 дозволяють йому пересуватися приховано з чудовою маневреністю.

Типи операцій



Спостереження



Патрулювання



Розвідка



Протимінні заходи



Захист суден



Знищення кораблів противника



Пошуково-рятувальні операції

Характеристики

Максимальний радіус дії.....до 540 морських миль

Довжина.....5500 мм

Автономність.....не менше 48 год

Ширина.....1530 мм

Максимальна швидкість при повному навантаженні.....не менше 45 вузлів

Висота.....1000 мм

Крейсерська швидкість.....23 вузли

Зовнішні датчики.....тепловізійні та відеокамери на гіростабілізованому підвісі, резервні тепловізійні та відеокамери

Допустимий стан моря на максимальній швидкості.....2

Керування.....пульт дистанційного керування з зашифрованим каналом зв'язку, через супутниковий зв'язок

Допустимий стан моря на крейсерській швидкості.....3

Корисне навантаження.....до 320 кг

UFORCE MAGURA^{V5}

Переваги



Синхронізація групи човнів
(робота роєм)



Багатоканальний
супутниковий зв'язок



Стійкість до впливу засобів
радіоелектронної боротьби



Можливість працювати незалежно
від часу доби (вдень і вночі)



Автоматичне відстеження цілей

Додаткове озброєння



ПТРК



Кулемет



ЗРК

Цілі уражені MAGURA V5 (на серпень 2024)

13 цілей (11 з них знищено)



HERO 400

Highly Lethal, Long-Range Loitering Munition System

The HERO 400 loitering munition system redefines long-range precision engagement with its ability to discreetly locate, track, and eliminate high-value strategic targets.

With its advanced, extended range & loitering capabilities, it enables engagement from stand-off positions, ensuring minimal risk to forces and maximum impact on enemy operations, thereby maximizing the strategic utility of each deployment.



210lbs
Weight

24lbs
Warhead

120Min
Endurance

Launch Platforms



Targets



Strategic Precision for High-Value Targets

Operational control of the HERO 400 can seamlessly transition between centralized command units and forward-deployed forces, adapting quickly to dynamic combat environments. The canister also serves as its packaging; the system is pre-loaded and launch-ready, eliminating the need for field assembly. The system's integration onto a vehicle with the launcher pre-installed ensures it is ready for immediate launch, significantly enhancing logistical efficiency, launch time, quick turn-around and safety.

The HERO 400, designed for mission flexibility, features a variety of powerful warheads to suit specific target types and tactical needs.

With stand-off in capabilities (SOI), the long-range HERO 400 is launched from secured distances, at a stand-off position, preserving

force safety and simplifying logistical demands. It supports extended missions without the need for direct exposure to enemy defenses, highlighting its role as a strategic asset.

Control is possible from a ground station or can be transferred to forward forces, with ESAD (Electronic Safe and Arm Device) fuses allowing in-flight adjustments for impact or proximity to match the attack profile.



Key Features

- Enhanced Warhead Options- Includes larger scale Anti-Fortification, Anti-Tank, and Multi-Purpose warheads. Easily replaceable lethality packages in the field.
- Customizable Detonation Modes- Adaptable settings including impact, proximity, and delay for target-specific engagement.
- Operational Modes- Autonomous (Man-in-the-loop), Semi-autonomous, and Manual.
- Comprehensive Domain Functionality – Land, Sea and Air operation, launches and operates against stationary or moving targets across all domains.
- Upgraded Sensor Suite- Advanced EO/IR Camera system with enhanced scene-matching capabilities.
- Secure Communication -Encrypted BLOS communication using AES-256.
- AI tracker- Offers optional ATR capabilities.
- GPS-Denied Operation- Ensures mission continuation in GPS-denied environments.
- Precision Attack Adjustment- Allows mid-mission changes to enhance strike accuracy; includes options to abort the attack, re-engage or safely disarm and return.

System Components



Communication



Extended Range



LM and Launcher



Fire Control Unit



HERO 30



HERO 90



HERO 120



HERO 400

HERO Simulator

**Elevating Performance,
Reducing Life Cycle Costs –
An Immersive Virtual Training
Experience for HERO Operators**

The HERO simulator, designed specifically for operators of the HERO family of loitering munitions, offers an immersive virtual training environment, enabling operators to enhance their proficiency in the HERO systems, ensuring they are well-prepared for real-world missions and battlefield challenges.



