



AVIATION DEFENCE TECHNOLOGIES

TETHERED DRONES

TUAV - R02

ADT Tethered UAV (TUAV) is drone system that lifts payloads, such as cameras or radios/antennas up to 150 m. with 400+ hr. endurance. Just by lifting up an antenna, the TUAV system can extend ground/boat radio line of site upto 40+ km.

Designed for harsh conditions, ADT TUAV supports boarder security, stationary operations, small tactical units, and it dismounts in all terrain. With an 8 lb payload capacity, the TUAS can lift multiple payloads including EO/IR cameras and a radio for data back haul or data transmission extension antennas and cables.

Main Features

Stabilized, vehicle-agnostic-tethered UAV: Deploy from manned or unmanned platforms (boats/vehicles).
Intelligently follows the host vehicle at speeds up to 60 km/h
Deploy/recover in under 2 minutes

24/7 Endurance: operate as long as needed for without landing to change batteries

Automation: automated take-off, flight and following, and landing

User interface: simple, easy, 1-screen interface for UAV control

Installation: Vehicle agnostic; non-permanent installation

Speed/altitude: 25+ kts (46+ kmh), at up to 150 m above ground level

Secure Ethernet command/control through tether prevents jamming/hacking

Technical Description

Payload: 10 kg (SIGINT, DF, EO/IR and Comm relay payloads)

Altitude: Operational 100m Max 150m

Small Footprint: Three Pelican cases

UAV Case: 90 x 90 x 40 cm

Tether Management System (TMS): 80 x 50 x 40 cm

Embedded Ground Power Unit (GPU):

Power: 100-240 VAC, 4000W (Generator, inverter, etc)

Reduced operators: Payload operator flies UAV.

Simple GUI and minimal operator input: Enable, Takeoff, Land, & Change Altitude.

Payloads

Modular Payload Capabilities: HFI, EO/IR/LD/LR, DF, SIGINT, & jamming capabilities.

SIGINT: Provides 24 hr overwatch with DF capabilities

Datalink : Fiber Ethernet 1 gbps or Secure WiFi

Use Cases

- Perimeter / border security
- Emergency portable cell phone tower
- Port/stadium security
- Traffic monitoring
- Air quality monitoring
- Radio range extension of unmanned boats and ground vehicles
- Telecommunications
- Long endurance environmental assessments & surveys
- Soldier/ convoy over-watch
- Increased battlefield communications and situational awareness



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