Meet BIRDIE UAV – your complete mapping solution for achieving centimeter absolute accuracy and delivering high quality data. BIRDIE UAV works well in any condition and terrain due to its rugged design and the unique detachable VTOL module. This UAV is the only 2 in 1 drone solution on the market.

- Unlimited 4G LTE connectivity and BVLOS-ready
- Short setup: plug & play
- VTOL extension modules - upgrade to power-lifted drone
- Rugged design, secured optical sensor
- PPK/RTK L1 + L2 for high-accuracy positioning without GCP
- ADS-B transponders for safety and BVLOS flights
- Highly wind-resistant, stable flight trajectory
- Flight controller - all-in-one device with a touchscreen and dedicated flight planning & control app
- Orthophoto and DTM by Colidrone
<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th>UAV BIRDIE VTOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wingspan (cm)</td>
<td>140</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>2.5</td>
</tr>
<tr>
<td>Transport case dimensions(cm)</td>
<td>63 × 59.7 × 31.5 + bag VTOL module (120 × 40 × 12)</td>
</tr>
<tr>
<td>Detachable wings</td>
<td>yes</td>
</tr>
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<td>Detachable wings</td>
<td>yes</td>
</tr>
<tr>
<td>Batteries</td>
<td>smart Li-Ion</td>
</tr>
<tr>
<td>Cruise speed (m/s)</td>
<td>20</td>
</tr>
<tr>
<td>Max. flight time (min)</td>
<td>60</td>
</tr>
<tr>
<td>Takeoff method</td>
<td>hand launch (push backside)</td>
</tr>
<tr>
<td>Landing</td>
<td>belly landing (reverse thrust)</td>
</tr>
<tr>
<td>Radio link range (km)</td>
<td>4</td>
</tr>
<tr>
<td>Other connectivity systems</td>
<td>4G LTE unlimited in network range</td>
</tr>
<tr>
<td>PPK</td>
<td>L1 or L1/L2</td>
</tr>
<tr>
<td>Camera resolution (MPx)</td>
<td>24 / 42</td>
</tr>
<tr>
<td>Additional features</td>
<td>possibility to upgrade from fixed-wing to VTOL at any time with the extension module, camera charging during flight, ADS-B module, RTK module</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

- **7 km²** in polygon mission
- **Up to 30 km** in linear flight (two rows)

**RGB camera**
EVERYTHING IS POSSIBLE WITH MISSION MANAGER

SOFTWARE

EVERYTHING YOU NEED FOR YOUR NEXT MAPPING PROJECT

BIRDIE SET

ALL-IN-ONE FLIGHT CONTROLLER
+ app

3x INTELLIGENT BATTERY
with protection systems

onboard PPK/RTK L1 + L2 receiver

VTOL extension module

GROUND GNSS receiver

REMOTE DIAGNOSTIC

WARRANTY

TECHNICAL SUPPORT

optical SENSOR of choice

4G LTE cellular connectivity

PHOTOGRAMMETRIC SOFTWARE

ADS-B transponders

WARRANTY

TECHNICAL SUPPORT

PRE-FLIGHT CHECKLIST

MULTI MISSION PLANNING

TERRAIN FOLLOWING

Use Mission Manager Lite to plan your flight and conduct it fully autonomously. The app, supporting both fixed-wing and VTOL flights, combines multiple advanced features and clear interface. It's a perfect tool for users at any level of proficiency.

- Supporting flights on slope terrain with fixed GSD
- Linear and polygon mission planning
- Advanced drone battery monitoring during a flight
STREAMLINED WORKFLOW

- Flight planning
- UTM – flights in urban areas
- Automated weather and terrain analysis
- Cellular connectivity - 2 operators in one mission, remote control of UAV flights
- ADS-B for the highest level of safety
- Possibility of semi-manual control

CREATE

- Georeferencing
- Postprocessing with the specialized software
- High accuracy

OUR CLIENTS TESTIMONIALS

“…In our experience BIRDIE is definitely the most compact, easy-to-operate yet sophisticated fixed-wing drone that we have ever used. The easiness of use, high-end technology and intuitiveness aspect are the main features that we value.”

Ray Ozma
Terra Drone Indonesia

“During one flight we are able to obtain highly precise data from the area of interest. In our work BIRDIE is used also for measurement of gangue storage and mining region analysis. In general - it is an easy to use, efficient, high precision tool!”

Michał Szadziul
LW „Bogdanka” S.A. Polish mine
Cost-effective UAV alternative to LiDAR inspection. Our innovative photogrammetry-based algorithm and BIRDIE’s fixed-wing efficiency produce some of the most accurate results on the market!

- Reduce cost even to 50%!
- Up to 12 km of transmission lines mapped in one flight and up to 1000 km per month - using single UAV unit
- Orthophoto with the resolution up to 1 cm
- Power line surroundings: vegetation, distance to the ground, unauthorized construction works
- Digital Surface Model
- 3D reconstructions
- Point Cloud

Flight time: 60 min
Area: 200 ha
Flight altitude: 150 m
GSD: 2 cm
INTERESTED?

CONTACT US TODAY!

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