



GET THE BIG PICTURE - UP TO 400 KM PER DAY OF HIGH DEFINITION IMAGERY

100

UP TO 100 KM
OR 20 KM²
PER FLIGHT

1.1

GSD DOWN
TO 1.1 CM

21.4

MPIX
PROFESSIONAL
SENSOR

2

KG WEIGHT
VLOS & BVLOS
CERTIFIED



Expert line

DATASHEET

DT18 HD

LONG-RANGE MINI UAV
SURVEY, MONITOR & INSPECT

INDUSTRIES



Geospatial



Power
& Utilities



Mines &
Quarries



Oil & Gas



Railways
& Roads



Emergency

KEY APPLICATIONS



Large Scale Monitoring



Corridor Mapping



Topographic Surveys



Linear Infrastructure
Inspection



Vegetation Monitoring



Anomaly Detection

KEY DIFFERENTIATORS

High data quality & expert grade technology: 100 km range in 2 kg of condensed technology - real-time video, real-time images, professional camera, long range telecom.

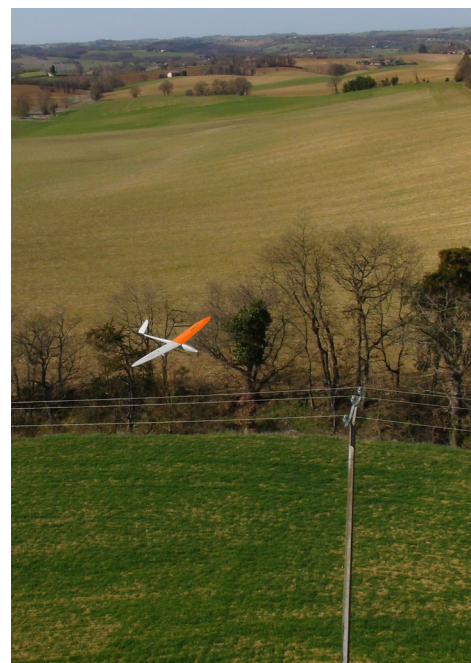
Quick return on investment (ROI): covers more distance than any competitor of that size. Drastically reduces acquisition costs for long distance infrastructures and large areas: 400 km or 8000 ha per day.

Safe technology: first UAV certified in the world for daily BVLOS operations (since 2012). Design complying with aeronautical certification methods. Advanced safety features (real-time front video, autopilot fail-safe mechanisms, geofencing).

Field readiness: hand-launched, automatic take-off, field proven, with real-time status of the quality of the acquisition; more than 300 000 km of flight experience and 5 min of deployment time.

UAV SPECIFICATIONS

Endurance	Up to 120 min
Weight (payload included)	2 kg
Wingspan / Length	1.8 m / 1.2 m
Material	Composite (fiberglass, carbon, kevlar)
Deployment time	5 min
Take-off / Landing	Hand launched or catapult / Belly
Cruise speed	61 km/h (33 kts)
Maximum surface area covered (60% overlap)	
.... 1.8 km ² mapped with 1.1 cm GSD @ 80 m AGL	
.... 3.6 km ² mapped with 2.1 cm GSD @ 150 m AGL	
.... 19.5 km ² mapped with 9.7 cm GSD @ 700 m AGL	
Communication range	Up to 20 km / secured link / 3G option
Operating conditions	
Wind resistance	50 km/h, moderate rain
Take-off & landing altitude / ceiling ...	0 to 2000 m ASL / 2500 m ASL
Landing space	Typically: 10 m x 20 m / Recommended: 20 m x 40 m



SENSOR

Industrial-grade sensor - high level of integration

Sensor type	Global shutter, distortion free
Resolution	21.4 Mpix
Dynamic range	70 dB
HFOV / VFOV	38° / 32°
In-flight sensor configuration	Auto or manual (shutter, gain, brightness)
In-flight picture transmission and QAQC	Real-time histogram plot, real-time photo stitching
High quality raw output	



DELIVERABLES

Raw data compatible with

Delair-Stack® and all photogrammetry software.

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

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

Analytics compatible with

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

