



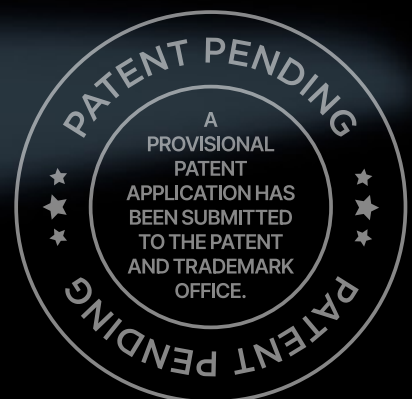
REUSABLE TRAINING ASSET THAT PAYS  
FOR ITSELF, MISSION AFTER MISSION.

# AY-44Q

ZOMBIE  
[V 1.3]



ENGAGE, RECOVER...  
REPEAT.





**AY-44Q Zombie** is a reusable multirotor target drone designed to replicate real-world UAS threats for C-UAS training and validation.





Lightweight, aggressive, and reusable, it delivers realistic threat simulation without sacrificing cost-efficiency or operational tempo.



## Use Cases

Smart Target. Real Training Value.

- C-UAS Training with Kinetic Countermeasures**  
 Optimized for close-range counter-UAS training using kinetic solutions (e.g. shotgun-based systems), enabling realistic engagement of small, fast-moving aerial targets in dynamic scenarios. realistic drone threats and swarming behavior.
- Pilot Training in High-Risk Scenarios**  
 Impact-tolerant and field-repairable platform enabling intensive pilot training, including aggressive maneuvers, pursuit, and intercept drills without high asset loss
- Sensor Validation & System Calibration**  
 Performance testing and tuning of radar, EO/IR, RF and acoustic systems against low-signature, high-mobility aerial targets.
- Red Teaming & Adversary Simulation**  
 Simulation of hostile drone behaviors to stress-test defensive systems, tactics and response chains under realistic operational conditions.
- Swarm & Saturation Scenarios**  
 Coordinated multi-drone missions to replicate mass attacks and validate counter-swarm capabilities under realistic operational loads.

## Key Features

Crashable. Reusable. Mission-Ready.

- Impact-Tolerant Dual-Shell Airframe**  
 Designed to absorb impacts while protecting critical systems (GNSS, avionics, power units), enabling rapid redeployment after engagement.
- Breakaway Arm System**  
 Damage-isolating architecture minimizing repair time and preserving core components after neutralization.
- Simple Mission Planning Interface**  
 Intuitive ground control interface enabling rapid programming of autonomous missions (waypoints, attack runs, swarm patterns) with minimal operator workload.
- Autonomous & Assisted Flight Modes**  
 GNSS-based navigation with waypoint, loiter, return-to-home and emergency logic for fully automated or pilot-assisted operations.
- Swarm-Ready with Independent Programmable Mission Profiles**  
 Simultaneous operation of multiple units with independently programmable flight behaviors to replicate coordinated or unpredictable threat scenarios.
- Surprise & Saturation Training Capability**  
 Enables sudden, multi-vector drone appearances to simulate real-world ambush and saturation attacks—ideal for shotgun-based C-UAS training.
- Rapid Field Repair & Turnaround**  
 Modular architecture allowing quick replacement of damaged components and redeployment within minutes.
- Flexible Payload & Datalink Options**  
 Supports analog, FHD, or 4K video systems and multiple communication protocols (Wi-Fi, BLE, LoRa, 2.4 / 5 GHz).

## Operating Modes

→ Manual Pilot Mode

**Single-unit operation** with full pilot control for dynamic maneuvering, intercept simulation, and real-time engagement training in unpredictable scenarios.

