



MOUNTAIN HORSE SOLUTIONS
A GLOBAL ORDNANCE COMPANY



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UNMANNED SYSTEMS CATALOG

DELIVERING MISSION-READY UAS SOLUTIONS

Global Military Products (GMP) and Mountain Horse Solutions (MHS) operate under Global Ordnance, delivering the full spectrum of combat-proven unmanned and counter-unmanned systems — from tactical FPVs to strategic launched effects. Every platform in this catalog is modular, scalable, and field-ready, giving warfighters and procurement teams the tools to project power, adapt rapidly, and dominate across every operational environment.

RICHARD BUDNIEWSKI

Director of UAS / CUAS Programs

Email: richard.budniewski@mtnhorse.com

Mobile: (941) 376-9146

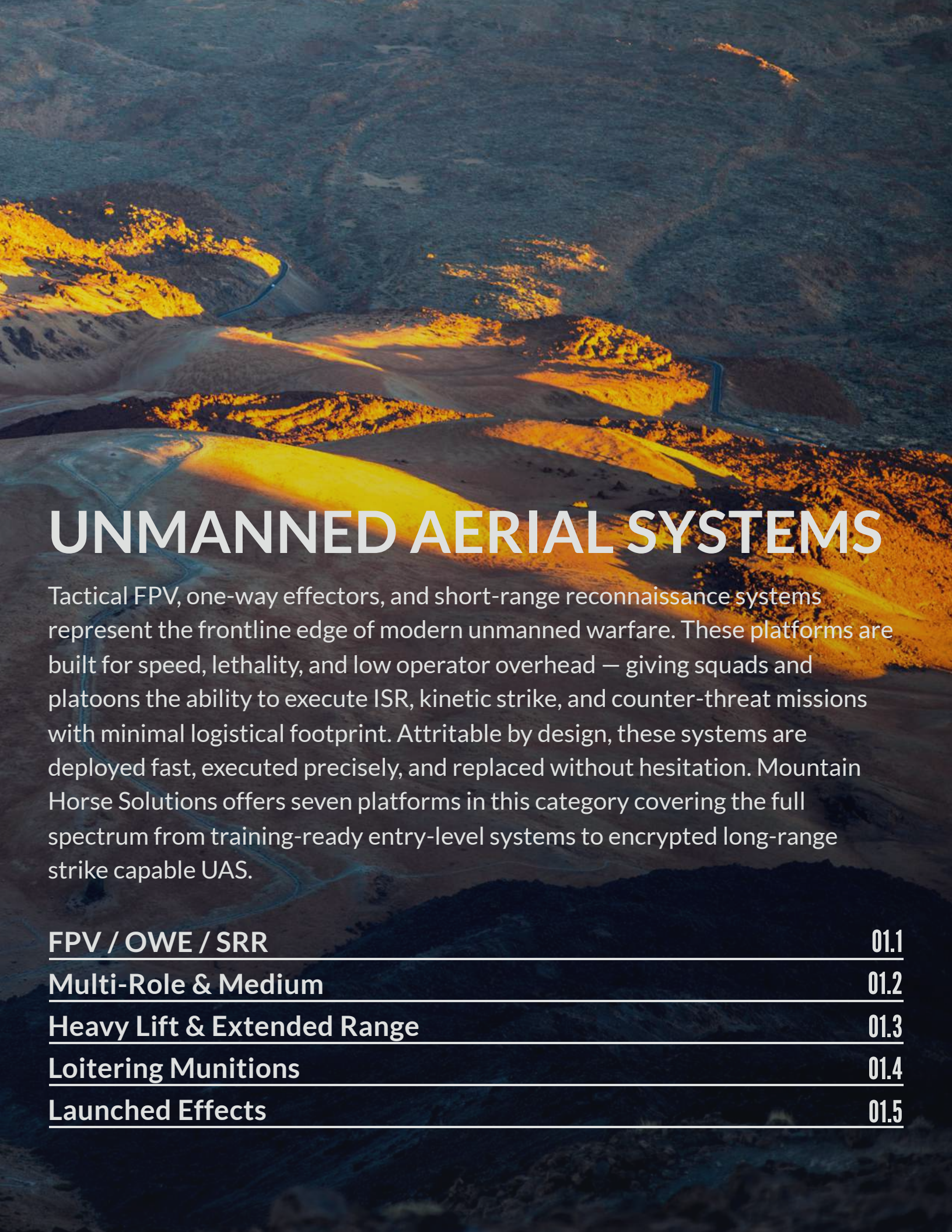
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01

AIR DOMAIN



UNMANNED AERIAL SYSTEMS

Tactical FPV, one-way effectors, and short-range reconnaissance systems represent the frontline edge of modern unmanned warfare. These platforms are built for speed, lethality, and low operator overhead — giving squads and platoons the ability to execute ISR, kinetic strike, and counter-threat missions with minimal logistical footprint. Attritable by design, these systems are deployed fast, executed precisely, and replaced without hesitation. Mountain Horse Solutions offers seven platforms in this category covering the full spectrum from training-ready entry-level systems to encrypted long-range strike capable UAS.

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SECTION 01 — AIR DOMAIN

FPV / OWE / SRR

Tactical FPV, one-way effectors, and short-range reconnaissance systems represent the frontline edge of modern unmanned warfare. These platforms are built for speed, lethality, and low operator overhead — giving squads and platoons the ability to execute ISR, kinetic strike, and counter-threat missions with minimal logistical footprint. Attritable by design, these systems are deployed fast, executed precisely, and replaced without hesitation. Mountain Horse Solutions offers seven platforms in this category covering the full spectrum from training-ready entry-level systems to encrypted long-range strike capable UAS.

01.1

PLATFORMS IN THIS SECTION

ANVIL

Heavy-payload tactical UAS with 11lb capacity, 45-minute endurance, and 30km extended range via node relay. Encrypted six-band radio and EOIR camera integration.

SCOUT

Tactical multicopter ISTAR and signal relay platform with 60-minute endurance, 40km flight distance, and anti-jamming GNSS. Operates in rain, snow, and contested RF environments.

ATLAS

Fixed-wing tactical ISTAR platform with 2.5-hour endurance and 150km flight distance. Hand launch, no catapult required. Backpack portable, 1-2 operator crew.

FD-1 INTERCEPTOR

Compact offensive and defensive sUAS armed and launched in under two minutes. 165+ mph top speed, Pixel-Lock terminal guidance, and ECM/EW defeat via frequency switching.

