



GET THE CROP STATUS RIGHT WITH AN ALL-TERRAIN AND INTUITIVE SOLUTION

55

KM/H
HIGH WIND
RESISTANCE

5

NARROW SPECTRAL
BANDS (RED, GREEN,
BLUE, RED EDGE,
NIR)

6

GSD DOWN TO
6 CM

5

MIN
DEPLOYMENT
TIME



Professional line

DATASHEET

UX5 AG

PROFESSIONAL UAV
SURVEY, MONITOR AND 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.

Accessible technology & intuitive workflow with Delair-Stack® data processing softwares.

UAV SPECIFICATIONS

Endurance	Up to 45 min
Weight (payload included)	2.5 kg
Wingspan	1 m
Material	EPP foam; carbon frame structure; composite elements
Deployment time	5 min
Cruise speed	80 km/h
Take-off / Landing	Catapult (angle: 20 degrees) / Belly (angle: 14 degrees)
Flying range	60 km
Maximum surface area covered (70% overlap)	
.... 120 ha (297 ac) mapped with 6.1 cm GSD @ 90 m AGL	
.... 210 ha (519 ac) mapped with 10.2 cm GSD @ 150 m AGL	
.... 1000 ha (2471 ac) mapped with 51.1 cm GSD @ 750 m AGL	
Operating conditions	
Wind resistance	55 km/h, moderate rain
Altitude	Ceiling up to 5000 m
Landing space	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 AGL
Width x Height	960 x 1 280 pixels
Image acquisition	Configurable (standard: 1 ima/sec.)
Sensor type	Global shutter, distortion free
<i>Calibration panel included</i>	



DELIVERABLES

Raw data compatible with

Delair-Stack® and photogrammetry software.

Analytics available on Delair-Stack® with on-demand format

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

Analytics compatible with

Delair-Stack®
ESRI ArcGIS, QGIS, ENVI, eCognition.