DELAIR
AERIAL INTELLIGENCE

2023 September

Long Endurance ISR Missions

Equipped with a sophisticated and highly powerful technology **surveillance capabilities**, our drones have the capabilities to gather high quality data to support a range of defence activities such as border and maritime surveillance, ISR missions, and artillery fire support system.

DT-26 E

DELAIR
UX11

A
Professional Drone for Mapping and Surveying

Simple. Connected. Intelligent.

DELAIR

Tactical Drone Solutions

UX 11

Perfect for real time mapping at day and night

Lightweight and hand-launched (**1.4 kg**)

80 min endurance

Discreet and safe

BTOL landing

DELAIR

UX 11

Industrial-grade RGB camera sensor built-in

Sensor type	Global shutter, distortion free
Image resolution	21.4 Mpix
Dynamic range	70 dB
HFOV / VFOV	38° /32°
In-flight sensor configuration	Auto or manual (brightness)
In-flight picture transmission	Real-time histogram plot & photo review with quality indicators

Ground sensor to assist with precision landings

Also available with a 5-band multispectral camera, the MicaSense RedEdge-MX

Also available with a dual sensor RGB + IR

*cm GSD at 122 (400ft) altitude
** Bird Take Off and Lauch

Tactical Drone Solutions

DT-26 E

Perfect for any daily inspection & security mission

16kg flexible payload options utilizing industry leading imaging sensors

Long endurance (Up to **3h**)

Communication range (Up to **50km**)

Highly discrete

Combat-proven

ISR Capacities

DELAIR

DT26E Tactical

SPECIFICATIONS

Key Features

- Silent (undetectable) and no radar signature
- **100% ITAR free**
- Capacity to host several swappable sensors : Gimbal, LiDAR, RGB, COMINT…
- Open Payload capacity
- Parachute for safety landing
- Heavy-duty day & night daily flight operations

Operations

- **< 20 minutes setup**
- Rugged GCS
- All terrain bumper and skid
- Launch : by catapult (all terrain)
- Fully electric

Flight Performances

- Cruise speed : **57 km/h** (31 kts)
- Wind resistance : 50 km/h (27 kts)
- Endurance : **up to 170 min**
- Communication range : up to 50 km (C2 and data) – AES 256
- Flight altitude Ceiling : up to 3 000 m ASL
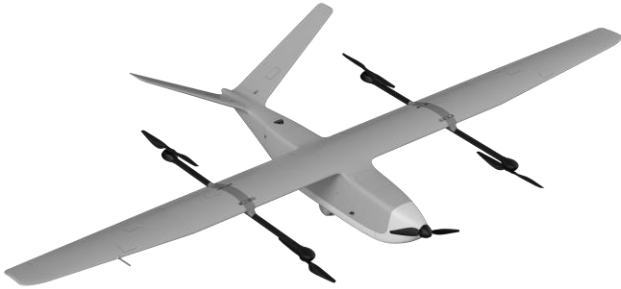- Operational temperatures -15°C to +50°C

Dimensions

- Wingspan : **3,3 m**
- Length : 1.6 m
- Mass : **16 kg**

Productivity

- Fully autonomous
- ADS-B ready
- GNSS redundancy
- Independent and redundant FTS

DELAIR

Tactical Drone Solutions

DT-46

Modular design with VTOL capacity

Ultra long endurance (Up to **7h30**)

Ultra long range (Up to **100**km)

Multi mission and multi sensor (dual payload capacity)

2 people quick deployment

ISR Capacities

DELAIR

DT-46 Fixed-Wing
For long endurance ISR Missions

7H30 Endurance

1,3M³ Packaging

80m x 20m Take-off and Landing (Fully Automatic)

5Kg Multi Sensors (Dual payload capacity)

<15' Deployment time (2 persons)

60KM/H Cruise Speed

20Kg Weight (payload included)

100KM Communication Range (AES-256 encryption)

DT-46 VTOL
Take-off and Land everywhere

3H50 Endurance

1,3M³ Packaging

5Kg Multi Sensors
(Dual payload capacity)

20M² Take-off and Landing
(Fully Automatic)

<15' Deployment time
(2 persons)

60KM/H Cruise Speed

25Kg Weight
(payload included)

100KM Communication Range
(AES-256 encryption)

Maximum of Flexibility

DT-46 VTOL
Take-off and Land everywhere

3H50 Endurance
1,3M³ Packaging
20M² Take-off and Landing (Fully Automatic)
5Kg Multi Sensors (Dual payload capacity)
<15' Deployment time (2 persons)
25Kg Weight (payload included)
60KM/H Cruise Speed
100KM Communication Range (AES-256 encryption)

DT-46 Fixed-Wing
For long endurance ISR Missions

7H30 Endurance
1,3M³ Packaging
80m x 20m Take-off and Landing (Fully Automatic)
5Kg Multi Sensors (Dual payload capacity)
<15' Deployment time (2 persons)
20Kg Weight (payload included)
60KM/H Cruise Speed
100KM Communication Range (AES-256 encryption)