→ Autonomous Mission Mode (Single Unit)

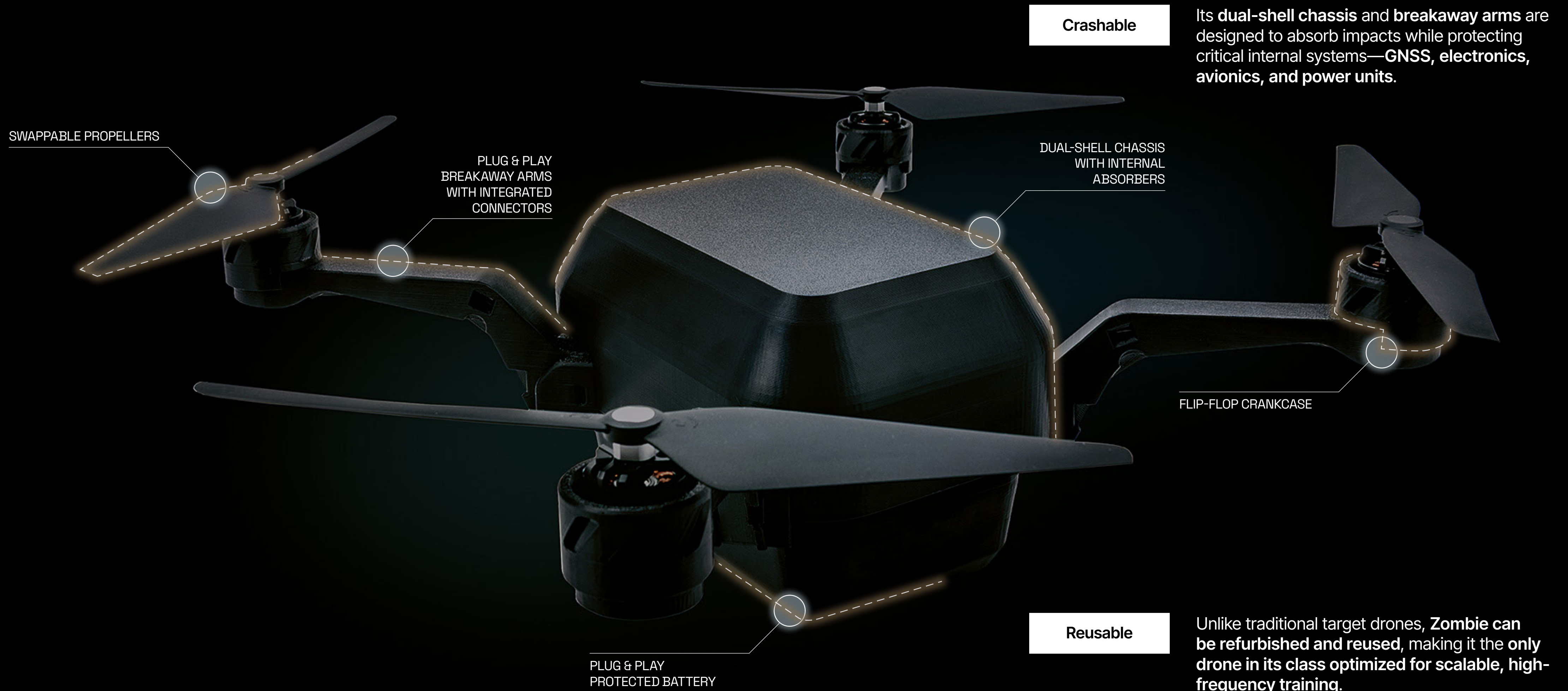
**Pre-programmed autonomous flight** with configurable waypoints and behaviors, enabling repeatable, operator-light training scenarios without manual piloting.

→ Swarm Autonomous Mode

**Coordinated multi-unit operations** with independently programmed mission profiles, enabling synchronized or unpredictable swarm behaviors for saturation, ambush, and advanced C-UAS training.

From controlled flights to unpredictable swarm threats.

**One platform. Three levels of operational complexity.**



SWAPPABLE PROPELLERS

PLUG & PLAY  
BREAKAWAY ARMS  
WITH INTEGRATED  
CONNECTORS

**Crashable**

Its **dual-shell chassis** and **breakaway arms** are designed to absorb impacts while protecting critical internal systems—**GNSS, electronics, avionics, and power units.**

DUAL-SHELL CHASSIS  
WITH INTERNAL  
ABSORBERS

FLIP-FLOP CRANKCASE

**Reusable**

Unlike traditional target drones, **Zombie can be refurbished and reused**, making it the **only drone in its class optimized for scalable, high-frequency training.**

PLUG & PLAY  
PROTECTED BATTERY

TRAIN MORE.  
BURN LESS.  
RECOVER VALUE.

AY-44Q Zombie slashes per-mission costs by preserving the most expensive components, even after damage. Its modular architecture allows **fast replacement of broken parts and redeployment in minutes**. Ideal for intensive training campaigns, test ranges, or force-on-force simulation, it delivers a balance of realism, expendability, and savings.