FLEX

Modular FPV platform in four frame sizes — 5", 7", 10", and 13" — with quick-swap arms, MAVLink integration, and Picatinny rail payload attachment. NDAA compliant.

SHRIKE

Precision-strike kinetic FPV with Pixel-Lock terminal guidance, 60-minute endurance, VTOL launch and recovery, and IP64 weather resistance. Swarm capable at 3:1 minimum.

SPADE

Multi-mission autonomous FPV in two configurations spanning position mode to full acro. Swarm-ready, mesh networked, and attritable by design.

SIGNAL RELAY | ANTI-JAM GNSS | ISTAR

FPV / OWE



ANVIL

HEAVY PAYLOAD

SWARM-READY

EOIR EQUIPPED



The Anvil is a heavy-payload tactical UAS engineered for extended-range operations where persistent presence and lethal effect matter most. With 11 pounds of configurable payload capacity, 45 minutes of unloaded endurance, and a range extending to 30km via node relay, the Anvil delivers where lighter FPV platforms can't reach. Encrypted six-band radio, HD Digital and EOIR camera integration, and multi-vehicle swarm coordination make it a force multiplier for small teams operating deep in contested environments.

SPECIFICATIONS	VALUE
Frame size	13 inch
Max Speed	65 mph
Endurance	45 min (unloaded)
Payload	11 lbs (5 kg)
Range	20+ km point-to-point • 30+ km w/ node relay
Camera	HD Digital / EOIR
Comms	6-band • 1625-2500 MHz
Radio	128-bit / 256-bit AES encrypted
Swarm	Multi-vehicle coordination
Flight Modes	Stabilized • Position Hold • Acro

FIXED-WING EFFICIENCY | MULTICOPTER FLEXIBILITY

FPV / OWE



SCOUT

ANTI-JAM GNSS

SIGNAL RELAY

ISTAR



The Scout is a tactical multicopter UAV purpose-built for video surveillance and signal relay in contested environments. With 60 minutes of endurance at max takeoff weight and a 40km flight distance by route, the Scout competes directly with fixed-wing and VTOL systems in operational efficiency — without sacrificing the vertical takeoff flexibility that forward units depend on. Equipped with anti-jamming GNSS, secure video transmission, and a modular payload bay supporting RGB and EOIR cameras, the Scout serves as both an ISR platform and a relay node for FPV drone operations.

SPECIFICATIONS	VALUE
Max Takeoff Weight	7.5 kg
Max Payload	1.5 kg (3.3 lbs)
Max Speed	70 km/h
Endurance	60 min (at max takeoff weight)
Flight Distance	40 km by route
Control Radius	12 km
Altitude Range	30–1,000 m
GNSS	Anti-jamming
Pre-flight Prep	20–25 min
Operating Temp	-15°C to +45°C

HAND-LAUNCHED | LONG-RANGE | ALWAYS WATCHING

FPV / OWE



ATLAS

HAND LAUNCH

150KM RANGE

DAY / THERMAL



The Atlas is a fixed-wing tactical ISTAR platform that delivers 2.5 hours of persistent reconnaissance across a 50km operational radius — all from a hand launch with no catapult required. Transported in two backpack-style cases and operated by a crew of one to two, it deploys in under 15 minutes and operates at altitudes up to 3,500 meters. Equipped with anti-interference GNSS, secure video and telemetry transmission, and a modular payload bay supporting RGB, EOIR, and day/thermal camera options, the Atlas brings fixed-wing endurance and range to the smallest possible tactical footprint.

SPECIFICATIONS	VALUE
Max Takeoff Weight	9.0 kg
Max Payload	1.0 kg (2.2 lbs)
Max Speed	100 km/h
Endurance	2.5 hours
Max Flight Distance	150 km
Control Radius	50 km
Altitude Range	100–3,500 m
Deployment Time	10–15 min
Launch	Hand launch — no catapult
Crew	1–2 operators

TWO MINUTES TO LAUNCH | 165 MPH TO TARGET

FPV / OWE



FD-1 INTERCEPTOR

PIXEL-LOCK GUIDANCE

ECM DEFEAT

NDA COMPLIANT



The FD-1 is a compact, man-portable offensive and defensive sUAS engineered for one purpose — rapid kinetic effect against air and ground threats. Armed and launched in under two minutes from an inert state, the FD-1 reaches speeds exceeding 165 mph with Pixel-Lock terminal guidance that hands off targeting once the operator establishes positive identification. Its low RF cross-section, ECM/EW defeat capability via frequency switching, and ability to engage at low altitude make it nearly invisible to conventional countermeasures. Configurable with C4, binary energetics, or a steel ball frag package — the FD-1 is a force multiplier that fits in a backpack and changes the outcome of an engagement.

SPECIFICATIONS	VALUE
Max Speed	165+ mph
Max Range	10+ km
Deployment Time	Setup, arm, launch — under 2 min
Kinetic Payload	C4 / binary energetics / frag package
Guidance	Pixel-Lock terminal / FPV
ECM / EW Defeat	Frequency switching · low RF cross-section
FPV Camera	Digital 1280x720 @ 60fps
Flight Modes	Acro · Angle
Active Battery	30-day steady state charge
NDAA	Compliant — included as standard

ONE FRAME | FOUR CONFIGURATIONS | EVERY MISSION

FPV / OWE



FLEX

4 CONFIGURATIONS

MODULAR FRAME

NDAA COMPLIANT



The Flex is a modular FPV platform engineered for maximum adaptability across the full range of tactical requirements. Available in four frame sizes — 5", 7", 10", and 13" — operators configure the Flex to match payload capacity, endurance, and range to the specific mission at hand without switching platforms. Quick-swap arms allow rapid field reconfiguration and repair, MAVLink integration supports mission upload and monitoring, and Picatinny rail payload attachment provides a standardized interface for any mission package. NDAA compliant as standard, the Flex scales from close-range reconnaissance to extended-range strike across a single unified system.

