



CGT45-SLT

The CGT45-SLT is a 4,65 m wingspan T-Tail UAV. It uses electric powered motors for takeoff and landing and does not require a runway or catapult. It is a composite airframe with 4 kg payload capacity, powered by a petrol engine. The low fuel consumption enables a safe endurance of 6 hours.

The CGT45-SLT can takeoff from a table and land on a 5x5 m surface with high accuracy.

The UAV has a 50 kg MTOW (including payload). It can be operated by just two people. Using A-techSYN's AvionicsMini Flight Control System, flight missions are carried out fully autonomous!

- ▶ Fully autonomous
- ▶ Vertical takeoff/landing
- ▶ 6 hours endurance
- ▶ 4 kg payload
- ▶ +18.000 ft. max. altitude
- ▶ EFI engine
- ▶ 43 knots cruise speed
- ▶ 58 knots maximum speed
- ▶ 50 kg MTOW



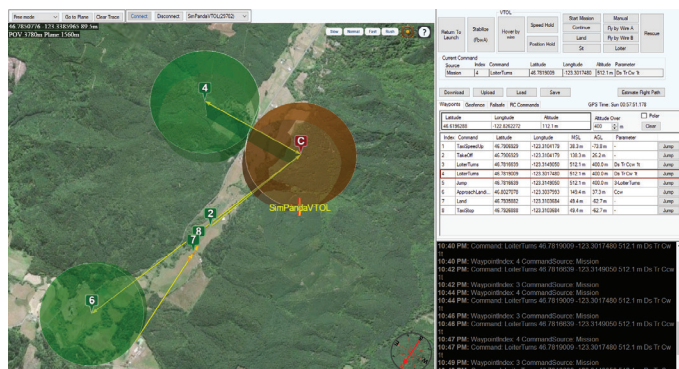
The CGT45-SLT uses 3 separate communication systems for datalink, videolink, and FPV. The systems are operating at different frequencies to increase redundancy but may be combined if requested. The videolink uses IP communication and 128 bit SSL encryption in order to secure the data transferred. Video and data may be broadcasted if desired.

CGT45-SLT comes with 200W, 350W or 500W alternator build in. The alternator produces sufficient energy for almost all applications of this size. It also has a backup battery that ensures a safe flight for sixty minutes in case of an alternator failure.



AvionicsMini

The UAV uses AvionicsMini Flight Control System which is a double redundant flight controller that is a product of the latest state of art technology and has several safety features build in. The AvionicsMini packs the power management, flight control, and suitable connector interfaces for all necessary avionic components in a single unit. All servos, EFI module, communication links, GPS antennas, pitot tubes etc. are connected to this single unit making maintenance and failure detection easier. AvionicsMini is 100% compatible with ATSN GCS and can be customized to meet customer specific requirements.



ATSN Ground Control Station

CGT45-SLT		Performance Specifications		Other Specifications	
Material	Composite	Endurance	6 hours	Flight Controller	AvionicsMini
Takeoff/Landing	Vertical (SLT)	C2 Range	20 km / 50 km / 120 km	Redundancy	Double Redundant
Wingspan	4.65 m	Max. Altitude	18.000 feet MSL	Autonomy	Full Autonomous (Takeoff - Mission - Landing)
MTOW	50 kg	Max. Speed	58 knots	Fuel Tank	9 lt / 6 kg
Payload	4 kg	Stall Speed	33 knots	R/C Control	Available

