

FLY TECH
UAV



UAV BIRDIE

The background is a solid blue color. In the upper right, there are several thin, dark blue lines. One line is long and slightly curved, extending from the top edge towards the center. Below it, two shorter, parallel lines are positioned. To the right of these lines, there is a white, angular shape that resembles a stylized letter 'C' or a corner of a structure. The top inner edge of this shape is filled with a pattern of diagonal hatching lines.

ONE PLATFORM,
MULTIPLE APPLICATIONS:

SURVEYING

CONSTRUCTION

FORESTRY

AGRICULTURE

ENVIRONMENT

POWER ENGINEERING



BIRDIE - YOUR TAILOR-MADE UAV

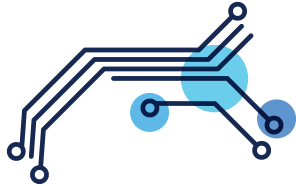
BIRDIE UAV is the complete mapping solution, made for achieving survey-grade accuracy and delivering high-quality data. Choose between high-quality sensors: 24-Mpix APS-C or 42-Mpix full-frame camera and be sure to acquire detailed imaging.

The use PPK will save your time and field works, as you won't need Ground Control Points. Managing your flight will be extremely easy thanks

to the intuitive all-in-one flight controller. GSM connectivity and ADS-B receivers ensure the highest level of safety and prepare the platform to conduct BVLOS flights.

Meet the tailor-made UAV BIRDIE, the drone adjusted to your needs.

MEET UAV BIRDIE



PRODUCTIVITY AND QUALITY

60 minutes of a flight and high-quality optical sensors 24-Mpix APS-C or 42-Mpix full-frame camera - give the resolution up to 1cm/px and absolute accuracy up to 3cm.



PRECISION

Precise positioning thanks to PPK receiver on board saves your time and workforce, providing you with the survey grade accuracy without using Ground Control Points.



ADS-B AND SAFETY

UAV BIRDIE is strongly user-friendly drone as it requires no specialized flying skills. Multiple safety features include the intuitive pre-flight checklist and ADS-B in/out transceiver.



COMPLETE SYSTEM

The 360-degree photogrammetric system: BIRDIE platform, the intuitive all-in-one flight controller with flight planning app, and optional post-processing software of your choice.



INTELLIGENT BATTERY

9000 mAh Li-Ion cells, integrated numerous protections and detailed battery health monitoring. Intuitive and safe charging.



4G LTE CONNECTIVITY

Unlimited connectivity range, within the network coverage. Allows for remote supervision of UAV flight and taking over the control in case of emergency.



AUTOMATIC DATA SAVING

Your data's safety: flight logs automatically saved on camera's SD card – after executing a mission and disarming the plane.



PRECISE LANDING

Safe and precise landing thanks to the reverse thrust. Steep final approach and landing precision, even in the narrow space.

TECHNICAL DATA

| | Birdie Geo | Birdie Geo+ |
|---|------------------|------------------|
| Platform dimensions [length x height x wingspan in mm] | 560 x 140 x 1400 | 560 x 140 x 1400 |
| Transport case dimensions [length x height x width in mm] | 630 x 597 x 315 | 630 x 597 x 315 |
| weight [kg] | 2,3 | 2,35 |
| Max. payload [kg] | 0,6 | 0,6 |
| Max. speed [km/h] | 90 | 90 |
| Max. wind speed [km/h] | 54 | 54 |
| Number and type of rotors | 1, electric | 1, electric |
| Max stay in the air [min] | 60 | 60 |
| Launching method | From hand | From hand |

POSITIONING

| | | |
|-----------------------|---|---|
| Type of GNSS receiver | single-frequency code-phase (GPS, GLONASS, GALILEO, SBAS) | RTK multi-constellation, multi-frequency receiver (GPS, GLONASS, GALILEO, SBAS) |
| Correction services | DGNSS | PPK, RTK (RTCM), RTN (NTRIP) |
| IMU | Integrated with autopilot | Integrated with autopilot |

SENSORS

| | | |
|--|---|---|
| Type of camera | Sony A6000 | Sony RX1R II |
| Resolution [MPx] | 24 | 42 |
| Type of lens | Voigtlander 21 mm (optional 40 mm) | Carl Zeiss 35 mm |
| Image resolution [cm for certain height] | 2 cm for 100 m | 2 cm for 150 m |
| Productivity in one flight [area for certain resolution] | 1,8 km ² for 2 cm | 2,5 km ² for 2 cm |
| Optional sensors | RedEdge-M, Sequoia+, Flir Vue Pro, others | RedEdge-M, Sequoia+, Flir Vue Pro, others |

CONNECTIVITY RANGE

| | | |
|------------|-----------|-----------|
| Radio link | 2 km | 2 km |
| 4G LTE | unlimited | unlimited |

