

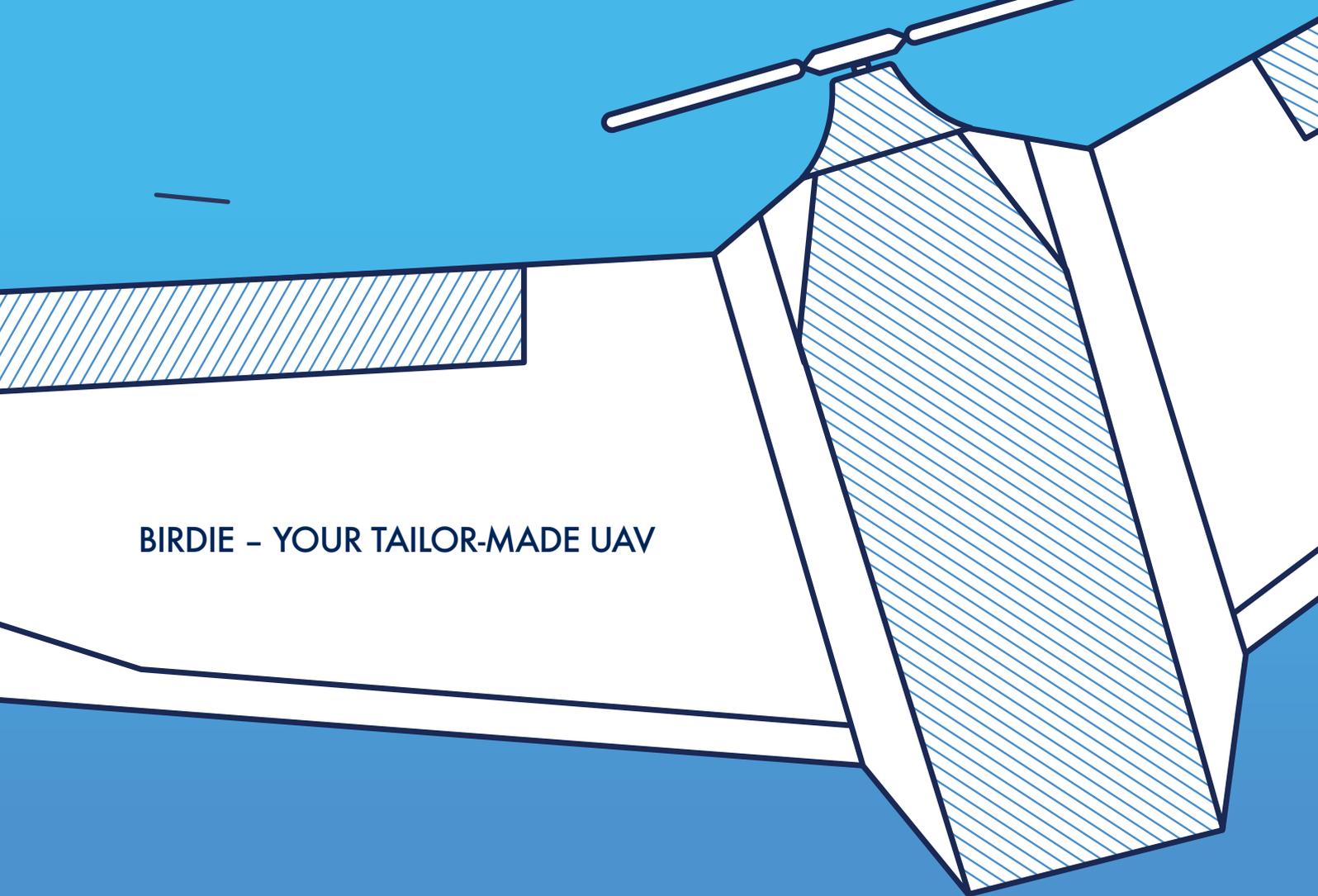
**FLY TECH**  
UAV



**UAV BIRDIE**



SURVEYING  
CONSTRUCTION  
FORESTRY  
AGRICULTURE  
ENVIRONMENT  
POWER ENGINEERING



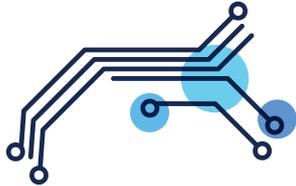
## BIRDIE - YOUR TAILOR-MADE UAV

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 8km<sup>2</sup> 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 <sup>2</sup> for 2 cm	2,5 km <sup>2</sup> 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 <sup>2</sup> ]
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

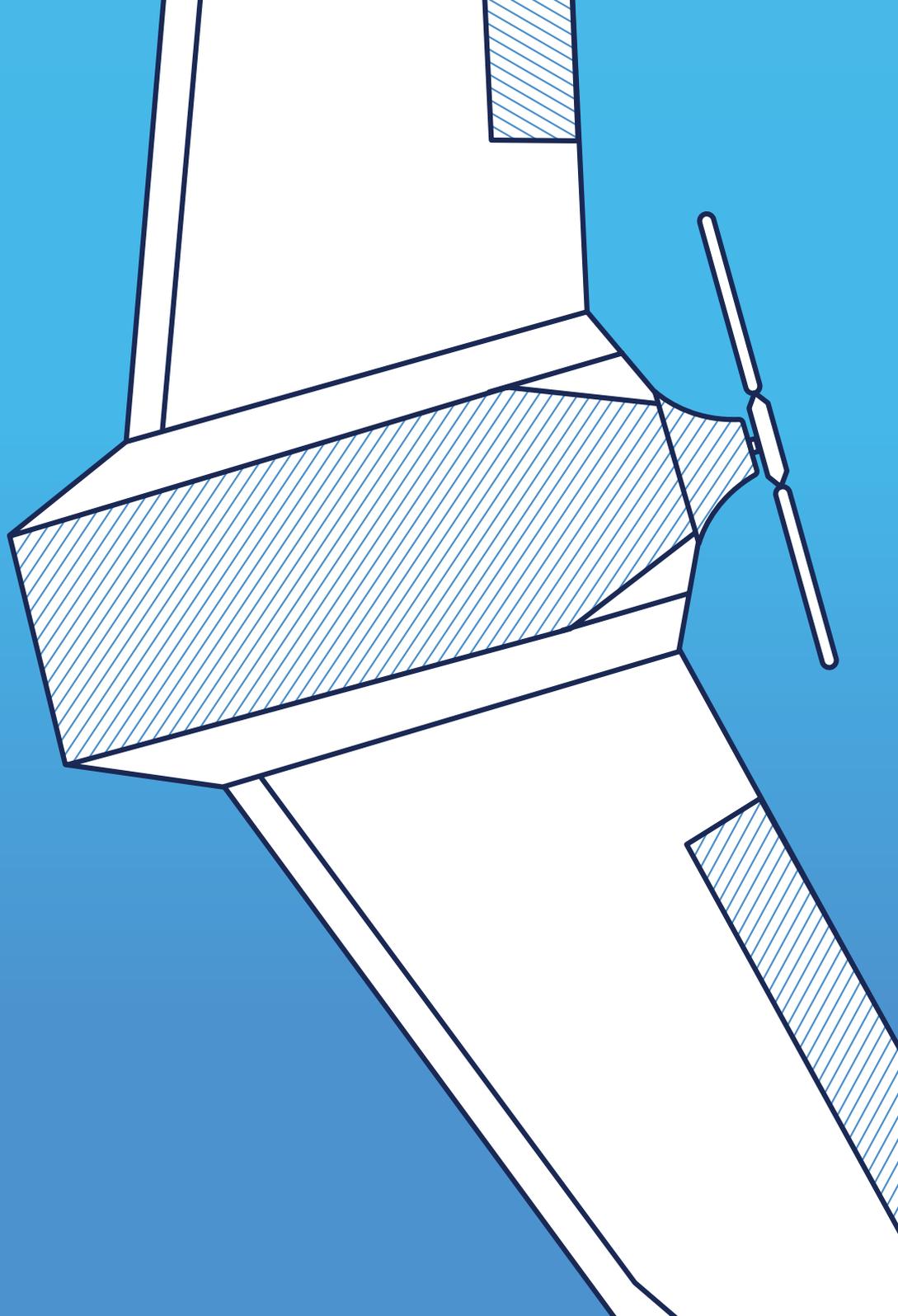
Our consultants will answer your questions concerning exploitation of UAV and will provide you with additional training/training materials as needed.