SPECIFICATIONS	VALUE
Max Payload	450g 1 kg 2 kg 3 kg
Hover Endurance	15 min 20 min 30 min 40 min
Range (no payload)	10 km 20 km 30 km 40 km
Max Speed	120 km/h 150 km/h 150 km/h 150 km/h
RC Link	2.4 GHz IRC Ghost
Video	5.8 GHz analog
Telemetry	915 MHz
Max Radio Range	10 km
Payload Mount	Picatinny Rail
NDAA Compliant	

PRECISION STRIKE | ANY CONDITION | ONE OPERATOR

FPV / OWE



SHRIKE

HEAVY PAYLOAD

SWARM-READY

EOIR EQUIPPED



The Shrike is a compact, precision-strike kinetic FPV delivery system built for single-operator deployment in the most demanding environments. VTOL launch and recovery, foldable arms for high-density storage, and a 60-minute unburdened endurance give the Shrike a tactical flexibility that purpose-built interceptors can't match. Pixel-Lock terminal guidance hands off targeting autonomously once positive identification is established — day or night, in rain or snow, and optionally in GPS-denied environments. Swarm-capable at a minimum 3:1 ratio and NDAA compliant as standard, the Shrike brings rapid lethality to any CONOPS at a price point that makes attrition a viable tactic.

SPECIFICATIONS	VALUE
Max Speed	75 mph (120 km/h)
Cruise Speed	55 mph (88 km/h)
Max Range	10 km / 6.2 mi
Endurance	60 min (unburdened)
Payload	5 lbs (2.27 kg)+
Max Takeoff Weight	10 lbs (4.5 kg)
Launch / Recovery	VTOL
Guidance	Pixel-Lock terminal • GPS-denied optional
Radio	ELRS • Crossfire • Dual-freq anti-EW
Ingress Protection	IP64 — rain and snow capable
Operating Temp	-10°C to +40°C • Arctic option available

MISSION-READY AUTONOMY | FROM FIRST FLIGHT TO FIRST MISSION

FPV / OWE



5
0
-5
-10



5 350 355 N

SPADE

HEAVY PAYLOAD

AUTONOMOUS NAV

MODULAR PAYLOAD



The SPADE is a multi-mission autonomous FPV platform built for forward-deployed tactical operations. Designed for swarm coordination, modular payload delivery, and real-world field performance with minimal operator overhead. Available in two configurations covering the full spectrum from position mode to full acro – the SPADE takes operators from zero stick time to mission-ready without switching platforms. Attritable by design: deploy, execute, replace.

SPECIFICATIONS	VALUE
Max Speed	72 mph manual · 45 mph autonomous
Endurance	25–30 min · ~20 min w/ payload
Range	2 km (stock antenna config)
Payload	2.2 lb (1 kg)
Weight	750 g (no payload)
RC Link	2.4 GHz / 915 MHz
Video Link	5.8 GHz analog
Battery	4S LiPo, 5000 mAh

MULTI-ROLE & MEDIUM PLATFORMS

Multi-role and medium unmanned platforms extend the mission beyond the frontline — carrying heavier payloads, staying airborne longer, and operating across a wider range of environments than tactical FPV systems. These platforms are built for sustained ISR, logistics, electronic warfare, CBRNE operations, and autonomous execution in contested and denied environments. Operator overhead remains low while mission scope expands significantly — a single airframe capable of pivoting between reconnaissance, resupply, and strike without returning to base. Mountain Horse Solutions offers six platforms in this category spanning fixed-wing and multirotor configurations for persistent, multi-domain operations.

01.2

PLATFORMS IN THIS SECTION

SENTINAL

Fixed-wing ISTAR platform with 5-hour endurance, 300km range, and 80km controlled radius — catapult-launched and vehicle-transportable.

COMMANDER 3XL

Heavy-lift multi-role UAS with 22lb payload capacity, 55-minute endurance, and 10km+ range — compatible with FLIR thermal, mapping, and surveillance payloads.

DOLPHIN

Fixed-wing multi-mission sUAS with 1+ hour endurance and 2-minute box-to-sky deployment — scalable from one unit to thousands.

ORCA

Fixed-wing multi-mission sUAS with 4+ hour scalable endurance, 40-mile range, and a modular airframe supporting ISR, payload delivery, electronic warfare, and mesh networking.

TRV 31

Single-man deployable multi-role sUAS with 120-minute endurance, 100+ km range, and autonomous flight capability.

300KM RANGE | 5-HOUR ENDURANCE | MISSION-GRADE IMAGERY

MRR



SENTINAL

300KM RANGE

DAY / THERMAL

NATO CLASS I



The Sentinel is a long-endurance fixed-wing tactical ISTAR platform built for deep reconnaissance and persistent area surveillance across extended operational ranges. With 5 hours of endurance, a 300km maximum flight distance, and an 80km controlled radius, the Sentinel reaches where rotary-wing and shorter-range fixed-wing platforms cannot. Catapult-launched and vehicle-transportable, it deploys with a two-person crew and carries a modular payload bay supporting medium-format imaging and day/thermal video — delivering mission-grade intelligence from altitudes up to 3,500 meters. Anti-interference GNSS and secure video and telemetry transmission keep the feed reliable in contested environments.

SPECIFICATIONS	VALUE
Max Takeoff Weight	12.5 kg
Max Payload	3 kg (6.6 lbs)
Max Speed	120 km/h
Endurance	11 lbs (5 kg)
Max Flight Distance	20+ km point-to-point · 30+ km w/ node relay
Control Radius	HD Digital / EOIR
Altitude Range	6-band · 1625–2500 MHz
Launch Method	128-bit / 256-bit AES encrypted
Deployment Time	Multi-vehicle coordination
Crew	Stabilized · Position Hold · Acro
Operating Temp	-15°C to +45°C

22 POUNDS OF PAYLOAD | 55 MINUTES OF PRESENCE

MRR



COMMANDER 3XL

22LB PAYLOAD

MULTI-ROLE

FLIR COMPATIBLE



The Commander 3XL is a heavy-lift multi-role UAS built for operators who need serious payload capacity without sacrificing endurance or operational flexibility. With a 22lb payload capacity and 55-minute hover endurance, it carries mission-critical equipment — from FLIR thermal cameras and RGB mapping systems to surveillance gimbals — across a wide range of ISR, reconnaissance, and public safety operations. Foldable arms enable rapid deployment and compact transport, while compatibility with multiple radio systems including DTC Blue SDR extends operational range beyond 10km. Built to handle wind, temperature extremes, and high-density altitude environments up to 8,000ft ASL.

SPECIFICATIONS	VALUE
Max Payload	10 kg (22 lbs)
Max Takeoff Weight	25 kg (55 lbs)
Empty Weight	15 kg (33 lbs)
Hover Endurance	55 min
Flight Endurance	50 min
Max Speed	38 knots (72 km/h)
Max Range	10 km+ (DTC Blue SDR)
Operating Ceiling	2,438 m (8,000 ft ASL)
Wind Resistance	35 km/h (21 mph)
Operating Temp	-25°C to +38°C

OPERATOR-DEFINED. 2 MINUTES TO SKY.