Enhance decision-making skills and response times with high-fidelity simulations and scenario-based mission rehearsals, tailored for both training and pre-mission preparations.

HERO Simulator

UVision's Hero simulation tool trains users of all proficiency levels in a realistic environment, covering a wide range of operational scenarios, reducing the need for actual flights to achieve combat readiness.

The simulator operates on the Hero Fire Control Unit (FCU), using UVision's airborne core and advanced virtual graphics for an authentic training experience. The simulator features the actual HERO loitering munition software, accurate flight and weather data, and offers debriefing modes for comprehensive feedback.

Immersive Training Environment

The simulator features a photo-realistic 3D terrain with precise lighting, weather, and EO/IR payload simulations, enhancing the realism of various tactical training scenarios across air, land, and sea. It supports dynamic mission adjustments with real-time scenario uploads and modifications, and generates accurate real-time video outputs for comprehensive end-to-end mission preparations.

Key Features

- Accurate simulation of the platform and electro-optical camera
- Flexible and versatile scenario generator, simulating end-to-end missions
- Allows integration of unforeseen scenarios and diverse weather conditions, replicating real battlefield challenges during training.
- Training on a standard Operator Control Unit (OCU) for maximum fidelity
- One instruction station, multiple trainee stations
- Recording and debriefing modes for "lessons learned"
- Multi Munitions Squad Level Configuration - allows for simultaneous practice of up to 6 operators, involving multi HERO munitions within the same operational environment.
- Embedded configuration: the simulator software is installed on the Operator Control Unit (OCU) allowing the operator to practice planned mission until the very last minute.

Enhanced Tactical Environment

To enhance realism and training capabilities, and/or support mission planning and practices, the instructor can inject computer-generated forces into the synthetic domains- air, land, or sea. Real-time operational scenarios can be uploaded and executed using a user-friendly utility during the preparation and training period.



Portable Work Station for the Instructor



Seamless transition
from mission execution
to training with the
same Fire Control Unit

HERO 90

**Multi-Domain, Multi-Purpose,
Man-Portable Loitering
Munition System**

HERO 90 is a Common Launch Tube Compatible, light-weight system, easily carried in a backpack by a single soldier.



33lbs
Weight

8.8lbs
Warhead

35Min
Endurance

Launch Platforms



Targets



HERO 90 Loitering Munition System

Highly agile and man-portable, the HERO 90 brings a versatile anti-tank capability to the battlefield, specifically tailored to meet the evolving needs of infantry and tactical forces.

It is designed to bring unprecedented lethality to land forces, especially small tactical units operating in challenging environments. The HERO 90 provides agility and counter-armor capabilities at extraordinary ranges and endurance, best performance in its category.

The HERO 90 stands out with its All-Domain compatibility. It can be equipped on air-vehicles, vessels, land vehicles (from small to large) and infantry units.

Redefining Mid-Range Lethality

A potent force against armored targets, the HERO 90 delivers precision strikes at ranges exceeding 40 kilometers. With versatile warhead configurations, including Anti-Tank, Multi-Purpose, and Anti-Personnel, it is critical

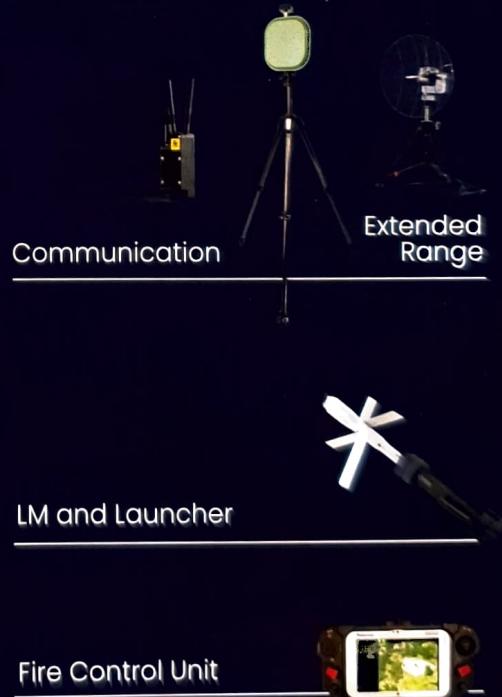
for meeting the requirements of the rapidly evolving symmetric and asymmetric warfare arenas. The HERO 90's small form-factor and portability, combined with a high-yield warhead of over 1.5 Kg, provides a significant and precise destructive capability to effectively neutralize threats from different types and sizes.



