 UX5 HP

PROFESSIONAL UAV
SURVEY, MONITOR AND INSPECT

HIGH PRECISION AND EASY OPERATION
WITHOUT GCPS: YOU CAN HAVE IT ALL

1000
PTS/M² MAX
3D MODELS
RESOLUTION

1
GSD DOWN
TO 1 CM

36
MPIX - FULL FRAME
HIGH RESOLUTION
CAMERA

5
MIN. SET UP
TIME

Professional line

DATASHEET

INDUSTRIES

Geospatial
Mines & Quarries
Emergency

KEY APPLICATIONS

✔ Mapping
✔ Vegetation Monitoring
✔ Topographic Surveys
✔ Anomaly Detection
✔ Infrastructure Inspection
✔ Research (Geology, Archeology)
**UX5 HP: PROFESSIONAL UAV - SURVEY, MONITOR AND INSPECT**

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### KEY DIFFERENTIATORS

**Leading image acquisition quality** and data accuracy thanks to high performance Trimble GNSS receiver with PPK GNSS technology and configurable sensor.

**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 Trimble Business Center and/or Delair-Stack® on-line platform dedicated to data-processing.

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### UAV SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endurance</td>
<td>Up to 35 min.</td>
</tr>
<tr>
<td>Weight (payload included)</td>
<td>2.9 kg</td>
</tr>
<tr>
<td>Wingspan</td>
<td>1 m</td>
</tr>
<tr>
<td>Material</td>
<td>EPP foam; carbon frame structure; composite elements</td>
</tr>
<tr>
<td>Cruise speed</td>
<td>80 km/h</td>
</tr>
<tr>
<td>Take-off / Landing</td>
<td>Catapult (angle: 30 degrees) / Belly (angle: 14 degrees)</td>
</tr>
<tr>
<td>Flying range</td>
<td>60 km</td>
</tr>
</tbody>
</table>

Maximum surface area covered (35 mm lens - 80% overlap)
- 0.6 km² mapped with 1 cm GSD @ 75 m AGL
- 1.2 km² mapped with 2.1 cm GSD @ 150 m AGL
- 6.3 km² mapped with 10.5 cm GSD @ 750 m AGL

Operating conditions
- Wind resistance: 55 km/h, moderate rain
- Altitude: Ceiling up to 5000 m
- Landing space: Typical: 20 m x 6 m / Recommended: 50 m x 30 m

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### SENSOR

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>36 Mpix</td>
</tr>
<tr>
<td>Features</td>
<td>Mirrorless full frame with customs 15, 25 or 35 mm lens GNSS receiver L1/L2 GNSS, 20 Hz (GPS, GLONASS, Beidou, Galileo ready)</td>
</tr>
</tbody>
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### PHOTOGRAMMETRY DELIVERABLES

- Analytics available on Delair-Stack®

- Outputs compatible with:
  - Delair-Stack®
  - ESRI ArcGIS, QGIS, Inpho, Erdas Imagine, RealWorks, Maptek, 3DReshaper, Surpac, Mapbox, GlobalMapper, Autodesk, Stereo-CAD, GoogleMaps, Microstation, Quick Terrain, Agisoft, ccViewer and many more.