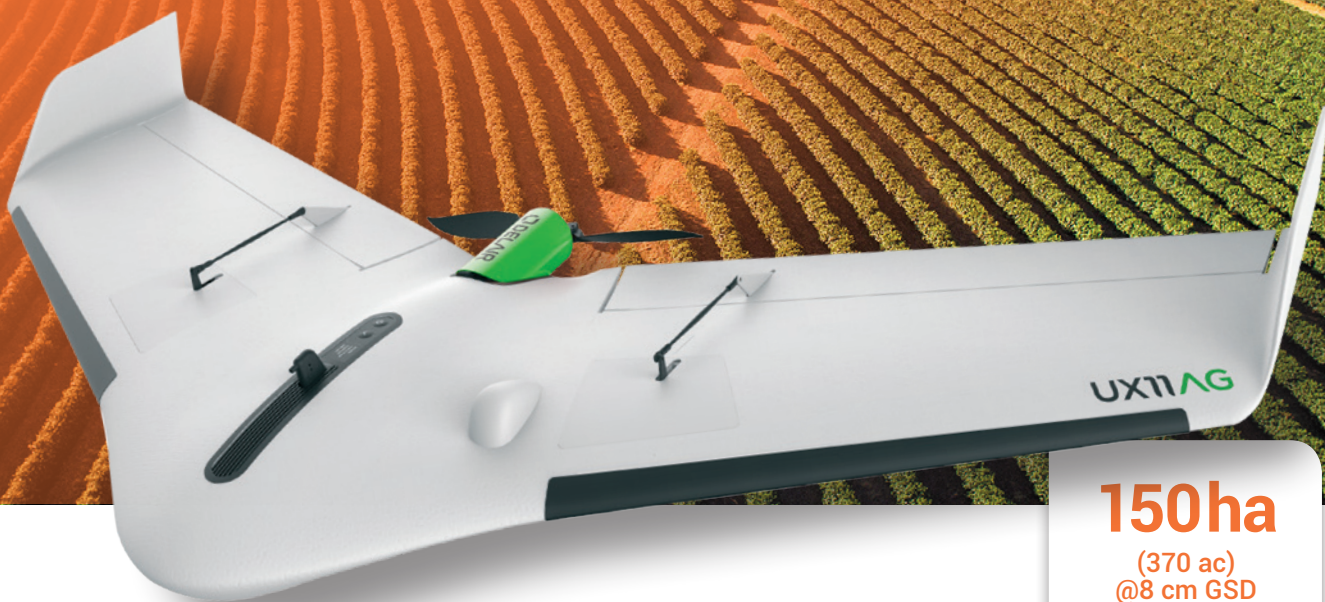


# PRODUCTIVE & PLANT-FOCUSED

The smartest plant mapping drone ever



**150ha**

(370 ac)  
@8 cm GSD

**PPK**

as you go

**5**

GSD down  
to 5 cm

**3G/4G**

# UX11 AG

PROFESSIONAL SMALL UAV,  
MAP BEYOND THE VISIBLE WITH EASE

## INDUSTRIES



Agriculture



Forestry



Power &  
Utilities



Environment &  
Conservation

## KEY APPLICATIONS

All applications requiring temporal analysis  
or precise geolocation

Mapping & GIS

Field trials

Field inventory

Large Scale Farms and Plantations Scouting

Precision Agriculture

Forest inventory and management

Traceability for sustainability

Environmental and Conservation

Due diligence of farms

# KEY DIFFERENTIATORS

**Designed for best grade spectral data quality** and precisely geolocalized plant data. Fully integrated true multispectral camera for bird view, biomass and chlorophyll insights in one flight. With optional PPK activation for surveygrade results.

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

**Bird Take Off and Landing - BTOL** - precise takeoffs and landings - high-angle (30 degrees) for restricted areas, low-speed landing using distance measurement technology.

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

# UAV SPECIFICATIONS

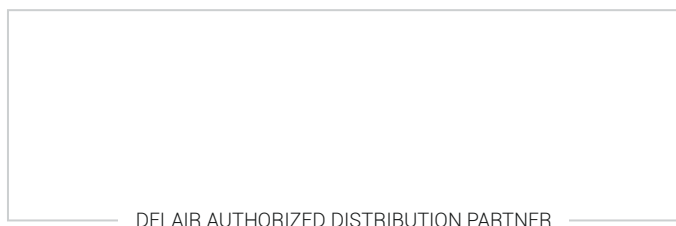
Endurance <sup>1</sup>	Up to 52 minutes
Weight (payload included)	1.6 kg (3.52 lbs)
Wingspan	1.1 m (43 in)
Deployment time <sup>1</sup>	5 min
Cruise speed	54 km/h (33.5 mph)
Take-off / Landing	Hand-launched (angle: 30 degrees) / Belly landing (angle: 30 degrees)
Flying range <sup>1</sup>	47 km (29 mi)
Maximum surface area covered <sup>1</sup> (70% overlap, results may vary depending on conditons)	
- 90 ha (230 ac) mapped with 5 cm GSD at 75 m (246 ft) AGL	
- 150 ha (370 ac) mapped with 8 cm GSD at 122 m (400 ft) AGL	
- 600 ha (1500 ac) mapped with 34 cm GSD at 500 m (1,640 ft) AGL	
<b>Communication range</b>	
3G/4G	Unlimited (within network coverage)
Delair Link (2.4 GHz radio) <sup>1</sup>	FCC up to 10 km (6.2 mi), CE up to 5 km (3.1 mi)
<b>Operating conditions</b>	
Weather	45 km/h (28 mph) wind resistance, moderate rain
Temperature <sup>1</sup>	-20 to 45 C (-4 to 110 F)
Maximum takeoff altitude <sup>1</sup>	Takeoff at 3,600 m (11,800 ft)
Landing accuracy <sup>1</sup>	~5 m (16 ft)
<b>GNSS</b>	PPK optional (software activated), L1/L2, GPS+GLONASS



# SENSOR

## Micasense RedEdge MX sensor - fully integrated

Sensor type	Global shutter, distortion free
Narrow & calibrated spectral bands	Red, Green, Blue, Red Edge, Near Infrared
Live picture preview on ground (RGB/NDVI)	
Image acquisition rate	Automatically adjusted in flight (configurable overlap)
Width x Height	1280 x 960 pixels
Calibration panel included	



DELAIR AUTHORIZED DISTRIBUTION PARTNER

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

# DELIVERABLES

**USE DELAIR AFTER FLIGHT SOFTWARE (INCLUDED) FOR PPK PROCESSING. RAW DATA COMPATIBLE WITH ALL PHOTOGRAMMETRY SOFTWARES**

## ANALYTICS

- Orthomosaic image & DSM (Digital Surface Model),
- Scouting Maps: bird view, green biomass, chlorophyll content and others
- Plant Counting, Gap Detection, Plant Height
- Field, rows, microplots boundaries vectorization
- Management zones and sampling points and many more.

## ANALYTICS COMPATIBLE WITH

GIS softwares (ESRI ArcGIS, QGIS, ENVI, eCognition, Globalmapper and many more), MyJohnDeere and some Farm Management Information Systems / ag DST.

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

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