Key Features

- Multiple Warhead Types- Includes Anti-Armor, Anti-Tank, Anti-Personnel.
- Lightweight, Compact, and MIL STD robust design
- Precision accuracy keeps collateral damage to a minimum (less than 1 CEP)
- Customizable Detonation Modes- Adaptable settings including impact, proximity, and delay for target-specific engagement.
- Operational Modes- Autonomous (Man-in-the-loop), Semi-autonomous, and Manual.
- EO/IR Camera Array- Includes optional scene matching.
- Secure Communication -Encrypted BLOS communication using AES-256.
- AI tracker- Offers optional ATR capabilities.
- GPS-Denied Operation- Ensures mission continuation in GPS-denied environments.
- Attack Adjustment- Allows mid-mission tactical changes to enhance strike accuracy; includes options to abort the attack, re-engage or safely disarm and return.

System Components



HERO 30



HERO 90



HERO 120



HERO 400

Redefining Battlefield Adaptability

P550™

DISTINCTIONS

	LINK RANGE	40 km Standard; Up to 60 km with DDL range depending on GCS Radio
	WINGSPAN	17 ft (5 m)
	LENGTH	9 ft (2.8 m)
	WEIGHT	Up to 55 lb (24.9 kg) MGTOW
	ENDURANCE	Up to 5 hr

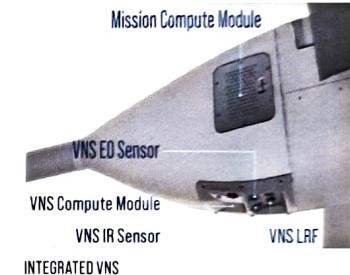
SPECIFICATIONS

PAYOUT CAPACITY	Up to 15 lb (6.8 kg)
SPEED	15-27 m/s (30-52 kts)
OPERATING ALTITUDE	Max. Flight DA 14K ft (4267 m) Max. Launch DA 10K ft (3000 m)
DATA LINK	Silvus; DDL
OPERATION	1-person operation
GCS	Vigilant Spirit GCS with Quattro STANAG 4586 (Baseline) & Kinesis GCS (Future)
ENVIRONMENTAL CAPABILITY	IP-54 // -4 to 122 °F (-20 to 50 °C)

MODULAR PAYLOAD



ADVANCED AI & AUTONOMY



KEY FEATURES

- » Rugged, reliable, portable all-weather tactical eVTOL
- » Up to 15 pounds multiple modular mission payload capacity
- » Low logistics footprint with up to 5 hours of all-battery endurance
- » Advanced mission system enabling secure ATR/Autonomous missions
- » mDDL-FH // Advanced Day-Night VIO Navigation for A2/AD Ops
- » Modular architecture supporting 3rd party payloads, radios, and control options

MISSION VARIANTS

READY-TO-FLY IN <10 MIN

Tool-free Connections for Easy Assembly and Teardown

MAN-PORTABLE // HMMWV, JLTV

Durable Vehicle/Payload/GCS Cases for Portability, Storage, and Mission Prep

MISSION TURNAROUND <5 MIN

Hot Swappable Batteries and Modular Payloads



P550™ ALL-ELECTRIC VTOL UAS

AV
AeroVironment



P550™, an autonomous all-battery Group 2 eVTOL UAS, redefines battlefield adaptability, setting a new standard for rapid deployment in any environment. Leveraging proven advanced AI and autonomy, P550 enables smarter, safer operations. P550's Modular Open Systems Approach (MOSA) enables seamless integration with third-party payloads,datalinks, control and mission software offering unmatched adaptability to evolving mission demands. With a multi-sensor payload capacity of up to 15 pounds and enhanced lethality options, P550 excels in dynamic, contested environments, providing superior situational awareness, precision targeting, and reliable force protection.

