STABLE & EASY-TO-USE
Large-area mapping with centimeter-level precision and optional PPK for survey-grade results

UX11
PROFESSIONAL SMALL UAV, SURVEY AND MAP WITH EASE

INDUSTRIES
- Surveying & Mapping
- Mines & Quarries
- Power & Utilities
- Security & Defense
- Construction
- Oil & Gas
- Transportation
- Agriculture & Forestry

KEY APPLICATIONS
- Mapping & GIS
- Surveying
- Construction
- Environmental and Conservation
- Surface Mining
- Aggregates
- Public Land Management
- Landfill Management

1.7 cm GSD at 122m (400ft) altitude
3G/4G Connectivity
1 GNSS accuracy down to 1 cm
59 Minutes Endurance
KEY DIFFERENTIATORS

Map large areas faster - One pilot can map 9.6 km² (3.7 mi²) in an 8-hour day with 1.7 cm GSD at 122 m flight height. Industrial camera with optional PPK activation for survey-grade results. No need to sacrifice resolution for productivity when you can have both.

Precise "birdlike" takeoff and landing (BTOL) - high-angle (30 degrees) takeoffs and deep stall landings for use in confined areas, low-speed landing using distance-measurement technology.

BVLOS-ready communications - Dual-communication systems including WiFi radio link and mobile connectivity via 3G network (4G-ready) for unlimited range.

Delair Flight Deck - easy-to-use Android™ mission planning and monitoring app - pre-flight checklist, no-fly zones, modern user interface, in-flight data review.

UAV SPECIFICATIONS

Endurance1,2 .......................................................... Up to 59 minutes
Weight (payload included) ........................................ 1.5 kg (3.3 lbs)
Wingspan .......................................................... 1.1 m (43 in)
Deployment time1 .................................................. 5 min
Cruise speed1,2 .................................................... 54 km/h (34 mph)
Take-off / Landing ........................................... Hand-launched (angle: 30 degrees) / Belly landing (angle: 30 degrees)
Flying range1 .......................................................... 53 km (33 mi)
Surface area covered1
Nominal (60% side overlap): 1.2 km² (300 ac) with 1.7 cm GSD at 122 m (400 ft) AGL.
Maximum (60% side overlap): 6.5 km² (1600 ac) with 13.9 cm GSD at 1,000 m (3,280 ft) AGL.

Communication range
3G/4G ................................................................ Unlimited (within network coverage)
Delair Link (2.4 GHz radio)1,3 .................................
5 km in FCC configuration (and up to 10 km).
3 km in CE configuration (and up to 5 km).

Operating conditions
Weather ............................................................. 45 km/h (28 mph) wind resistance, moderate rain
Maximum altitude (MSL)1 .................................. Takeoff at 5,000 m (16,400 ft)
Flight at 6,000 m (19,700 ft)
Landing accuracy1 .................................................. 5 m (16 ft)
Temperature1 ........................................................ -20 to 45 C (-4 to 110 F)

GNSS .................................................................. PPK optional (software activated), L1/L2, GPS+GLONASS

SENSOR

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 and photo review with quality indicators
High quality raw output

TRANSPORT CASE

Lightweight rugged backpack, airplane checkable
14 kg with all accessories, 79x43x35 cm (31x17x14 in)

DELAIR AUTHORIZED DISTRIBUTION PARTNER

DELAIR AERIAL INTELLIGENCE PLATFORM

The cloud-based platform helps you manage, process, view, analyze and collaborate around aerial data. Get business insights from aerial data in a simple, secure and scalable way.

Analytics available: ortho image & DSM (Digital Surface Model), Contour lines, Cross sections, Elevation profiles, Stockpile Volume Calculation, Vegetation Encroachment, Cut and Fill, and many more.

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Use Delair After Flight software (included) for PPK processing and to prepare Raw data for any photogrammetry software.

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