MRR



DOLPHIN

MULTI-MISSION

MASS PRODUCIBLE

MADE IN THE USA



The Dolphin is a multi-purpose fixed-wing sUAS built around a simple principle — operators define the mission, the Dolphin executes it. Fabricated and assembled in the USA using commercial mass production techniques, it deploys in two minutes from an airline-transportable container and is available in quantities from one to thousands. At 5.5 lbs empty and 10 lbs max launch weight, it carries 1 lb sensor and radio payloads across reconnaissance, electronic warfare, decoy, and mesh networking missions with 1+ hour endurance in every configuration. Proven at sea and on land and operated by US forces and partners, the Dolphin is attritable by design — affordable enough to replace without hesitation, capable enough to trust with the mission.

SPECIFICATIONS	VALUE
Cruise Speed	38 MPH
Endurance	1+ HR
Empty Weight	5.5 lbs
Max Launch Weight	10 lbs
Fuselage Diameter	5.8 in
Deployment Time	\2 MIN — box to sky
Mission Roles	Recon / EW / Decoy / Mesh Node / Trainer
Max Payload	1 lb
Origin	Made in the USA
NDAA	Yes

OPERATOR-DEFINED | MISSION-READY | BUILT IN THE USA

MRR



ORCA

BUILT IN THE USA

MULTI-MISSION

NDAA COMPLIANT



The Orca is a multi-purpose fixed-wing sUAS built around a simple principle — operators define the mission, the Orca executes it. From reconnaissance and payload delivery to electronic warfare, decoy operations, and mesh networking, the Orca's modular airframe adapts to the requirement rather than forcing the operator to adapt to the platform. Time from box to sky is two minutes, hand launch weight is 18 lbs, and endurance scales with battery configuration up to 4+ hours depending on mission profile. Fabricated and assembled in the USA using commercial mass production techniques and NDAA-compliant components, the Orca is available from one unit to thousands.

SPECIFICATIONS	VALUE
Empty Weight	6.5 lbs
Max Hand Launch Weight	18 lbs
Max Assisted Launch Weight	22 lbs
Cruise Speed	40 mph
Endurance	1 hr per 2.5 lbs of battery
Max Range (payload delivery)	40 miles
Fuselage Diameter	5.8 in
Deployment Time	2 min — box to sky
NDAA	Compliant

ONE OPERATOR | EVERY MISSION | ZERO LIMITS

MRR

5
0
-5
-10



5

350

355

N

TRV31

MULTI-ROLE

SINGLE-MAN DEPLOYABLE

NDAA COMPLIANT



The TRV31 is an advanced Multi-Role modular sUAS platform built for the full spectrum of battlefield operations. Single-man portable and deployable in minutes, it delivers persistent ISR, resupply, CBRNE detection, decontamination, and C2 mesh network extension at a fraction of traditional system costs. Designed for preprogrammed fully autonomous flight and fully capable in GNSS-denied environments, the TRV31 integrates natively with ATAK via standardized mesh networks. A 360-degree LIDAR terrain avoidance system and vertical-facing LIDAR for canopy operations enable confident low-altitude missions across complex terrain. The platform's hot-swap payload architecture — combined with an external picatinny rail and Quick Detach mounts — allows operators to reconfigure between ISR, CBRNE, kinetic delivery, and sensor deployment missions without returning to base.

SPECIFICATIONS	VALUE
Speed	45+ MPH
Flight Time	120 MIN
Range	100+ KM
Max Payload	30 lbs
Operation Modes	Autonomous / FPV / Mesh Network
Terrain Avoidance	360° LIDAR + Vertical-Facing LIDAR
GCS	Cube Blue / Here 4 Blue (NDAA Compliant)
Optional Controller	UXV SRoC Ruggedized
NDAA	Compliant

HEAVY LIFT & EXTENDED RANGE

Heavy lift and extended range platforms redefine what a single unmanned system can carry, how far it can travel, and how long it can stay on station. Engineered for the missions that demand more — logistics resupply, persistent ISR, large-sensor integration, and mothership operations — these platforms operate where conventional multirotor systems fall short. With payloads exceeding 30kg and ranges measured in hundreds of kilometers, they compress the logistics chain and extend operational reach without adding personnel. Mountain Horse Solutions offers one platform in this category built for maximum payload performance and sustained mission endurance.

01.3

PLATFORMS IN THIS SECTION

HEAVY-LIFT

Versatile octocopter UAV with 30kg payload capacity, 46-minute endurance, and broad mission compatibility across delivery, surveillance, and military deployment.

LIFT MORE | FLY FURTHER | MISSION READY

HEAVY LIFT & EXTENDED RANGE



HEAVY-LIFT

HEAVY LIFT

NDAA COMPLIANT

MULTI-MISSION



The Draganfly Heavy Lift Drone is a versatile octocopter UAV engineered to carry more payload, fly longer, and operate across the widest range of mission profiles in its class. With a 30kg (67 lb) payload capacity and up to 46 minutes of flight time, it supports automated grid and polygon missions as well as manual operations across delivery, surveillance, military deployment, SAR, and disaster response. Compatible with an extensive payload library — from thermal IR and LiDAR to rescue hooks and gas detectors — the airframe adapts to the mission without requiring a new platform. Designed and manufactured in North America with over 24 years of industry experience behind it.

SPECIFICATIONS	VALUE
Max Payload	30 kg (67 lbs)
MTOW	79 kg (174 lbs)
Max Flight Time	46 MIN (at 2kg payload)
Flight Time at Max Payload	23 MIN (at 30kg)
Max Speed	22 m/s (49 mph)
Range	Up to 10+ KM
Configuration	Octocopter — 8 Motors
Propellers	32×11 Carbon Fiber
Automated Missions	Grid / Double Grid / Polygon
NDAA	Compliant

LOITERING MUNITIONS

Loitering munitions represent the sharpest edge of modern unmanned warfare — systems that can fly to a target area, identify a threat, hold position, and strike with precision on operator command. Unlike traditional munitions, they provide persistent eyes-on capability before commitment, with the ability to abort, redirect, or re-engage as the situation evolves. Effective against armor, personnel, and high-value targets at ranges conventional infantry cannot reach, these systems compress the kill chain to minutes while keeping operators safe. Mountain Horse Solutions offers two platforms in this category spanning short-range two-man portable operations to long-range catapult-launched UCAV missions.

