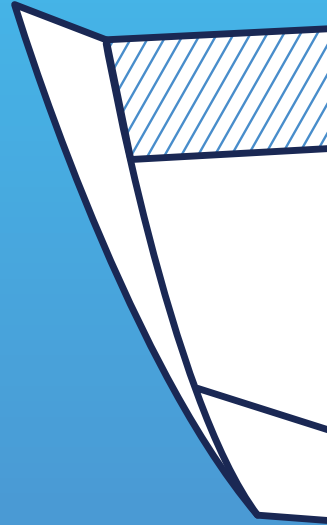


FLY TECH
UAV



UAV BIRDIE



SURVEYING
CONSTRUCTION
FORESTRY
AGRICULTURE
ENVIRONMENT
POWER ENGINEERING



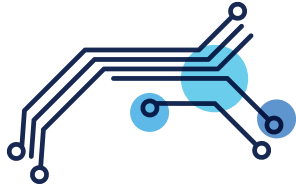
BIRDIE - YOUR TAILOR-MADE UAV

Dedicated to surveying and agriculture, UAV BIRDIE is a well-tailored drone, combining intuitive use and high quality data, thanks to precise sensors and GPS RTKL1 L2 onboard.

We augmented the safety of start and precision of landing. As a result, we present an UAV which is safe, precise and gives highly accurate data.

We also offer a wide range of additional services: a dedicated software to plan and manage a flight, data processing software as well as a flexible offer, allowing customization of your UAV.

MEET UAV BIRDIE



PRODUCTIVE

UAV BIRDIE can cover up to 8km² in one flight. Delivers high-quality data thanks to 24-Mpix camera or optional 42-Mpix full-frame optical sensor.



INTUITIVE

UAV BIRDIE is strongly user-friendly drone as it requires no specialized flying skills. Simple hand launch and automated flights make BIRDIE a perfect match even for beginners.



PRECISE

Precise point positioning GPS RTK L1 L2 saves your time and workforce, providing you with the survey grade accuracy without using Ground Control Points.



COMPLETE

A whole photogrammetric software consist of UAV BIRDIE platform, the ground control station with Mission Manager Lite app as well as data processing software.



INTELLIGENT BATTERY

9000 mAh Li-Ion cells, battery's system protecting against short circuit or overheating. Intuitive and safe charging.



CAMERA'S MAGNETIC CONNECTOR

Comfortable use and endurance of the magnetic joint. Easy camera plugging and unplugging, preventing from damaging the plug.



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]	140 x 560 x 1400	140 x 560 x 1400
Folded dimensions [length x height x width in mm]	637 x 580 x 321	637 x 580 x 321
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
Focal length [MPx]	24	42
Type of lens	Voigtlander 21 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, Sequoia, FlirVue Pro, others	Rededge, Sequoia, FlirVue Pro, others

CONNECTION SYSTEM

Radio link range [km]	2 km	2 km
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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

Easily plan and manage your flight. Prepare the UAV with a transparent step-by-step checklist. Check the weather forecast, control flight zones and ATC (Air Traffic Control) restrictions.



- Author's 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
- AGL or ASL elevation 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

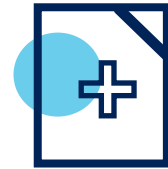
Plan your flight in details before starting a new mission. Follow flight procedure: check weather conditions, set route, complete a checklist.



