DELAIR

Stealth & Rugged.

REAL-TIME TRACKING FOR PRECISE INTELLIGENCE,
SURVEILLANCE AND RECONNAISSANCE OF CRITICAL AREAS

DT26 E Tactical

THE LONG RANGE TACTICAL UAV - SECURE SENSITIVE AREAS OVER LARGE DISTANCES

Key Applications

- Intelligence, Surveillance, Target Acquisition & Reconnaissance (ISTAR)
- Patrol and Convoy Escorting
- Target Acquisition and Damage Assesment
- Discreet Surveillance Missions in Sensitive Areas
- Border Security

Security & Defense

170
Up to 170 min endurance

50
Up to 50 km Communication range (750 m AGL)

1800m
EO human detection distance with HD720p

ADS-B
transponder compatible

Key Differentiators

High reliability and robust architecture:
- GNSS redundancy
- Independent and redundant flight termination system
- In-house developed autopilot with advanced safety functions.

Advanced automatic fail safe modes, with emergency parachute. Flight termination system developed following ED12-C/DO178-C DAL D aviation standard. Safety analysis conducted according to recognized aerospace guidelines ARP4754 and ARP4761.

Stealth & mobile:
the DT26E is silent (undetectable by night) and can be deployed in the field within minutes by a single operator.

ADS-B transponder compatible

UAV specifications

Endurance[1]:
Up to 170 minutes

Weight (payload included):
16 kg

Wingspan / Length:
3.3 m / 1.6 m (10.8 ft / 5.2 ft)

Material:
Composite (fiberglass, carbon, kevlar), EPP foam

Deployment time:
8 min

Take-off / Landing:
Catapult / Belly (all terrain)

Cruise speed:
57 km/h (31 mph)

Very low cruise acoustic signature:
< 80 dBA (acoustic pressure converted at a distance of 1m)

ITAR FREE

Communication range:
Up to 50 km / 31 miles (live video)

Communication link:
C-band (L-band, S-band also available on request)
Encryption AES256
Second link available for redundancy including mobile connectivity via 3G network (4G-ready) for unlimited range (within network coverage).

Detection / Recognition / Identification:
EO Human: 1800 m / 1250 m / 1000 m EO
Vehicule: 8500 m / 4500 m /3600 m IR
Human: 1000 m / 500 m / 300 m
IR Vehicule: 1800 m / 1000 m / 500 m

OPERATING CONDITIONS:

Weather :
11 m/s wind in flight & 8 m/s on ground for take-off, light rain, -15 to 50°C (at sea level)

Take-off & Landing altitude / ceiling:
0 to 2300 m ASL @ 0° - Ceiling up to 3000 m

Landing space:
Typically 15 m x 50 m (50 ft x 165 ft)

Sensors

Gyrostabilized EO/IR video HD camera

Pan - Tilt / Angular resolution:
Infinite range / 25 µRad

EO Specifications:
Resolution: HD 1280 x 720 pixels
Zoom: x30 optical / FOV: 2.2 to 62.9°

LWIR Specifications:
Zoom: Digital (continuous) / FOV: 17.7°
Resolution: 640 x 480 (25Hz)
Wavelength: 8 to 14 µm
Tracking: Videotracking, geotracking, «click & track» feature

Advanced image stabilization

Onboard image enhancement (contrast, shutter, gain)

Multiple moving objects detection

GCS software

FLIGHT DECK PRO

The most advanced and reliable flight control and planning software

Plan :
Simulate your flight with video simulation. Optimized feature for corridor mapping missions.
Fly:
Get real time telemetry transmission, control your flight parameters and payload, get real time video transmission.
Analyze:
Recover your flight meta data, logs and georeferenced video (EO and IR) recording for analysis

Safety systems

Dual link Automatic Dependent Surveillance - Broadcast (ADS-B) UAT transceiver
Detects commercial aircraft threats on 1090MHz and 978MHz within a 100 statute mile radius in real time.
Transmits ADS-B on 978MHz (UAT) 20W nominal

Advanced automatic fail safe modes, with emergency parachute. Flight termination system developped following ED12-C/DO178-C DAL D aviation standard. Safety analysis conducted according to recognized aerospace guidelines ARP4754 and ARP4761.

Geocaging (fully configurable ceiling protection, geofencing, forbidden zone protection)
Real-time video navigation back-up (looking down camera)
Position and anti-collision strobe lights

Stealth & mobile: *the DT26E tactical is silent (undetectable by night), has no radar signature and can be deployed in the field within minutes by a single operator.*

1 *Actual results may vary depending on UAV configuration, battery age and condition, and operational, environmental and climate conditions.*

DELAIR www.delair.aero
FRANCE: Toulouse - Headquarters | USA: Los Angeles | ASIA PACIFIC: Singapore