

EVOTURBO COMPASS

⌚ 4,5 h
✈ 30 km
⚖ 29 kg



Flight characteristics

MTOW	40 kg
Flight autonomy without hybrid	Up to 55 minutes
Flight autonomy with hybrid	Up to 4 hours and 30 minutes
Operating temperature	-40° to 55°
Hybrid dry mass	22.7 kg
Hybrid wet mass	29 kg
Mass without batteries	12.7 kg
Mass with batteries	17 kg
Payload (without camera)	10 kg
Range	30 km with Encryption (AES 256) and Cybersecurity
Fuel capacity	8L
Rescue / emergency	Parachute

UAV type and dimensions

UAV Configuration	Multi-rotor
Number of motors	8
Propeller dimension	Ø32,2 in
Motor-to-Motor diameter	Ø2218 mm
Height	973

Hybrid system weight	10 kg
Max. Rated PowerMax	4000W
Max. Current	100A
Voltage	48VDC
Fuel type	Gasoline +2% Oil
Fuel System	Fuel Injection
Max. Fuel Consumption	5300 ml/h

Energy source – HYBRID

FADEC (Full Authority Digital Engine Control): An advanced onboard computer automatically optimizes the hybrid system using real-time monitoring.
Fully Automated Operation: This system guarantees seamless, hands-free power management throughout the entire flight.

↘ Battery configuration:

- Dual series-connected LiPo batteries
- Voltage: 48VDC

↘ Tether configuration:

- Tether system with 100m cable
- Tether system comprises a 21 kg ground unit and 0.9 kg airborne unit

↘ Hybrid configuration:

- Long-Range Flight Autonomy
- Full Authority Digital Engine Control developed by COMOTI

↘ Obstacle Avoidance: 360° LiDAR-based system for omnidirectional collision prevention and flight safety

↘ Dual GNSS system

↘ Carbon fiber and magnesium alloy structure, made by COMOTI

EVOTURBO COMPASS

EVOTURBO COMPASS redefines hybrid endurance flight. Unlike conventional UAVs limited by short battery life, this heavy-duty octocopter is built around a modular hybrid power plant where a thermal piston engine drives an onboard electric generator.