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

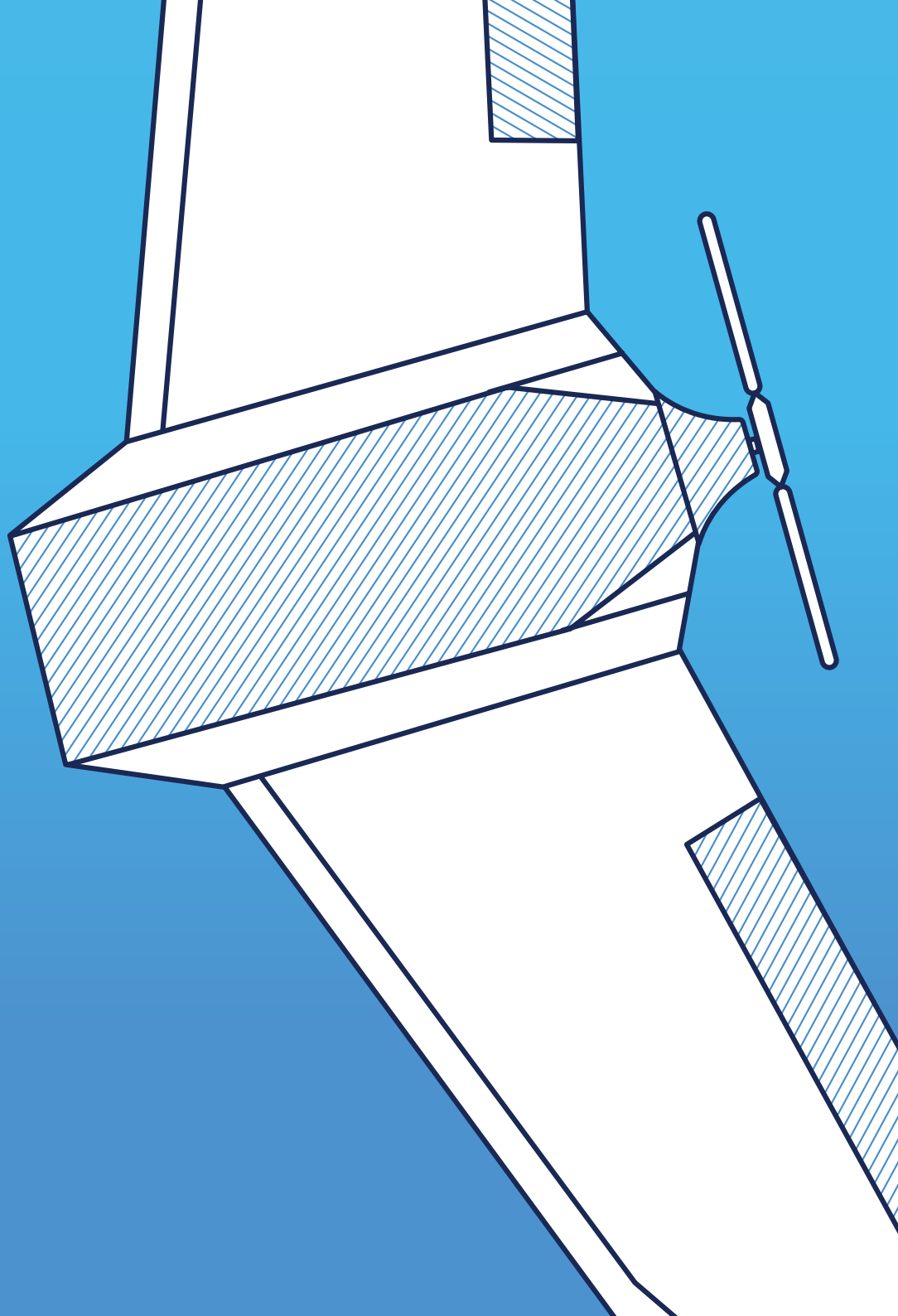
Our consultants will answer your questions concerning exploitation of UAV and will provide you with additional training/training materials as needed.

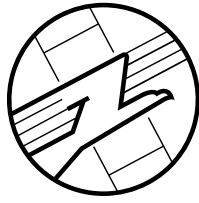
CONTACT US

FlyTech UAV Ltd.

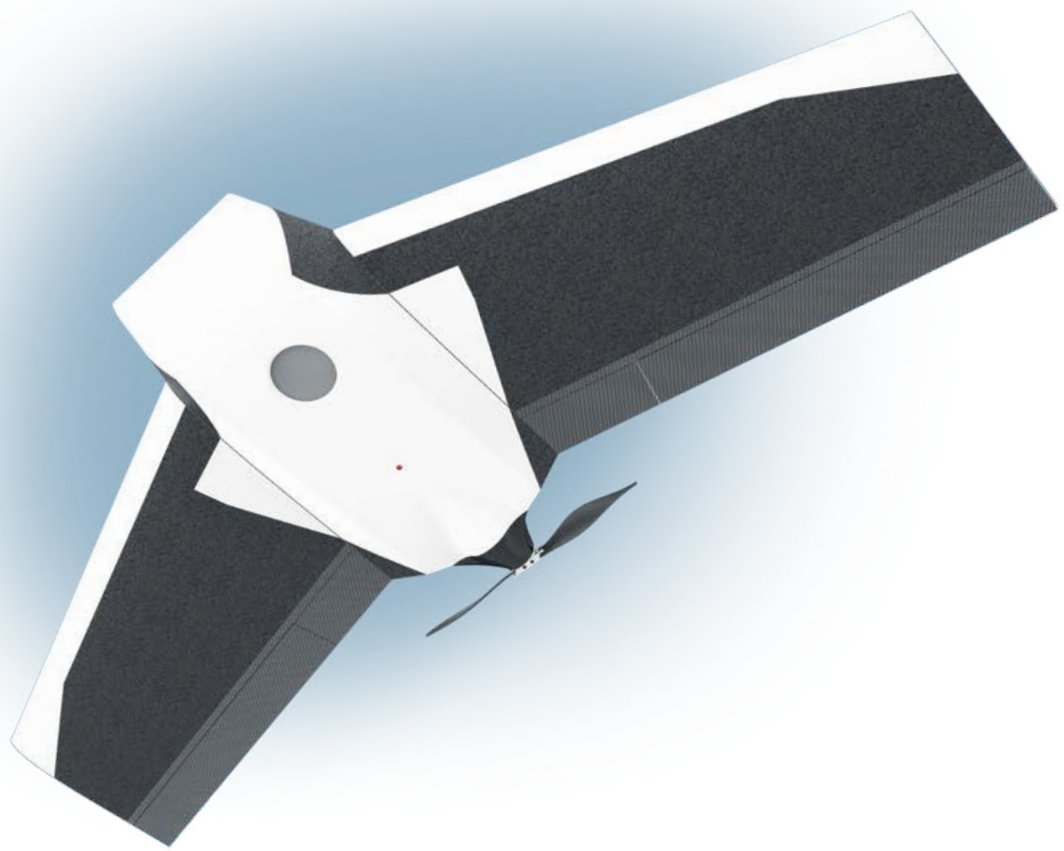
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