DATA SHEET

FLY4FUTURE®

F4F ROBOFLY

ADVANCING DRONE RESEARCH

F4F RoboFly is an advanced research flying robot powered by ROS-based software and a Raspberry Pi main computer. Designed for robust autonomy and adaptability, it delivers reliable performance across both indoor and outdoor environments.

Full Autonomy & Maneuverability

Executes missions autonomously in complex indoor and outdoor environments, including strong winds and high-speed flight scenario.

Open Source & Development-friendly

Built on Linux with ROS, allowing seamless customization, integration, and development for research and prototyping.

Onboard Artificial Intelligence & Computer Vision

Integrated with AI and computer vision for autonomous navigation, dynamic decision-making, and real-time environmental awareness.

Modular Design & Scalability

Designed with modularity in mind, featuring USB and Ethernet ports for effortless integration of sensors and payloads.

For more information visit:

fly4future.com/robofly
shop.fly4future.com

Contact us at:

info@fly4future.com
+420 608 432 900

		BASIC	VISION	SWARM
Environment		Indoor & Outdoor	Indoor & Outdoor	Outdoor
Suitable for		• Motion & Trajectory Planning • VIO & SLAM • GNSS Denied Environments • Education & Training	• Computer Vision • Neural Networks • Inspection Scenarios • AI Applications	• Research on Swarm Behavior • Decentralized Control • Mutual Localization • Communication Free Swarming
Dimensions	Wingspan	22 cm	22 cm	22 cm
	Length	22 cm	22 cm	22 cm
	Hight	23 cm	23 cm	23 cm
Takeoff Weight		850 g	870 g	890 g
Takeoff Weight With Cover		923 g	943 g	963 g
Battery Weight		267 g	267 g	267 g
Additional Payload Weight		300 g	250 g	250 g
Maximum Flight Time		11 min	10 min	10 min
Maximum Speed		25 m/s	25 m/s	25 m/s
Maximum Flight Operating Radius		500 m	500 m	500 m
Components	Onboard Computer	Raspberry Pi 5 8GB	Raspberry Pi 5 8GB	Raspberry Pi 5 8GB
	OS + Autonomy system	ROS2 on Portainer	ROS2 on Portainer	ROS2 on Portainer
	FCU	Kakute H7 v1.3 running px4	Kakute H7 v1.3 running px4	Kakute H7 v1.3 running px4
	Distribution Board	✓	✓	✓
	2 Blade Propellers	5.1 inch propellers	5.1 inch propellers	5.1 inch propellers
	4s 3700 mAh Battery	4s 2800 mAh	4s 2800 mAh	4s 2800 mAh
	GPS	M9N	M9N	M9N
	VIO	Open Vins	Open Vins	X
	Front Facing Camera	✓	✓	✓
	Down Facing Camera	✓	✓	X
	Rear Facing Camera	X	X	✓
	Hailo AI Accelerator	X	✓	X
	UVDAR Technology	X	X	✓

The F4F RoboFly comes with a remote controller, a set of spare propellers, a set of spare landing legs, and one battery. Up to two additional batteries can be purchased, for a maximum of three batteries per shipment.

© 2025 Fly4Future s.r.o. Errors and omissions excepted.