

MADE IN USA

MAV-XT

**Expendable Group 1 sUAS
Target Drone**

*"The Affordable Clay Pigeon
for Modern Drone Warfare"*



Designed specifically as a low-cost, realistic aerial target for individual warfighter C-UAS training and live-fire testing of kinetic counter-UAS systems.

- High-volume expendable use
- Realistic threat emulation
- Swarm-capable
- Rapid field deployment

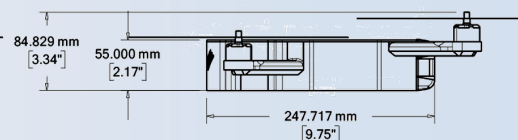
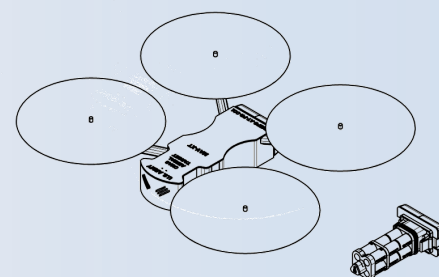
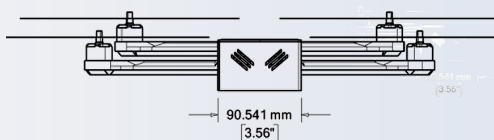
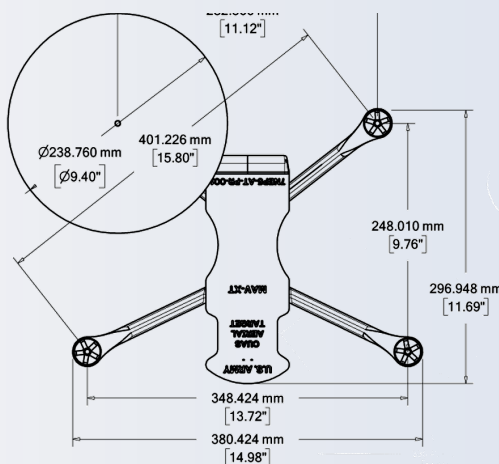
Key Features:

- Extremely affordable and expendable — built for high-volume training
- 45+ minute endurance in realistic wind conditions
- Compact design with IP-65 weather resistance
- Dual-band long-range C2 with AES encryption
- Autonomous waypoint missions + full manual control for dynamic threat profiles
- Swarm-ready GCS with point-and-click multi-drone control
- Field-serviceable modular components for low life-cycle cost

Why Choose MAV-XT?

Engineered for affordability and expendability, the MAV-XT delivers highly realistic small UAS threat emulation at a fraction of the cost of traditional targets. Its low-cost design allows operators to train aggressively without worrying about expensive losses, while its performance closely mirrors real-world threats.

Perfect for individual warfighter live-fire training, unit-level counter-UAS (CUAS) exercises and rigorous kinetic intercept system testing. MAV-XT enables more frequent, realistic, and effective training scenarios that build true operational readiness.



Contact Autonomous Flight Technologies Visit
www.autonomousflight.us
Email: info@autonomousflight.us | Phone: (540)
647-0484
FAA-Approved for Commercial UAS Operations
(Exemption No. 13319)



Aircraft Physical & Dimensional Specifications

Parameter	Specification
Dimensions (L × W × H) Unfolded (w/o rotors)	297 × 381 × 85 mm (11.7" × 15" × 3.3")
Wheelbase	400 mm (15.75")
Propellers diameter	229–239 mm (9.0–9.4")
Empty Weight (no battery/payload)	603.3 g (1.33 lbs)
Typical Takeoff Weight	1,047.8 g (2.31 lbs)
Maximum Takeoff Weight (MTOW)	1,580 g (~3.47 lbs)
Construction	PETG FDM additive manufacturing
Environmental Protection	IP-65 dust & water resistance

Payload & Safety

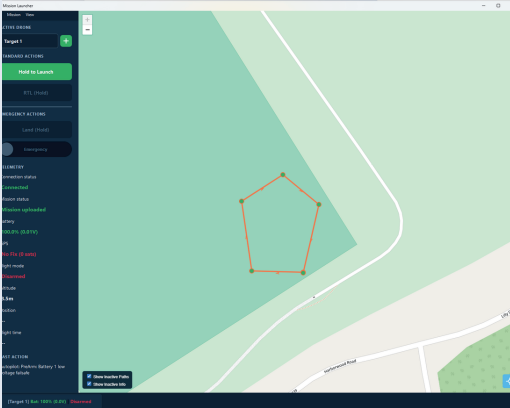
Category	Specification
Maximum Payload Capacity	533 g (1.16 lbs)
Safety Features	Geofencing, low-voltage return, autonomous failsafe RTH
Classification	Group 1 sUAS (well below FAA Part 107 55 lb limit)
Data Link Security	Frequency hopping + AES128/AES256



Control, Communication & Avionics

Parameter	Specification
C2 Link	Dual-band 2.4 GHz / 915 MHz, up to 16 km (10 mi) LOS
Encryption	Frequency hopping + AES128 / AES256 telemetry
Flight Controller	6-DoF IMU, barometer, compass, multi-constellation GNSS
Flight Modes	Autonomous waypoint missions (dynamic planning), full manual control, Return-to-Home (failsafe & pilot- initiated)
GCS Software	Proprietary Windows & Linux app (swarm simulation, point-and- click multi-drone control, dynamic altitude/speed profiles) MAVLink compatible with Mission Planner & QGroundControl
Remote ID	Available (not included in standard C-UAS target configuration)

CUSTOM GCS SWARM CAPABLE
(Winows & Linux)



Performance & Flight Characteristics

Parameter	Specification
Endurance	45+ minutes
Maximum Speed	72 kph (45 mph) level flight
Maximum Range	~16 km (10 mi) clear line of sight
Service Ceiling	6,000 m ASL ~20,000 ft
Wind Resistance	10 m/s (20 mph) 15 m/s (35 mph) gusts
Operating Temperature	0–40 °C (32–104 °F)

Power & Charging

Parameter	Specification
Deployment Time	Typically under 5 minutes
Ground Control Station	Linux & Windows proprietary interface with swarm simulation
Maintenance	Field-serviceable modular components

Setup & Support

Parameter	Specification
Battery	4S Li-Ion, 6000 mAh
Charging	3C fast charge capability (avg. 1 hour)

Notes Specifications subject to change. Performance data obtained under test conditions (sea level, moderate temperature, no payload unless noted). Actual results may vary with payload, wind, altitude, and temperature. Optimized for cost-effective, high-volume expendable use.