

PRODUCTIVE & HIGH-DEF

Capture up to 400km of aerial imagery per day



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

DT18 HD

LONG-RANGE UAV
SURVEY, MONITOR & INSPECT

INDUSTRIES

-  Geospatial
-  Power & Utilities
-  Mines and Quarries
-  Oil & Gas
-  Railways & Roads
-  Emergency
-  Agriculture & Forestry

KEY APPLICATIONS

- Large-Scale Monitoring
- Corridor Mapping
- Topographic Surveys
- Vegetation Monitoring
- Linear Infrastructure Inspection
- 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

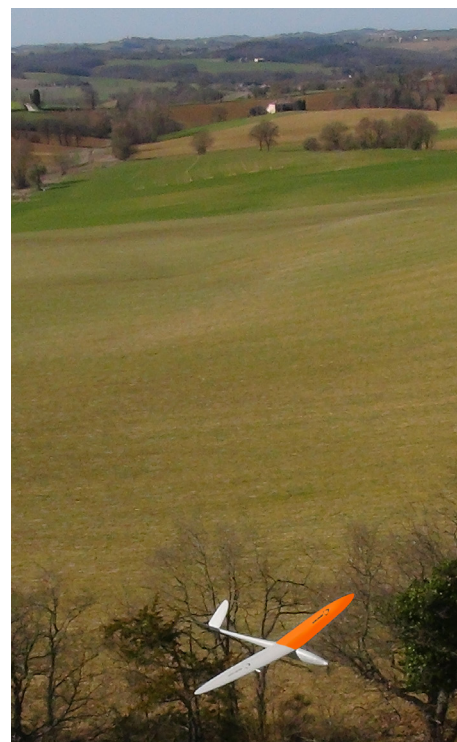
Endurance ¹	Up to 120 minutes
Weight (payload included)	2 kg
Wingspan / Length	1.8 m / 1.2 m
Material	Composite (fiberglass, carbon, kevlar)
Deployment time ¹	5 min
Take-off / Landing	Hand launched or Catapult / Belly
Cruise speed	61 km/h (33 kts)

Maximum surface area covered (60% overlap) ¹	
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 ¹	Up to 20 km / secured link / 3G option
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Operating conditions

Weather	50 km/h, moderate rain
Take-off & landing altitude / ceiling ¹	0 to 2000 m ASL / 2500 m
Landing accuracy	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
Image 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 ALL 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.

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