01.4

PLATFORMS IN THIS SECTION

PATHFINDER

Catapult-launched UCAV and loitering munition with 120km strike range, 6-hour endurance, and three mission configurations — precision strike, FPV carrier, and persistent ISR.

QSLAM40

Portable two-man loitering munition with 15–20km range, 25-minute endurance, and pneumatic tube launch — GPS-denied capable and operator-abortable at any point.

STRIKE | SURVEIL | CARRY | ONE AIRFRAME

LOITERING MUNITIONS



PATHFINDER

LOITERING MUNITION

FPV CARRIER

BATTLE-PROVEN



The Pathfinder is a NATO Class I catapult-launched UCAV and loitering munition platform built for three distinct mission roles in a single airframe — precision strike, ISR carrier, and persistent surveillance. With a 120km strike range, 6-hour max endurance, and 350km flight distance, it operates well beyond the frontline and adapts to mission requirements without swapping platforms. In strike configuration, the operator locks the target on-screen and the system auto-tracks to impact. As an FPV carrier, it deploys two under-wing munitions within strike range while streaming live video of the engagement. Battle-proven and deployable in 20–25 minutes from a two-person crew.

SPECIFICATIONS	VALUE
Strike Range	120 km
Controlled Radius	100 km
Max Endurance	6 HRS
Max Flight Distance	350 km
Max Speed	170 km/h
Max Payload	3–9.5 kg
Max Takeoff Weight	24.5 kg
Wingspan	3.38 m
Max Altitude	3,000 m
Deployment Time	20–25 MIN
Launch Method	Catapult
NATO Class	I (c)

LOITER | IDENTIFY | STRIKE | ABORT IF NEEDED

LOITERING MUNITIONS



QSLAM40

GPS-DENIED CAPABLE

OPERATOR-ABORTABLE

MULTI-LAUNCHER READY



The Q-SLAM-40 is a short-range tactical loitering munition designed for precision engagement across ISR, target acquisition, protection, and kinetic strike missions. Pneumatic tube-launched with a low thermal and acoustic signature, the system deploys in under 5 minutes and is carried by a two-man team at 28kg total. With 25 minutes of endurance, 15–20km range, and real-time operator control via rugged tablet GCS, it operates effectively in GPS-denied environments — and can be redirected or aborted at any point before impact. The Q-SLAM-40 scales seamlessly from dismounted two-man operations to a five-round multi-launcher integrated on a UGV platform.

SPECIFICATIONS	VALUE
Range	15–20 km
Endurance	25 MIN
Max Speed	110 km/h
Loitering Speed	60 km/h
Operating Altitude	20–200 m (loitering)
Max Ceiling	2,800 m
System Weight	28 kg (2-man carry)
Deployment Time	Under 5 MIN
Launcher	Pneumatic Tube — Low Thermal/Acoustic Signature
GPS-Denied	Capable

LAUNCHED EFFECTS

Launched effects platforms extend precision strike capability far beyond the frontline — delivering kinetic payloads at high speed, extended range, and low observable altitudes that challenge even advanced air defence systems. Unlike loitering munitions, these are high-velocity one-way effectors designed for deep strike against fixed infrastructure, high-value targets, and defended positions where conventional aircraft cannot operate cost-effectively. From terrain-following sprint at 400 km/h to 2,700km strategic range at cruise, these systems compress time-to-target and remove crewed assets from the threat envelope entirely. Mountain Horse Solutions offers three platforms in this category covering short, medium, and strategic strike ranges.

01.1

PLATFORMS IN THIS SECTION

DART 250

High-speed terrain-following OWE with 250km+ range, 20kg kinetic payload, and multi-launch compatibility — accurate in heavily degraded GNSS environments.

LOW | FAST | 250KM DEEP | HARD TO STOP

LAUNCHED EFFECTS



DART 250

TERRAIN FOLLOWING

GPS-DEGRADED CAPABLE

MULTI-LAUNCH OPTIONS



The Dart 250 is a high-speed One Way Effector (OWE) designed for deep strike at terrain-following altitudes below 100 feet — making it highly challenging for ground forces and air defence systems to engage. With a max cruise speed exceeding 400 km/h and a 250km+ strike range, it delivers 20kg kinetic payloads pre-programmed to target with precision even in heavily degraded GNSS environments. The onboard FX-3 autopilot integrates dual redundant INS, radar altimeter, magnetometer, and Controlled Reception Pattern Antenna (CRPA) for accurate en route navigation and terminal guidance. Modular and scalable, the platform supports land, maritime, and EW targeting with selectable attack profiles and multiple launch options including catapult, ROTAS, and SRB.

SPECIFICATIONS	VALUE
Range	250+ km
Endurance	400+ km/h
Max Speed	20 kg
Loitering Speed	93 kg
Operating Altitude	33 kg
Max Ceiling	2.9 m
System Weight	Terrain Following — <100 ft
Deployment Time	Catapult / ROTAS / SRB
Launcher	INS / CRPA / Radar Altimeter / Alt Nav
GPS-Denied	2



02

LAND DOMAIN



UNMANNED GROUND VEHICLES

Unmanned ground vehicles extend the operational reach of dismounted forces into the most dangerous terrain — conducting reconnaissance, breaching obstacles, and delivering lethal or logistical payloads without putting personnel in harm's way. Where air assets face weather, detection, and airspace constraints, UGVs operate at ground level with persistence, payload capacity, and the ability to navigate complex terrain autonomously. These platforms are reshaping how ground forces approach high-risk environments, giving commanders eyes, reach, and firepower on the ground without the human cost. Mountain Horse Solutions offers one platform in this category — purpose-built for multi-role ground operations across contested and denied environments.

UGV / Multi-Role Ground Systems

Unmanned ground vehicles extend the operational reach of dismounted forces into the most dangerous terrain — conducting reconnaissance, breaching obstacles, and delivering lethal or logistical payloads without putting personnel in harm's way. Where air assets face weather, detection, and airspace constraints, UGVs operate at ground level with persistence, payload capacity, and the ability to navigate complex terrain autonomously. These platforms are reshaping how ground forces approach high-risk environments, giving commanders eyes, reach, and firepower on the ground without the human cost. Mountain Horse Solutions offers one platform in this category — purpose-built for multi-role ground operations across contested and denied environments.

