

STABLE & EASY-TO-USE

Large-area mapping with centimeter-level precision and optional PPK for survey-grade results



2.1

km² (520 ac)
@1.7 cm GSD

3G/4G

Connectivity

1

GSD down
to 1 cm

59

Min
Endurance

Professional line

UX11

PROFESSIONAL SMALL UAV,
SURVEY AND MAP WITHEASE

INDUSTRIES



Geospatial



Mines &
Quarries



Agriculture
& Forestry



Emergency

KEY APPLICATIONS

Mapping & GIS

Surveying

Construction

Environmental and Conservation

Surface Mining

Aggregates

Public Land Management

Landfill Management

KEY DIFFERENTIATORS

Map large areas faster - cover 2,1 km² (520 acres) with 1.7 cm GSD at 122 m flight height. Industrial camera with optional PPK activation for survey-grade results down to 1 cm precision.

BVLOS-ready communications - mobile connectivity via 3G network (4G-ready) for unlimited range or optional radio link.

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

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

Endurance ¹	Up to 59 minutes
Weight (payload included)	1.4 kg (3.1 lbs)
Wingspan	1.1 m (43 in)
Deployment time ¹	5 min
Cruise speed	54 km/h (34 mph)
Take-off / Landing	Hand-launched (angle: 30 degrees) / Belly landing (angle: 30 degrees)
Flying range ¹	53 km (33 mi)
Maximum surface area covered ¹	
	1.0 km ² (250 ac) mapped with 1 cm GSD at 75 m (246 ft) AGL
	2.1 km ² (520 ac) mapped with 1.7 cm GSD at 122 m (400 ft) AGL
	8.4 km ² (2,075 ac) mapped with 7 cm GSD at 500 m (1,640 ft) AGL

Communication range

3G/4G	Unlimited (within network coverage)
Delair Link (2.4 GHz radio) ¹	FCC up to 10 km (6.2 mi), CE up to 5 km (3.1 mi)

Operating conditions

Weather	45 km/h (28 mph) wind resistance, moderate rain
Maximum tested altitude (MSL) ¹	Takeoff at 4,600 m (15,100 ft) Flight at 6,000 m (19,700 ft)
Landing accuracy ¹	5 m (16 ft)
Temperature ¹	-20 to 45 C (-4 to 110 F)

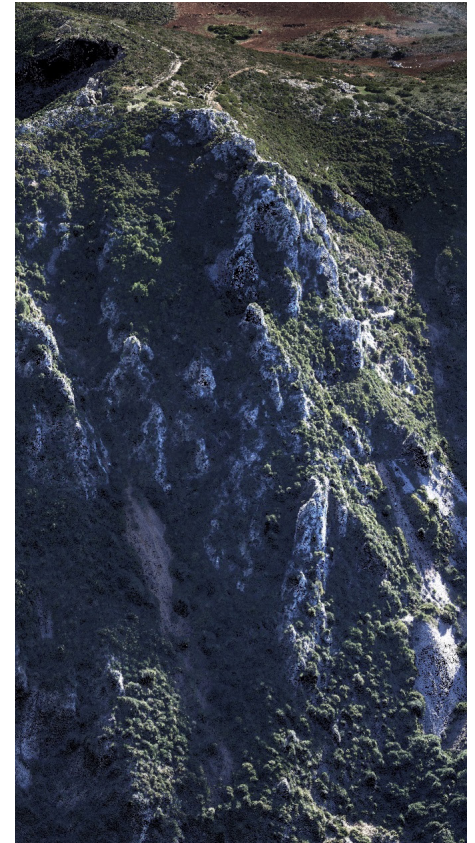
GNSS..... PPK optional (software activated), L1/L2, GPS+GLONASS+SBAS

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) Real-time histogram plot and
In-flight picture transmission and QAQC	photo review

High quality raw output



DELIVERABLES

USE DELAIR AFTER FLIGHT SOFTWARE (INCLUDED) FOR PPK PROCESSING AND TO PREPARE RAW DATA FOR ANY PHOTOGRAMMETRY SOFTWARE

ANALYTICS

Ortho Image & DSM (Digital Surface Model), Contour Lines, Cross Sections, Elevation Profiles, Stockpile Volume Calculation, Vegetation Encroachment, Anomaly Detection, and many more.

ANALYTICS COMPATIBLE WITH

ESRI ArcGIS, QGIS, Surpac, GlobalMapper, AutoCAD, PLS-CADD and many more.

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

June 2018 version B.

Specifications subject to change without notice to improve reliability, function or design or otherwise.

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