VAPOR® 55 MX ALL-ELECTRIC HELICOPTER UAS

AV
AeroVironment™



The VAPOR® 55 MX all-electric helicopter unmanned aircraft system (UAS) is extremely versatile and can be easily configured to support a variety of mission requirements for defense, commercial and industrial applications. The all-weather VAPOR UAS incorporates a modular design that makes integration of high-performance single or multiple sensor payloads quick and easy. It features a sleek, modular, low-profile design that is rugged and portable with its telescoping tail and fold-up landing gear. Specifically built for heavier payloads and longer distances, VAPOR is unmatched by any quadcopter or other helicopter UAS with its 24-pounds of flexible payload capacity, and up to 105 minutes of endurance with a 3rd battery option.

SPECIFICATIONS

OPTICAL SENSOR	Trillium HD-25 (standard), Other options HD-45-LV-CZ, HD-45-CZ-GS, HD-55-LV-CZ, HD-55-MV HD, HD-25-LV
GROUND SPEED LIMIT	33 mph (15 m/s)
DIMENSIONS	Aircraft: 6 ft x 2.2 ft x 2.1 ft (1.8 m x 0.67 m x 0.64 m) // Rotor Diameter: 7.5 ft (2.29 m)
OPERATING ALTITUDE*	0-12,000 ft (3,657 m) MSL (density)
ENVIRONMENTAL OPERATIONAL LIMITS	Min: 0 °F (-17 °C) // Max: 120 °F (49 °C)
MAX WIND PEAK*	Sustained: 34.5 mph (30 kts)
DATA LINKS	900 MHz, 2.4 GHz or 5.89 GHz (video), Persistent Systems MPU5 (Standard), options Silvus, DTC
GROUND CONTROL	Live GPS position, full authority control, automatic or manual flight

Built for Heavier Payloads & Longer Distances

VAPOR 55 MX

DISTINCTIONS



RANGE
Up to 19.8 miles (32 km)



ENDURANCE
Cruise: 75 min, Hover: 60 min (2-batteries)
Cruise: 105 min, hover: 80 min (3-batteries)



USABLE PAYLOAD
Up to 24 lb (10.9 kg)



GTOW WEIGHT
Up to 68 lb (30.8 kg)

HIGH PERFORMANCE GPS
GPS/GLO/NAV receiver

ADVANCED BLADE DESIGN
High performance aerodynamic blade design with increased gust rejection

COMMON RADIO INTERFACE CONNECTOR
Allows for easy swapping of radios (Microhard, Silvus or MPU5)

ADVANCED FLIGHT CONTROL SYSTEM
Robust, industry leading autopilot & FCS



KEY FEATURES

- » *Payload flexibility—payload modules with rail design enables quick & easy payload integration for increased mission flexibility*
- » *Sleek, modular airframe design for easy assembly & disassembly*
- » *Flexible core architecture—key enabler for continuous development that will allow for seamless extensions & upgrades*
- » *Modular radio options—seamlessly operate with a low-cost encrypted radio or swap to hardened military radio*

EXAMPLES OF POSSIBLE PAYLOADS



EO/IR Sensor



SIGINT



Drop Mechanism***



Lidar



Hyperspectral



PPK Mapping



Multi-Payload

* Nose mounted Trillium HD-25 optical sensor Standard

** FAA restricts the max Gross Takeoff Weight (GTOW) of drones operating in the NAS to 55 lb unless you have special authorization

*** With HD-25 - up to a 15-18 lbs droppable payload



HARDCASE PACK OUT

12.9 in height x 16.1 in depth x 45.5 in width



RUCKSACK PACK OUT

25 in height x 9.5 in depth x 14.3 in width

TOMAHAWK KINESIS

TOMAHAWK



Kinesis empowers operators to control over 20 uncrewed systems from more than a dozen manufacturers, all through a single, unified interface. Displayed on a single 'pane of glass', these systems can be enhanced with new AI capabilities and fully integrated into the tactical network. Kinesis represents the next evolution in body-worn common control for uncrewed systems, whether airborne or ground-based. Designed with MOSA to seamlessly integrate with existing equipment, Kinesis unifies your uncrewed systems into a common operating picture, networked for team collaboration and augmented by advanced AI.