BIRDIE – THE EFFICIENT SURVEYOR

| Model | Focal Length | Flight altitude [m] | Terrain resolution [cm] | Maximum flight area [km ²] |
|-------------|--------------|---------------------|-------------------------|--|
| BIRDIE GEO | 21 | 535 | 10 | 9,0 |
| | | 270 | 5 | 4,5 |
| | | 215 | 4 | 3,6 |
| | | 160 | 3 | 2,7 |
| | | 105 | 2 | 1,8 |
| BIRDIE GEO | 40 | 510 | 5 | 4,5 |
| | | 310 | 3 | 2,7 |
| | | 200 | 2 | 1,8 |
| BIRDIE GEO+ | 35 | 540 | 7 | 8,3 |
| | | 385 | 5 | 5,9 |
| | | 270 | 3,5 | 4,1 |
| | | 155 | 2 | 2,4 |
| | | 120 | 1,5 | 1,8 |

**NOTE: SIDE AND FORWARD OVERLAP 70%,
FLIGHT SPEED 20 m/s, FLIGHT TIME 50 min**

MISSION MANAGER LITE AND FLIGHT CONTROLLER

Plan and manage your flight with this all-in-one device. Prepare the UAV with a transparent step-by-step checklist. Check the weather forecast, control flight zones and ATC restrictions.



- Ergonomic design of a flight controller, tested by experienced UAV operators
- Telemetry and RC connection with a plane
- Automated/semi-automated photogrammetric flights on set area
- Autonomous take-off, flight and landing

- Flight altitude adjustable to the terrain mode
- Available weather forecast
- Integrated with DroneRadar App, enables non-verbal communication with ATC services
- UAV BIRDIE battery's parameters (charge status, temperature, voltage) read directly from the app



PLAN

Flight management software to plan and manage a flight

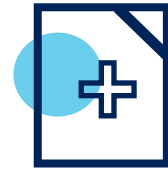
Plan your flight in details before starting a new mission. Follow flight procedure: check weather conditions, set route, complete a checklist.



FLY

Ground Control Station

Manage your flight with the intuitive panel. It's up to you whether to conduct an automated flight or to use semi-automated mode.



CREATE

Photogrammetric Software

Proceed collected data with the professional mapping and aerial image programme. Choose between a vast array of a specialized software: 3Dsurvey, Agisoft Photoscan, Pix4D.

TECHNICAL SUPPORT



WARRANTY

All our products are covered by producer's warranty. If you need to expand a standard warranty services, just contact our consultant.

TECHNICAL SERVICES

Coming across a technical issue? Our service technicians will fast and effectively help you to solve occurring problems. Also, if your UAV requires servicing, we will ensure proper help.



AFTER-SALES SUPPORT

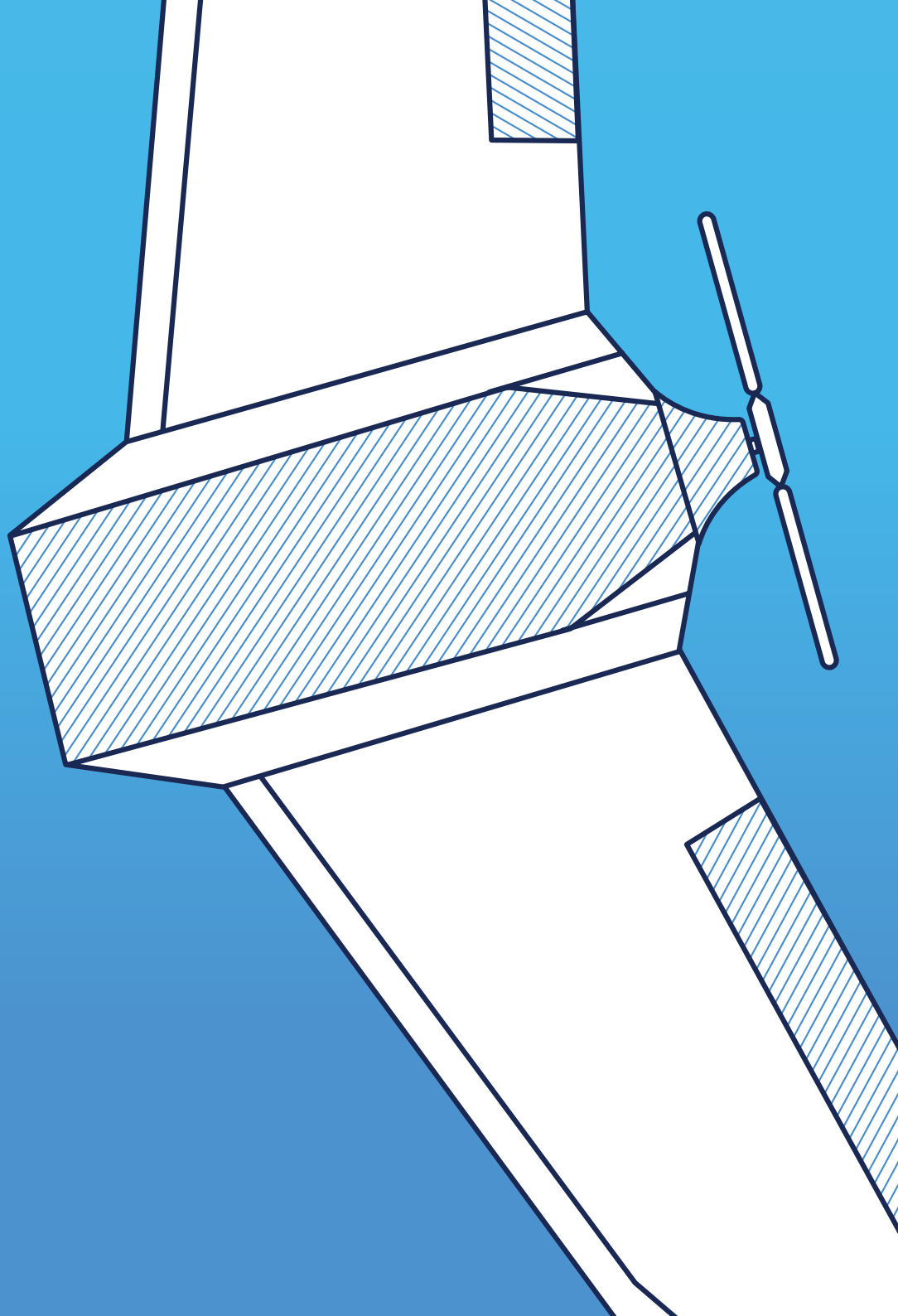
Our consultants will answer your questions concerning exploitation of UAV and will provide you with additional training/training materials as needed.