02.1

PLATFORMS IN THIS SECTION

UNEX

The UNEX is a fully electric, NATO STANAG-certified amphibious UGV built for the full spectrum of high-risk ground operations — from combat fire support and CASEVAC to logistics, demining, and ISR.

ALL-TERRAIN | AMPHIBIOUS | EVERY MISSION | ZERO CREW AT RISK

UGV



UNEX

AMPHIBIOUS

NATO CERTIFIED

MULTI-ROLE MODULAR



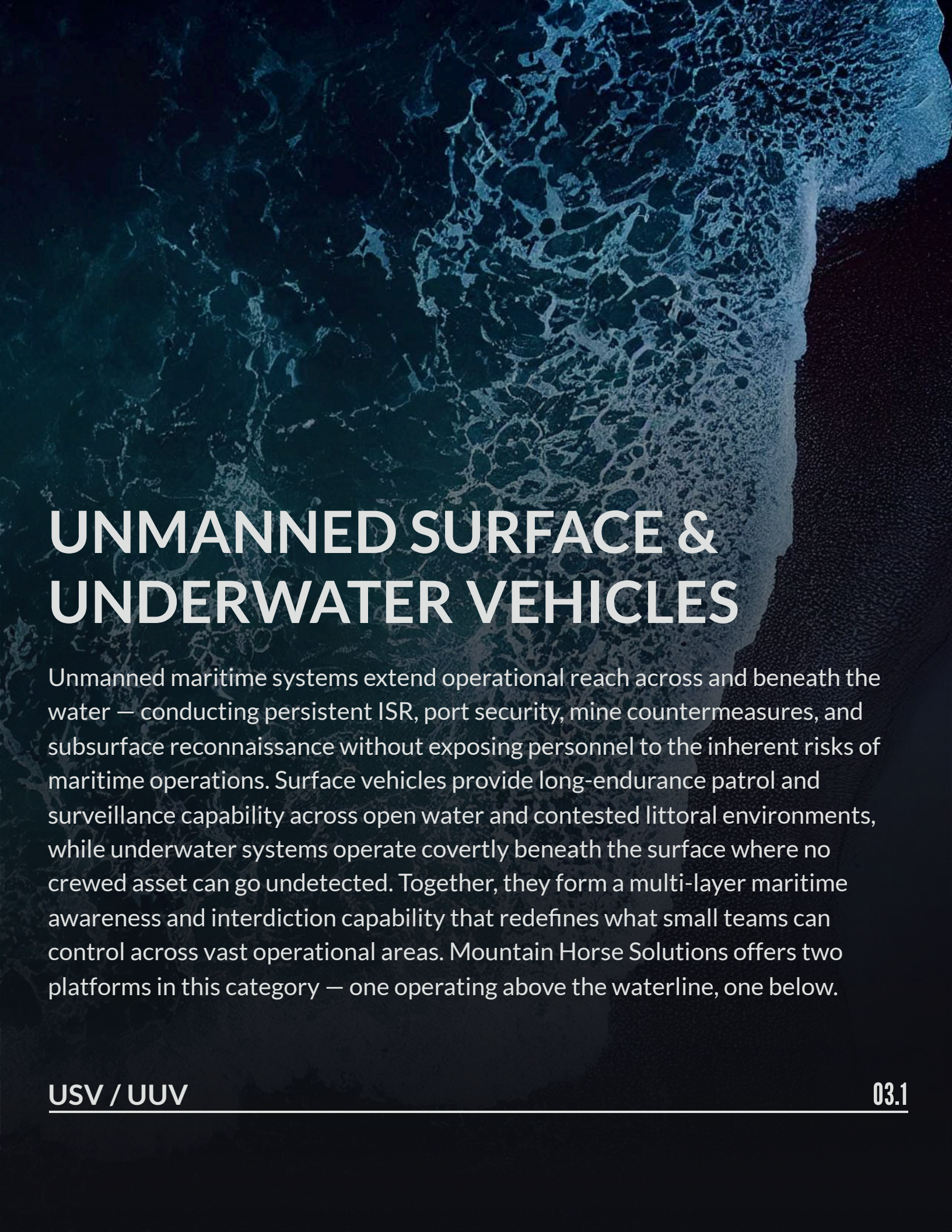
The UNEX is a fully electric, NATO STANAG-certified amphibious UGV built for the full spectrum of high-risk ground operations — from combat fire support and CASEVAC to logistics, demining, and ISR. Its modular architecture supports rapid role changes between weapon stations (RCWS, ATGMs, loitering munition launchers), cargo and casualty evacuation modules, EOD kits, and sensor packages — without returning to base for a platform swap. With 1,700kg payload capacity, 6-hour battery autonomy, and a 10km+ control radius, it operates across mud, rubble, snow, and water, and is the world's only wheeled unmanned vehicle capable of transitioning from water directly onto ice. Patented ultra-low-pressure tyres reduce explosive trigger risk, and EW-resilient multi-layer communications — including LEO satellite and UAV relay — maintain control in fully contested and GNSS-denied environments.

SPECIFICATIONS	VALUE
Max Payload	1,700 kg
Dry Weight	2,200 kg
Max Speed	20 km/h
Battery Autonomy	6 HRS
Control Radius	10+ km
Battery Power	78 kW
Ground Clearance	600 mm
Obstacle Clearance	Up to 1 m
Gradeability	40°
Drive Type	Full Electric — Silent Operation
Operating Temp	-30°C to +40°C
NATO Certified	STANAG / NSN Assigned



03

SEA DOMAIN



UNMANNED SURFACE & UNDERWATER VEHICLES

Unmanned maritime systems extend operational reach across and beneath the water — conducting persistent ISR, port security, mine countermeasures, and subsurface reconnaissance without exposing personnel to the inherent risks of maritime operations. Surface vehicles provide long-endurance patrol and surveillance capability across open water and contested littoral environments, while underwater systems operate covertly beneath the surface where no crewed asset can go undetected. Together, they form a multi-layer maritime awareness and interdiction capability that redefines what small teams can control across vast operational areas. Mountain Horse Solutions offers two platforms in this category — one operating above the waterline, one below.

