

PRECISE & RUGGED

Encounter high accuracy and easy operation without GCP



Professional Line

UX5 HP

PROFESSIONAL UAV
SURVEY, MONITOR & INSPECT

1000

Pts/m² max
3D models
resolution

1

GSD down to
1cm

36

MPIX - Full frame
High resolution
camera

5

min
deployment time

INDUSTRIES



Geospatial



Mines and
Quarries



Emergency

KEY APPLICATIONS

Mapping

Topographic Surveys

Infrastructure Inspection

Vegetation Monitoring

Anomaly Detection

Research (Geology, Archaeology)

KEY DIFFERENTIATORS

Leading image acquisition quality and data accuracy thanks to high-performance Trimble GNSS receiver with PPK technology and 36 Mpix full-frame camera.

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

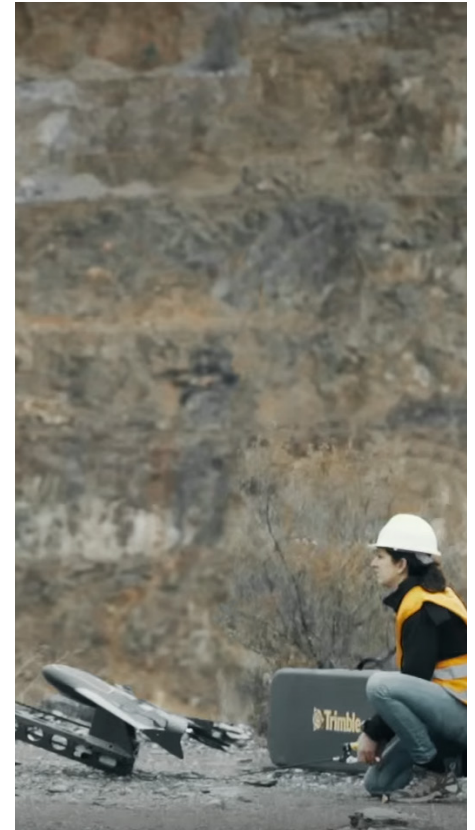
Endurance ¹	Up to 35 minutes
Weight (payload included)	2,5 kg
Wingspan	1 m
Material	EPP foam; carbon frame structure; composite elements
Deployment time ¹	5 min
Take-off / Landing	Catapult (angle: 30 degrees) / Belly (angle: 14 degrees)
Cruise speed	85 km/h (43 kts)
Flying range ¹	60 km

Maximum surface area covered (70% overlap) ¹
0.52 km ² mapped with 1 cm GSD @ 75 m AGL
1.2 km ² mapped with 2.1 cm GSD @ 150 m AGL
7.8 km ² mapped with 10.5 cm GSD @ 750 m AGL

Communication range¹ Up to 5 km / secured link

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

Resolution	36 Mpix
Features	Mirrorless full frame with customs 15, 25 or 35 mm lens GNSS receiver L1/L2 GNSS, 20 Hz (GPS, GLONASS, BeiDou, Galileo ready)

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.

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

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