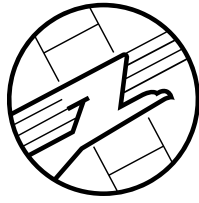
CONTACT US

FlyTech UAV Ltd.

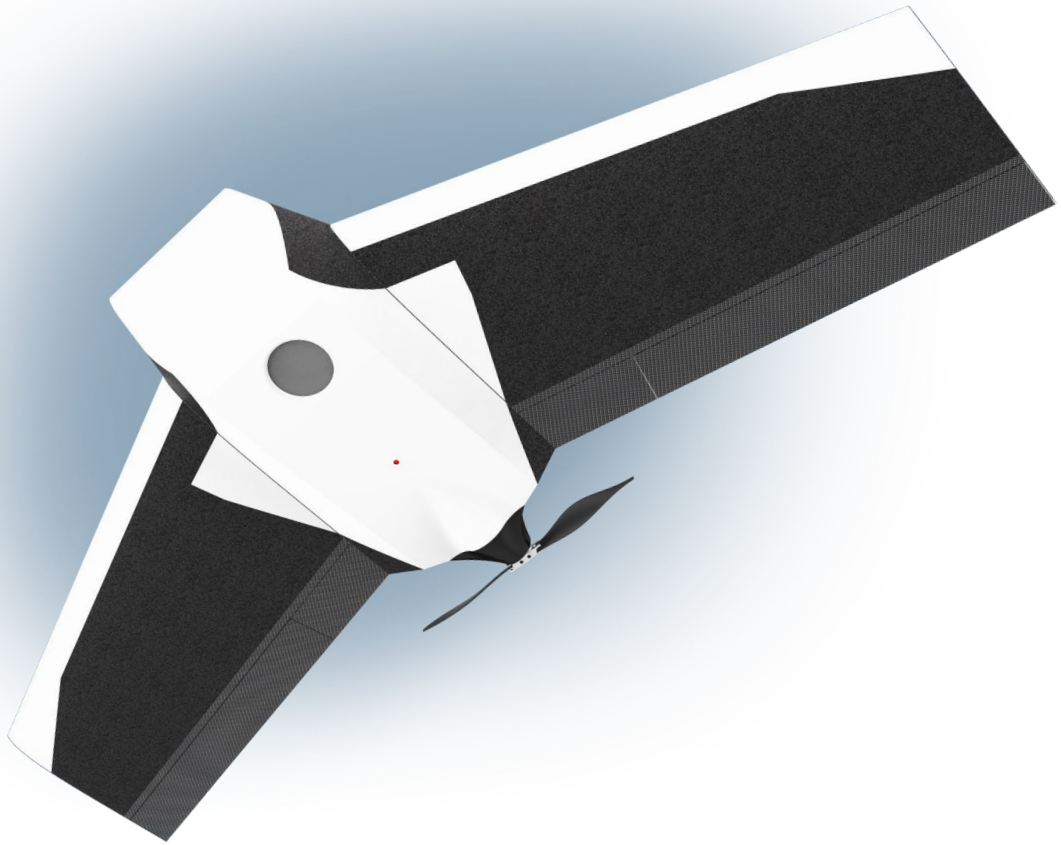
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