




TRAIN AGAINST THE THREAT THAT
RESHAPED MODERN AIR DEFENSE.

AY-136^W REPLICAS

[V 1.0]



REAL SHAPE. REAL SIGNATURE.
BUILT FOR SCALE.



The **AY-136^W Replica** is a full-scale, cost-efficient surrogate of the Shahed-136, engineered for high-frequency C-UAS training, detection system validation, and large-scale live-fire exercises.

Designed to replicate the visual, acoustic, and operational signature of the real-world loitering munition that reshaped modern warfare, it enables realistic and scalable threat simulation.

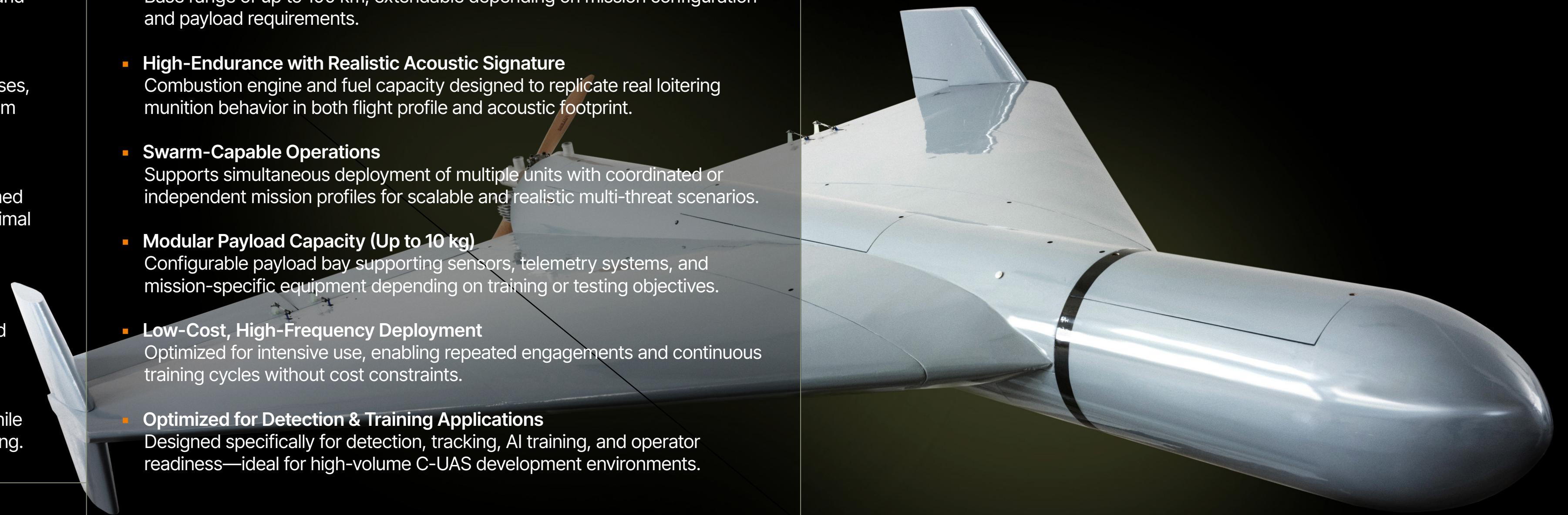
The **AY-136^W Replica** removes the cost and complexity barriers of traditional high-fidelity targets, enabling continuous, high-volume training and system validation against **realistic loitering munition threats**.



Use Cases

Scalable. Autonomous. Training-Ready.

- **Full-Scale Threat Geometry**
1:1 replication of the Shahed-136 ensuring realistic visual, radar, and acoustic signatures for detection and tracking validation.
- **RCS-Tunable with Lüneburg Lenses**
Configurable radar cross-section through optional Lüneburg lenses, enabling tailored signature profiles for advanced detection system testing.
- **Autonomous Mission Execution**
Fully autonomous takeoff, flight, and landing with pre-programmed mission profiles, enabling repeatable training scenarios with minimal operator input.
- **Runway-Based Deployment (No Launch System Required)**
Equipped with steerable landing gear, allowing operations from unprepared surfaces without the need for catapults or dedicated launch infrastructure.
- **Realistic Speed Profile at Reduced Mass**
Achieves comparable top speed to real Shahed-class threats while operating at lower weight, ensuring safe and cost-efficient training.
- **Extended Operational Range**
Base range of up to 100 km, extendable depending on mission configuration and payload requirements.
- **High-Endurance with Realistic Acoustic Signature**
Combustion engine and fuel capacity designed to replicate real loitering munition behavior in both flight profile and acoustic footprint.
- **Swarm-Capable Operations**
Supports simultaneous deployment of multiple units with coordinated or independent mission profiles for scalable and realistic multi-threat scenarios.
- **Modular Payload Capacity (Up to 10 kg)**
Configurable payload bay supporting sensors, telemetry systems, and mission-specific equipment depending on training or testing objectives.
- **Low-Cost, High-Frequency Deployment**
Optimized for intensive use, enabling repeated engagements and continuous training cycles without cost constraints.
- **Optimized for Detection & Training Applications**
Designed specifically for detection, tracking, AI training, and operator readiness—ideal for high-volume C-UAS development environments.