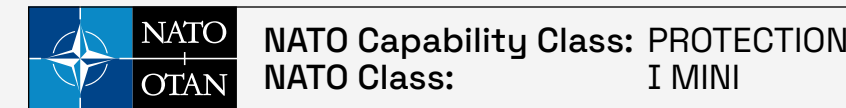


# AY-44Q ZOMBIE

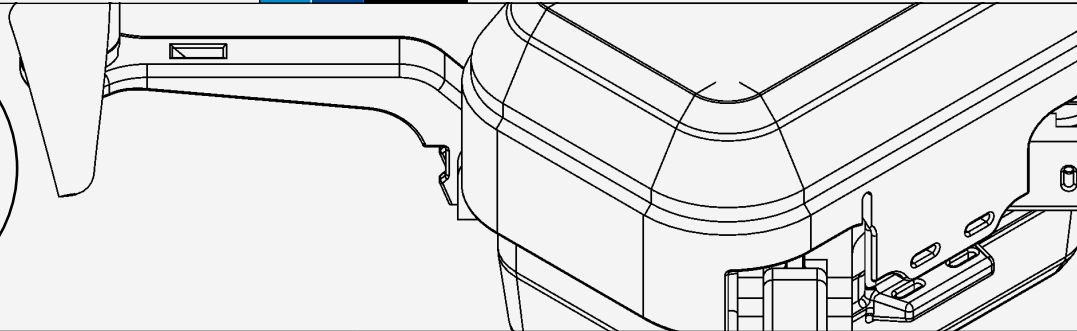
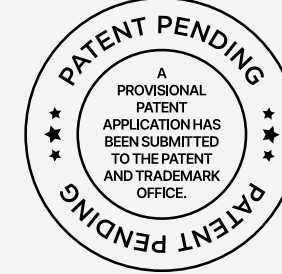
[ V 1.3 ]

Rebooting Aerospace  
in the Autonomy age

AURYN<sup>®</sup>AERO



## TECHNICAL DATASHEET



### 01 / [ AIRFRAME ]

Dimensions	377 x 377 x 160 mm	Airframe Material	3D Printed
Configuration	Quadcopter	Frame Type	Dual-shell + Damping impact-tolerant structure

### 02 / [ PERFORMANCE\* ]

Max Flight Time	22 mins	Max Range	3 km (limited by datalink)
Cruise Speed	15 m/s	Max Takeoff Weight	1.56 kg
Max Speed	19 m/s	Max Payload Capacity	0.5 kg

### 03 / [ FLIGHT & MISSION ]

Flight Modes	Navigation Modes	Positioning System	Swarm Capability GNSS
Pos Hold, Alt Hold, Stabilized, Guided, Acro, RTL, Auto	Manual or Auto with Waypoint	GNSS	Pre-programmed multi-unit coordinated or independent missions

### 04 / [ CONTROL & COMMUNICATIONS ]

Control Range	3 km
Datalink Options	Wi-Fi, BLE, LoRa, 2.4 / 5 GHz
Video Transmission	Analog / FHD / 4K

### 05 / [ ENVIRONMENTAL ]

Max Wind Resistance	25 m/s
Operating Temperature Range	-10° / 50° c
Max Service Ceiling (A.S.L.)	3000 m

### 06 / [ PAYLOAD & SENSORS ]

Payload Options	Analog, FHD, 4K camera systems
Sensor Compatibility	-
Payload Mounting Options	-

### 07 / [ OPERATIONAL ]

Deployment Time	1 min
Turnaround Time	3 mins
Impact Resistance	Breakaway arms, crash-tolerant chassis

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AVAILABLE IN NDAA VERSION FOR US MARKET

NOTE: Specifications are subject to environmental factors, aircraft configurations, and flight mission profile.

\* 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



Choosing **AY-44Q Zombie** means investing in a platform that is **field-tested and combat-ready**. With **hundreds of units in service**, this drone is **flying today** in **Europe and the U.S.**, trusted by leading defense players. It is entirely **designed and built in Italy**, backed by a **dedicated engineering team**, and supported with direct technical assistance and customization capabilities.



# Rebooting Aerospace in the Autonomy age

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