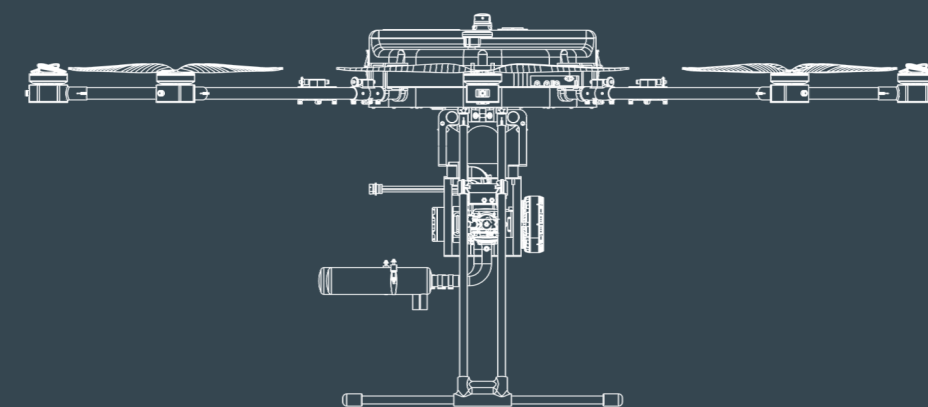
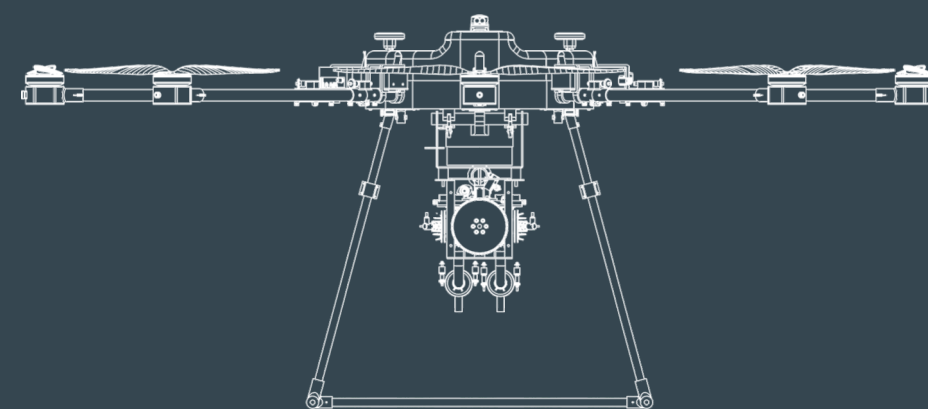
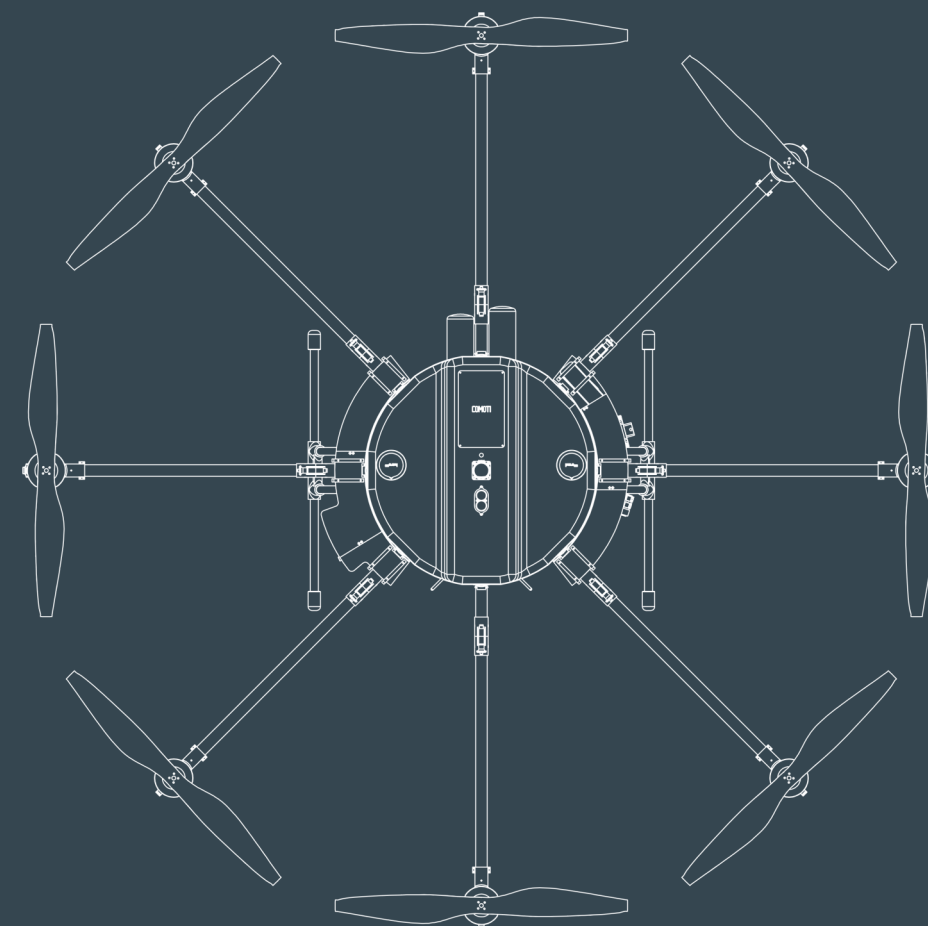
Its autonomous hybrid control system efficiently converts fuel into electrical energy, delivering extended flight autonomy, exceptional range, and adaptive energy management. Designed for critical missions, EVOTURBO COMPASS ensures maximum reliability, sustained performance, and operational efficiency in demanding environments.

UNMANNED AIRCRAFT SYSTEMS

EVOTURBO COMPASS



Designed for industrial reliability, this rugged Ground Control Station is powered by a high-performance Intel Core i5/i7 processor running Windows 10. Featuring a bright 10-inch FHD display and an IP65 weather-resistant design, it ensures precise control and clear data visualization even in harsh environments. With hot-swappable batteries and extensive connectivity, your operations remain uninterrupted and fully connected.



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