USV / UUV

Maritime Surface & Subsurface Systems

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03.1

PLATFORMS IN THIS SECTION

KRONOS

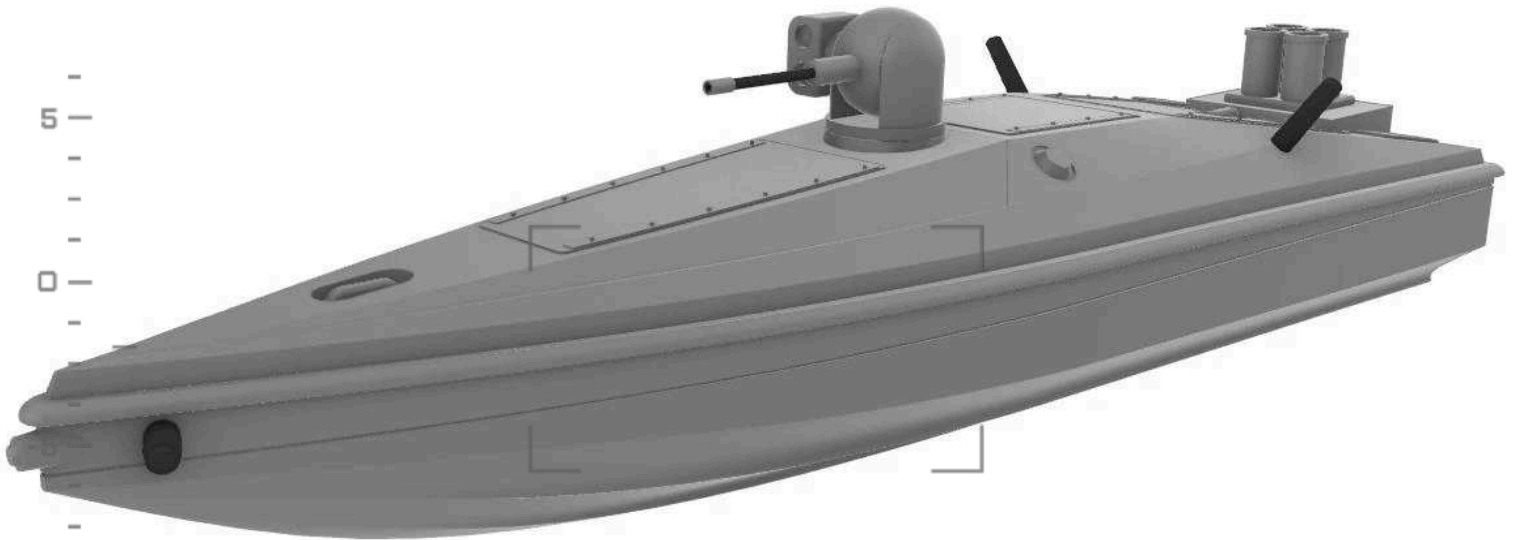
The KRONOS is an intelligent naval loitering system engineered for persistent maritime operations across a 500km operational range.

SWISE

The S-WISE is a hybrid multi-mission unmanned submarine capable of operating autonomously on the surface and submerged — independently or cooperatively — across MCM, ISR, and loitering munition mission profiles.

SURFACE SUPERIORITY | 500KM OF REACH

USV / UUV



5 350 355 N

KRONOS

500 KM RANGE

MODULAR PAYLOAD

MULTI-MISSION



The KRONOS is an intelligent naval loitering system engineered for persistent maritime operations across a 500km operational range. Designed to execute the full spectrum of strategic naval missions — from surveillance and reconnaissance to patrol, search and rescue, naval unit protection, and combat — the KRONOS operates autonomously with secure encrypted communications maintaining operator control throughout every mission. Its modular payload architecture supports ISR sensors, electronic warfare systems, and lethal effectors, enabling seamless integration alongside manned naval assets in combined operations. An adaptable, high-precision solution purpose-built for maritime dominance.

SPECIFICATIONS	VALUE
Operational Range	500+ km
Payload Capacity	200+ kg
Mission Roles	ISR • Patrol • EW • Escort • SAR • Combat
Payload Architecture	Modular — ISR, EW, lethal effectors
Communications	Secure encrypted
Integration	Combined naval operations with manned assets

BELOW THE SURFACE | BEYOND DETECTION | ALWAYS AUTONOMOUS

USV / UUV

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-5
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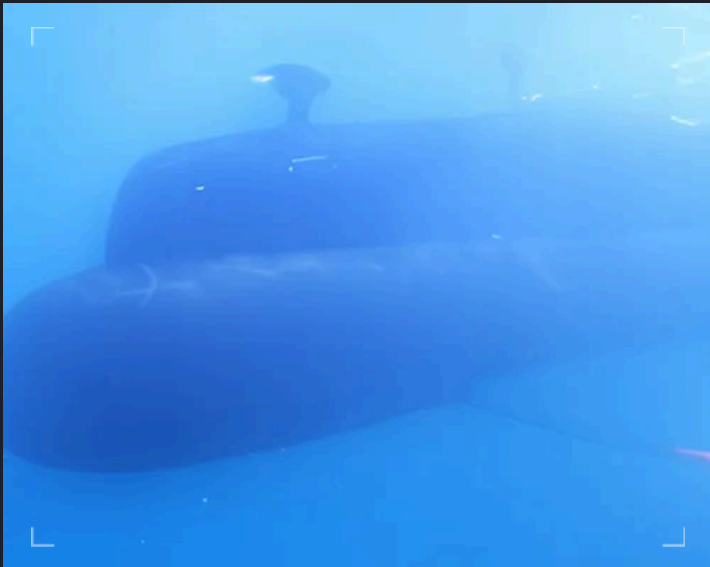
5 350 355 N

SWISE

GNSS-DENIED NAV

AI EDGE COMPUTING

MCM / ISR / STRIKE



The S-WISE is a hybrid multi-mission unmanned submarine capable of operating autonomously on the surface and submerged — independently or cooperatively — across MCM, ISR, and loitering munition mission profiles. Its innovative X-stern and foldable wing design deliver advanced maneuverability in confined and dynamic underwater environments where other UUVs fail, while GNSS-denied navigation with dead-reckoning functions ensures reliable operation in fully contested maritime domains. An onboard GPU processes convolutional neural networks for real-time object recognition, classification, and mission persistence — giving commanders genuine autonomous underwater intelligence at a fraction of the cost of legacy systems. Designed for distributed manufacturing using 3D-printed acoustically transparent plastics, S-WISE is as deployable from a remote island as it is from a fleet vessel.

