

TRAINED TO PUSH BOUNDARIES.  
READY TO BE AUTOMATED OR  
NETWORKED.

# AY → 100

HP 10" FPV EFFECTOR

DESIGNED TO CLOSE THE MISSION.  
ENGINEERED FOR PERFORMANCE.





The **AY-100 FPV** is a next-generation heavy FPV drone designed for high-speed, high-payload, real-world tactical scenarios.



Powered by oversized 55A ESCs and optimized for both one-way and two-way missions, it offers an extended 30 km operational range and up to 3.5 kg payload capacity – enabling long-range strikes, tactical delivery, and advanced ISR capabilities.



# Capabilities

## Precision Delivery Operations.

- Configurable for **kinetic or inert loads**.
- **Stable cruise at 80 km/h** for up to 25 minutes.
- Supports **autonomous** delivery paths or **FPV manual** flight modes.

## Relay & Network Extension.

- **Multi-band comms** (868, 900 MHz, 2.4 / 5 GHz).
- **4G/5G** and **mesh-ready** radio integration.
- **Programmable waypoint** or loitering relay logic.

## Anti-Aircraft Engagement (C-Uas).

- **Ideal for sacrificial** intercept missions.
- **Thermal seeker** or AI visual tracker optional.
- Manual override via **TBS/ELRS** for direct control kills.





AY-100 FPV

## Avionics

### Integrated Avionics or Payload (opt. on request)

- Up to high precision multi-constellation GNSS RTK.
- Ultra-Wide Band (UWB) devices.
- Analog, digital video transmitter (different powers).
- Analog, digital camera (OpenIPC OS compatible), or thermal.
- AI companion computer Lite.

### Datalink (opt. on request)

- Main control and telemetry frequency bands: 5 GHz / 2.4 GHz / 900 MHz / 868 MHz / 433 MHz, and others.
- Main drone control type: ELRS or TBS.
- MANET MESH radio, 4G/5G.
- Satellite communication.
- LoRa, LoRaWAN modules.
- Data encryption AES 128 / 256 bits.

### Navigation modes

- Up to 20 (Waypoint, Loiter, Position Hold, GoTo, GoHome, Return to Pilot, etc.).
- Automatic emergency procedures.
- Programmable SWARMING flight missions(\*\*).

## Autonomy & AI

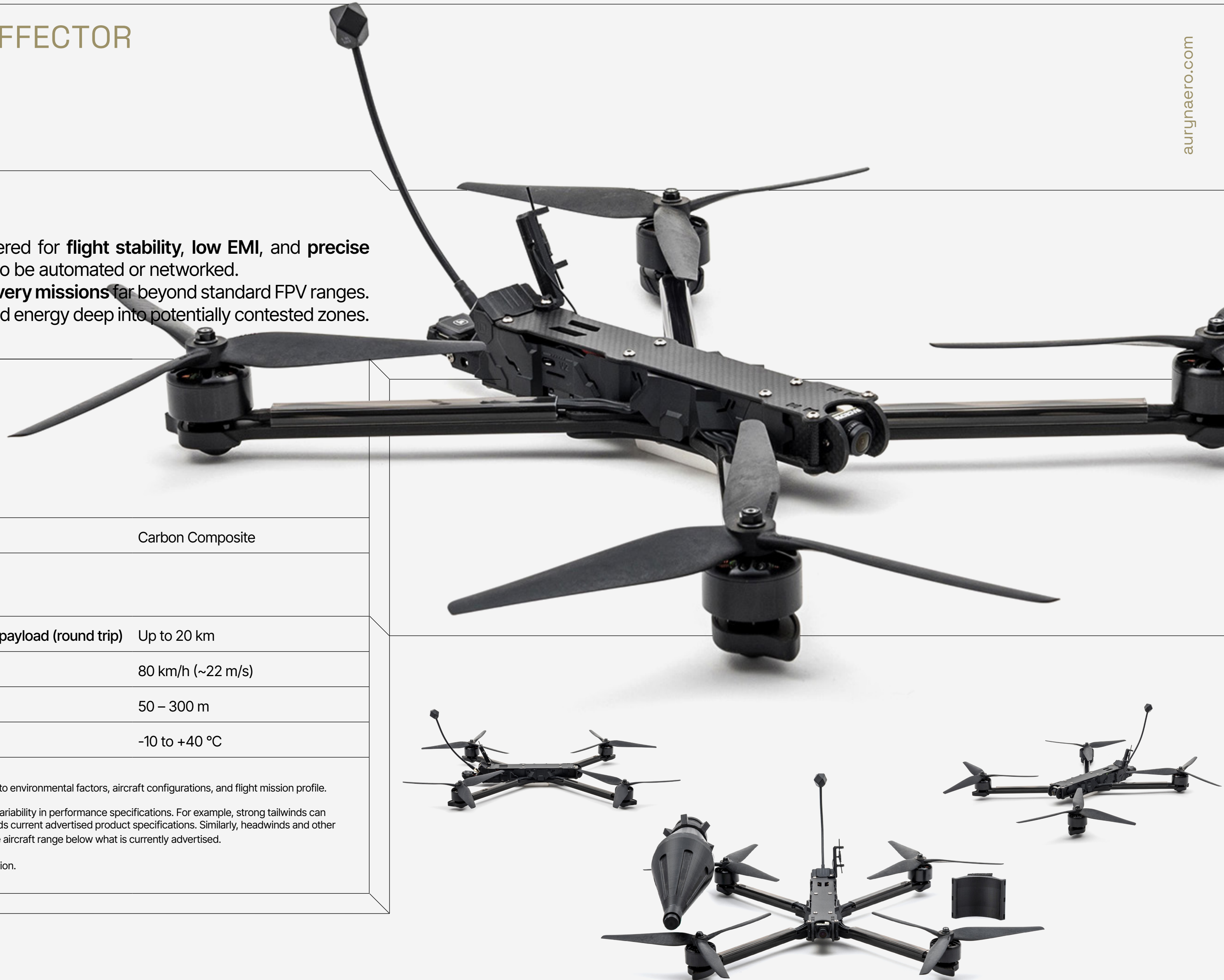
### Navigation

- Optional Denied GNSS/GPS Navigation and Complex Environment.
- Optional Map matching/Terrain Following.



# AY>100 HP 10" FPV EFFECTOR

Every component — from **reinforced carbon frame to AI-ready avionics** — is engineered for **flight stability, low EMI, and precise response** under duress. Built for forward deployment. Trained to push boundaries. Ready to be automated or networked. With **up to 3.5 kg payload and 120 km/h top speed**, the AY-100 FPV enables **precision delivery missions** far beyond standard FPV ranges. Whether carrying **tactical payloads, drop pods, or breaching tools**, it maintains stability and energy deep into potentially contested zones.



## TECHNICAL DATASHEET



01 / [ AIRFRAME ]

Dimensions	340 × 300 × 90 mm	Airframe Material	Carbon Composite
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02 / [ PERFORMANCE\* ]

Max. Flight Time (*)	Up to 25 min	Operational range with payload (round trip)	Up to 20 km
Maximum one-way range	Up to 30 km	Cruise Speed (*)	80 km/h (~22 m/s)
Max. Cruise Speed (*)	120 km/h (~33 m/s)	Operating altitude	50 – 300 m
Max. Service Altitude (A.M.S.L)	3000 m	Op. Temp. Range	-10 to +40 °C

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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 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.

\*\*Depending on drone configuration.

 NATO Capability Class: LETHALITY  
NATO Class: I MINI

# Rebooting Aerospace in the Autonomy age

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