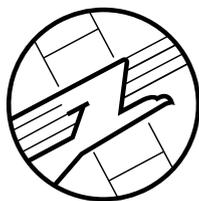
## CONTACT US

### FlyTech UAV Ltd.

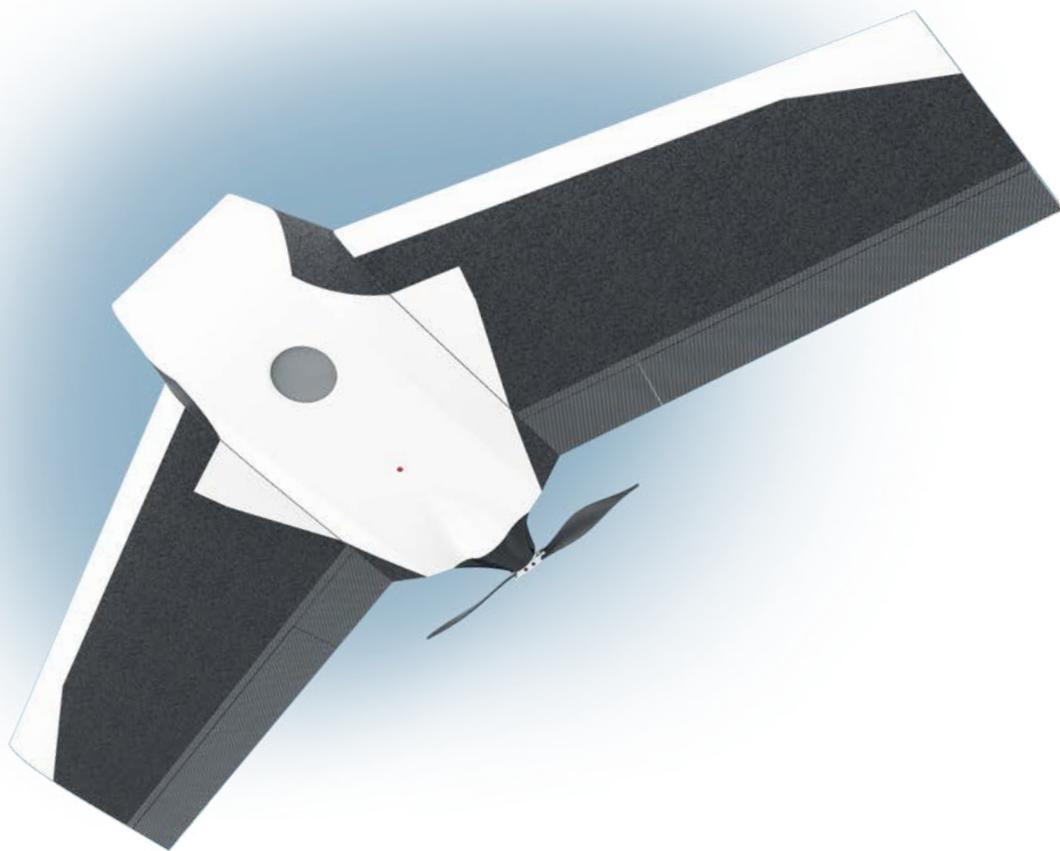
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