DT-46 flexibility gives you the power to change your setup according mission

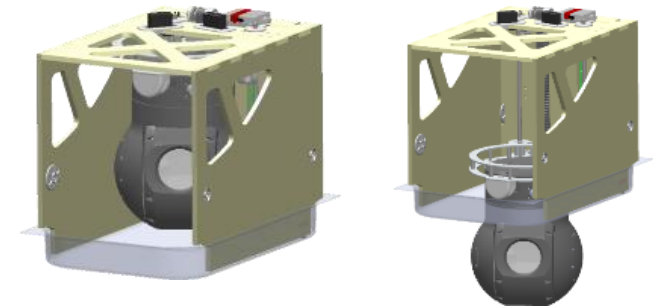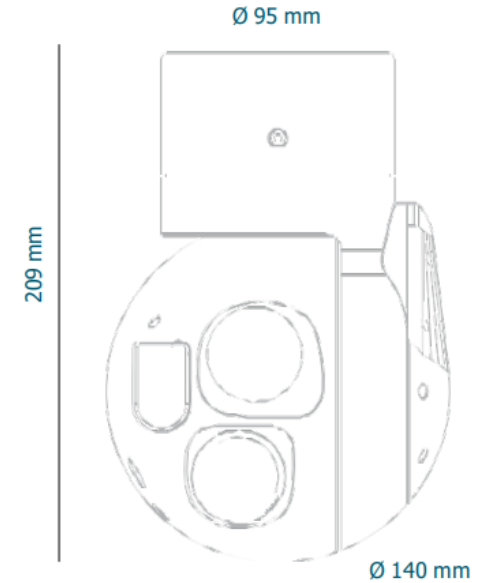**1,3 m³** volume
65 kg weight

DELAIR

Payloads

Gimbal MERIO XL14 IR

- Gyro stabilized EO/LWIR video camera
  - ✓ **E/O** camera **x30 Optical Zoom**
  - ✓ **LWIR** camera **Digital Zoom**
- Embedded video processing
- 3 axes stabilization
- Precise Geolocalisation
- Mobile object tracking
- Laser available in option

Ø 95 mm

209 mm

Ø 140 mm

DELAIR

From Detection to Identification

EO ——— 🚚
Detection : 20km
Recognition : 9,5km
Identification : 4,3km

IR ——— 🚚
Detection : 2,7km
Recognition : 1,1km
Identification : 0,55km

EO ——— 🧑
Detection : 10km
Recognition : 3,1km
Identification : 1,5km

IR ——— 🧑
Detection : 1,5km
Recognition : 0,5km
Identification : 0,25km

DELAIR

Ground Control Station

Communication

Military Link Features

- Military/"Security forces" frequencies

- Configurable Frequency range : **4.4 – 5 GHz** (telecom authorization required by customer) – **3 Mbps**

- High radio performance for extended communication range

- **Encryption : AES 256** (Military grade)

- Interference Avoidance Scheme application

- Second link available for redundancy including mobile connectivity via 3G network for unlimited range (within network coverage).

- DT-26 E 50 km – DT-46 **100km**

DELAIR
AERIAL INTELLIGENCE

Software – DFD Pro

Automatic take-off and landing
Simply place the UAV and give the command from the safe place.
No human factor, fully automatic.

Automatic flight
Plan the mission beforehand and execute it perfectly, even if signal lost.

Anti-jamming technology
Allows to operate UAV despite datalink or navigation system jamming or other attempts of interference.

Pilot Interface
Delair has developed an easy an intuitive software which supports pilot of the mission:
- Flight path generation and updating
- Check List
- UAV parameters monitoring
- Real time geolocalisation
- Full payload control

Analyst Interface
DFP Pro software provides set of tools intelligence analysist
- Automatic tracking
- Measurement tools
- Export video extract

DELAIR
AERIAL INTELLIGENCE

Support

Support

Training

Our expert team (pilots instructors and maintenance technicians) will provide full operating training and hands-on advice to Delair drones, for their application (ISR mission) as well as maintenance (up to level 2).

We conduct these trainings at the Delair Training Center in Toulouse (France) or on-site at the client's premises.

Life-cycle support

Our experts in life-cycle support will become your primary contacts, guaranteeing support services tailored to your exact needs. Delair deploys all the resources needed and offers a wide range of services to guarantee the performance of your systems and operators.

Our high-quality support services ensure that your systems are always available on a timely basis, anywhere in the world.

Repairs and Spares

As soon as they are contacted, our experts work with you to define the best solution, whether parts repair or replacement, and keep your system up and running.

DELAIR
AERIAL INTELLIGENCE

To Conclude

Drones designed for **Surveillance** Missions including the modularity of payloads

Backed by an entire **team of experts** all under the same roof

Support a full **end-to-end** drone solution.

DELAIR
AERIAL INTELLIGENCE

Contact us

███████████@delair.aero

Follow us