DELAIR™
AERIAL INTELLIGENCE

PLANT-FOCUSED & RUGGED
Relevant crop and forest metrics with an all-terrain and intuitive solution

UX5

55
km/h
high wind
resistance

6
down to 6 cm

5
narrow spectral
bands (R,G,B,
Red Edge, NIR)

5
min
deployment
time

Professional Line

UX5 AG

PROFESSIONAL UAV
SURVEY, MONITOR & INSPECT

INDUSTRIES

Agriculture
& Forestry

KEY APPLICATIONS

Crop Scouting

Precision Agriculture

Forest Characterization

Vegetation Monitoring

Water Drainage & Irrigation Systems Design

KEY DIFFERENTIATORS

Leading image acquisition quality and data accuracy thanks to Micasense RedEdge technology (5 bands, global shutter).

Field readiness and operational performance: all-weather performance, all-terrain technology, high resistance compatible with an intensive use.

Landings: less space, more accuracy - reverse thrust for precise landings in confined spaces for landing confidence every time.

Consistent and safe take-offs: catapult launches keep operator a safe distance from aircraft upon launch.

UAV SPECIFICATIONS

Endurance[1]	Up to 45 minutes
Weight (payload included)	2,5 kg
Wingspan	1 m
Material	EPP foam; carbon frame structure; composite elements
Deployment time[1]	5 min
Take-off / Landing	Catapult (angle: 20 degrees) / Belly (angle: 14 degrees)
Cruise speed	80 km/h (43 kts)
Flying range[1]	60 km

Maximum surface area covered (70% overlap)[1]

> 70 ha (173 ac) mapped with 6.1 cm GSD @ 90 m AGL
> 130 ha (321 ac) mapped with 10.2 cm GSD @ 150 m AGL
> 730 ha (1804 ac) mapped with 47.7 cm GSD @ 700 m AGL
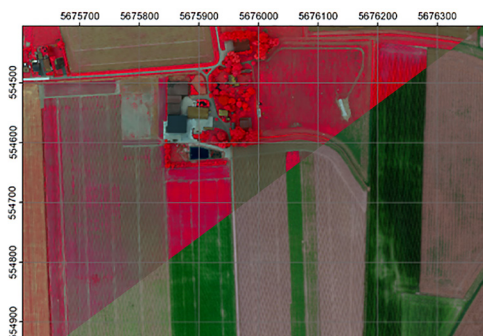
Operating conditions

Weather	55 km/h, moderate rain
Altitude[1]	Ceiling up to 5000 m
Landing accuracy	Typically: 20 m x 6 m / Recommended: 50 m x 30 m

SENSOR

MicaSense RedEdge Multispectral Camera

Narrow & calibrated spectral bands	Red, Green, Blue, Red Edge, Near Infrared
Resolution (GSD)	6.1 cm @ 90 m AGL 10.2 cm @150 m AGL70 dB
Width x Height	960 x 1 280 pixels
Image acquisition	Configurable (standard: 1 ima/sec.)
Sensor type	Global shutter, distortion free
Calibration panel included	

DELIVERABLES

RAW DATA COMPATIBLE WITH ALL PHOTOGRAMMETRY SOFTWARE.

ANALYTICS

Ortho Image & DSM (Digital Surface Model), DTM (Digital Terrain Model), Precise Scouting Maps: NDVI, NDRE, MCARI2, MSAVI2, & other Ag index map, Plant Counting, Gap Detection, Plant Height, Field Vectorization, Vegetation Height, Plant Density, and many more.

ANALYTICS COMPATIBLE WITH

ESRI ArcGIS, QGIS, ENVI, eCognition.

DELAIR AUTHORIZED DISTRIBUTION PARTNER

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

October 2017 version A.

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