



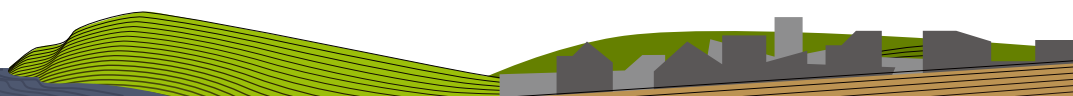
AEROSTAR TUAS

The Aerostar TUAS is one of the most successful systems of its kind. Operationally proven on four continents with a flight log of more than 100,000 hours, the Aerostar's performance and reliability are unprecedented in the UAS industry.



AEROSTAR TUAS SYSTEM - MAIN FEATURES

- Best payload to weight ratio
- Best performance to platform size ratio
- Multi payload capability
- Multiple autonomous programmable flight modes
- Fully directional digital data link enables 250 km LOS operation range
- Highly reliable fuel-injection engine
- Advanced flight management system (UMAS™)
- Accurate GPS/INS navigation and targeting
- Wide range of ground control stations
- Small logistic footprint
- User friendly operation
- Transportable via designated ruggedized cases
- Combat proven - mature and operational system





AEROSTAR - SPECIFICATIONS

Performance

Range	250 km
Endurance	>12 hours
Loiter speed	55 knots
Dash speed	110 knots
Service ceiling	18,000 ft

Technical Data

Wingspan	8.5 m / 25 ft
Length	4.5 m / 15 ft
Height	1.3 m / 4.3 ft
MTOW	220 kg / 485 lb
Max. Payload weight ...	50 kg / 110 lb

AEROSTAR TUAS FEATURES

Airframe

The high wing and pusher-propeller configuration is ideal for surveillance and flight stability, giving the Aerostar excellent aerodynamic performance.

Manufacture is totally in-house, enabling tailored modifications to meet special customer requirements, rapid production and precise systems integration.

Flight Management System (UMAS™)

All Aerostar systems (engine, flight control, navigation, payload and communications) are controlled by the Aeronautics' state-of-the-art UMAS™ digital Flight Control System package.

Payloads

Aerostar interfaces with any payload, including advanced stabilized high definition EO/IR sensors, Synthetic Aperture Radar (SAR), COMMINT and ELINT sensors and other advanced payloads.

Aerostar can also support multiple payloads simultaneously due to its flexible control architecture and large payload bay.

Ground Control Station

The Ground Control Station (GCS) enables fail-safe flight operation and user-friendly interface for route planning, choice of operational modes, payload control and target localization.

For independent reception in the battlefield, the GCS is complemented by Remote Video Terminals (RVT). In addition, Aeronautics GCS features embedded simulation capabilities.

Data link

The Aerostar system uses an advanced, multi-channel digital data link system, developed by Commtact Ltd. With directional antennas on the Aerostar as well as on the ground, LOS control range reaches 250 km. A larger mission range could be enabled by using an additional Aerostar platform as a communication relay.

Engine

The highly reliable Zanzottrra 498i engine features electronic fuel injection to compensate for altitude and temperature variations, enabling it to run at top power for long periods. This engine provides the Aerostar with 38 Hp enabling high payload weight & electric power consumption.