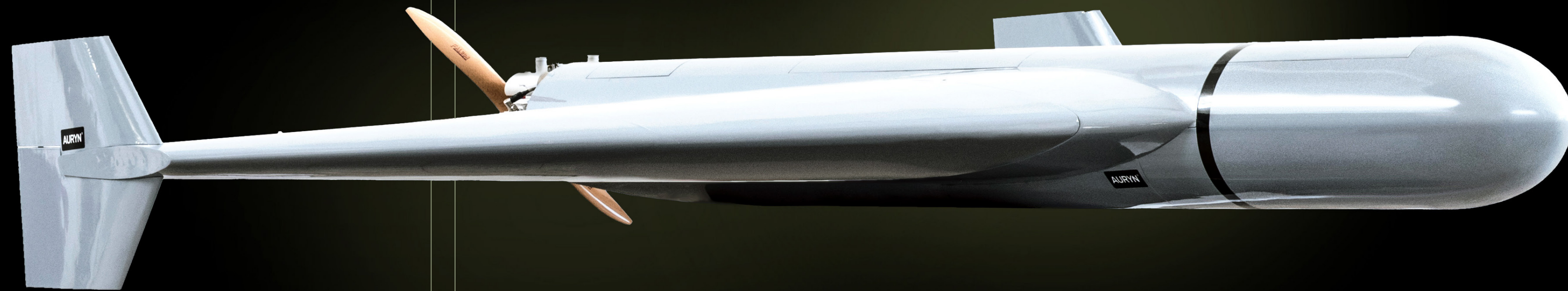




AY-136 REPLICA

→ OPERATIONAL ADVANTAGE

REAL SHAPE.
REAL SIGNATURE.
BUILT FOR SCALE.




Whether used as an **expendable target** or a recoverable **training drone**, the **AY-136^W REPLICA** delivers **real-world threat** behavior in a format that is safe, scalable, and field-proven.

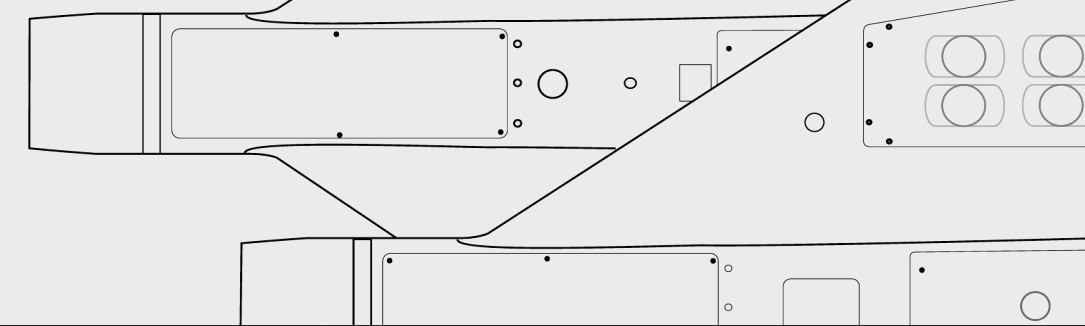
AY-136^W REPLICA [V 1.0]

Rebooting Aerospace
in the Autonomy age

AURYN[®] AERO

 NATO OTAN NATO Capability Class: PROTECTION I SMALL
NATO Class: I SMALL

TECHNICAL DATASHEET



01 / [AIRFRAME] Wood + Fiberglass structure

Wingspan	2.5 m	Lenght	2.8 m
Configuration	Fixed-wing loitering type	Landing	Gear fixed with steering capability

02 / [PERFORMANCE*]

Endurance	60 mins	Max Range	150 km
Ceiling	3000 m	Operating Speed	150 kph
Max Speed	180 kph	Dash speed	250 kph
Max Takeoff Weight	40 kg	Payload Capacity	10 kg

03 / [LAUNCH & RECOVERY]

04 / [PROPULSION & SIGNATURE]

Take-Off Method	Take-off from runway / Pneumatic launcher	Engine Type	Two-stroke, Two cylinder with Starter
Take-Off Distance	100 m	Engine Power	12.5 hp
Landing Method	Conventional landing		

05 / [FLIGHT & MISSION]

Flight Modes	Navigation System	Mission Profiles	Swarm Capability
Manual, Assisted, Fully autonomous based on GPS waypoints	GNSS / INS	Waypoints, Loiter, Attack profiles, Custom	Pre-programmed multi-unit Deployment

06 / [OPERATIONAL]

07 / [OPTIONAL CONFIGURATIONS]

Deployment Time	10 mins	RCS Tuning	Lüneburg lenses
Turnaround Time	10 mins	Payload Options	EO/IR, Telemetry, Decoy systems
High-Frequency Deployment Capability Operational Cost Efficiency		Range Extension Options Swarm Operations	

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 OUR PRODUCTS PURCHASES INCLUDE ALL THE NECESSARY DOCUMENTATION, A BULK HOURS OF CUSTOMER TRAINING AND A COMPREHENSIVE AFTER-SALE ASSISTANCE AND PRE-PLANNED MAINTENANCE. CONTACT US TODAY TO BOOK A FLIGHT DEMONSTRATION! THIS PRODUCT, TRADEMARK AND NAME IS UNDER PATENT APPLICATION.
 AVAILABLE IN NDAA VERSION FOR US MARKET

NOTE: Specifications are subject to environmental factors, aircraft configurations, and flight mission profiles.
 * Weather conditions will create variability in performance specifications. For example, strong tailwinds can result in aircraft range that exceeds current advertised product specifications. Similarly, headwinds and other environmental factors can reduce aircraft range below what is currently advertised.
 **Release dates vary by payload



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