SPECIFICATIONS	VALUE
Vehicle Type	Hybrid UUV — surface and submerged
Mission Roles	MCM • ISR • Loitering Munition
Navigation	Autonomous • GNSS-denied • Dead-reckoning
Design	X-stern • Foldable wing • Acoustically transparent
Computing	Edge GPU • CNN object recognition • AI classification
Payload	High internal and external flexibility
Simulation	Mission planning • Replay • AI synthetic imagery
Manufacturing	3D-printed • Distributed production capable



04

COMPONENTS & FORCE MULTIPLIERS



C-UAS / LETHAL PAYLOADS / SOFTWARE / SENSORS

The platforms are only part of the equation. Force multipliers — detection systems, precision fusing, software layers, and counter-UAS tools — are what transform individual assets into integrated, lethal, and survivable systems. This section covers the components that plug into existing platforms and infrastructure to extend capability, harden survivability, and close the kill chain faster. From compact drone detectors that push situational awareness to the squad level, to dual-safe munitions fusing that enables any FPV to carry ordnance, to AI-driven software that unifies multi-domain sensor feeds in real time — these are the tools that give operators the edge when the platform alone is not enough. Mountain Horse Solutions offers seven systems in this category spanning detection, electronic warfare, lethal payload integration, and command software.

C-UAS / LETHAL PAYLOADS / SOFTWARE / SENSORS

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04.1

PLATFORMS IN THIS SECTION

DUXS

The DuXS is a combat-proven, TRL-9 compact drone detection system engineered for high-reliability aerial surveillance at the squad and platoon level.

ARIES

ARIES (Aerial Remote Explosives Initiation System) is a compact, dual-safe modular fusing solution designed for UAS-deployed munitions across both ordnance drop and kinetic one-way (kamikaze) mission profiles.

SKUBLOCK

SkyBlock is a single-operator portable C-RPAS jamming rifle designed to neutralize hostile drones without causing physical damage — preserving the platform for capture, forensic analysis, and operator tracking.

15KM DETECTION / 200 GRAMS / ATAK READY

C-UAS / LETHAL PAYLOADS / SOFTWARE / SENSORS

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DUXS

ATAK INTEGRATED

AI-ENHANCED DETECTION

NDAA COMPLIANT



DuXS (Detect Unmanned Systems) is a pocket-sized passive RF drone detector that gives individual soldiers early warning of UAS threats. It is combat-proven at TRL 9, with more than 50,000 units fielded by the Ukrainian Armed Forces. It detects military UAS such as the Lancet, Orlan, ZALA, and Shahed at up to 15 km, and commercial DJI platforms within 1 km. A Fast Scan mode covers the most common UAS bands, and a Scan All mode sweeps 100 MHz to 6 GHz. An onboard low-power AI chip helps identify the drone type. DuXS runs standalone with vibration, audio, and LED alerts, and it connects to ATAK/TAK to share detections across the network. It weighs 200 g, runs 6–12 hours on an 18650 cell or USB power, and needs no training to use: power it on and it starts detecting.

SPECIFICATIONS	VALUE
Detection Range (Military)	Up to 15 km
Detection Range (Commercial)	Up to 1 km
Weight	200g
Dimensions	79mm W × 122mm H × 36mm D
Battery Life	6–12 HRS (18650 or USB)
Frequency Coverage (Fast Scan)	400MHz–1020MHz / 1.1–1.3GHz / 2.3–2.6GHz / 5.75–5.9GHz
Frequency Coverage (Scan All)	100MHz – 6GHz
Alert Types	Vibration / Sound / LED
Software	ATAK Compatible
Material	MJF Nylon
NDAA	Compliant

DROP OR STRIKE / ONE SYSTEM / DUAL-SAFE

C-UAS / LETHAL PAYLOADS / SOFTWARE / SENSORS

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N

REMOVE BEFORE F

AREIS

DUAL-SAFE

NDAA COMPLIANT

MADE IN THE USA



AREIS (Aerial Remote Explosives Initiation System) is a compact, dual-safe modular fusing solution designed for UAS-deployed munitions across both ordnance drop and kinetic one-way (kamikaze) mission profiles. Built around a lightweight 3D-printed nose cap with a custom PCB, it bridges the critical safety gap between improvised field methods and high-cost military hardware — and fits a wide range of standard munitions without platform modification. A six-position programmable IR sensor dial provides adjustable detonation distances from three meters to direct contact, while multi-layered physical interlocks — including Remove Before Flight pins, Fly-Away lanyards, and manual toggle switches — ensure maximum ground-handling security. NDAA compliant, mass producible, and made in the USA.

SPECIFICATIONS	VALUE
Dimensions	203mm L × 101mm W
Weight	220g
Material	PETG
Ordnance Compatibility	Half + Full C4 Block
Detonation Range	3m to Direct Contact / Bunker Buster
Power	Self-Contained Battery (Drop) / Servo-Relay (Kamikaze)
Mission Profiles	Ordnance Drop / Kinetic OWE
Environmental Hardening	IR / Rain / Snow / Sun Reflection Filtered
NDAA	Compliant
Origin	Made in the USA

ONE TRIGGER / NINE BANDS / DRONE NEUTRALIZED

C-UAS / LETHAL PAYLOADS / SOFTWARE / SENSORS



SKYBLOCK

9-BAND RF JAMMING

NON-DESTRUCTIVE

SINGLE OPERATOR



SkyBlock is a single-operator portable C-RPAS jamming rifle designed to neutralize hostile drones without causing physical damage — preserving the platform for capture, forensic analysis, and operator tracking. By pressing the trigger, the operator simultaneously disrupts the drone's remote control communications, blocks video and image transmission, and cancels satellite navigation signals across up to nine individual frequency bands selectable on the fly. Depending on programming, SkyBlock forces a controlled landing, triggers return-to-home, enables remote control tracking, or freezes the drone in static flight — giving the operator complete tactical control of the outcome. Built from aluminum and ABS with ultralight directional antennas, SkyBlock is combat-weight balanced for extended single-person operation up to 90 minutes on a single charge.

SPECIFICATIONS	VALUE
Type	Portable RF jamming rifle — single operator
Inhibition Bands	Up to 9 bands — individually selectable
Effective Range	Up to 2 km
Autonomy	Up to 90 min
Structure	Aluminum and ABS
Antennas	Ultralight directional
Activation	Single trigger press
Effect Options	Forced landing / RTH / Static hold / Comms block
Design	Hostile environment rated



MOUNTAIN HORSE SOLUTIONS
A GLOBAL ORDNANCE COMPANY



RICHARD BUDNIEWSKI

Director of UAS/CUAS Program



✉ richard.budniewski@mtnhorse.com

☎ (941) 376-9146