

Raefly VT240 Pro

Electric VTOL UAV

V1.0

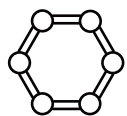


CUAV

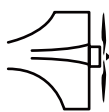
Raefly (Guangzhou) Technology Co., Ltd.



Raefly VT240 Pro



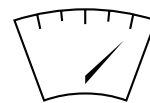
Carbon Fiber Composite



Push Back Motor



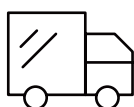
Long battery life



260km Cruising Range



Self-Developed Autopilot



Portable Transportation



2kg Payload



Fast Disassembly Design

Product Introduction

Raefly VT240 Pro is a light electric vertical take-off and landing UAV. The fuselage is made of carbon fiber and Kevlar composite material, which has the characteristics of light weight and high strength. Fluid design, perfect integration of aerodynamics, low flight resistance, battery life up to 4 hours, cruising range up to 310km; detachable design, quick disassembly, reasonable folding and storage design, allowing air transport boxes Smaller size, making operation and transportation more portable.

Integrates a powerful CUAV self-developed UAV solution, supports off-site takeoff and landing, moving platform takeoff and landing, GPS rejection, formation flight and other functions. ArduPilot's complete open source system supports secondary development

Pushback Motor Design High Efficiency and Good Vision

Pushback motor design with low KV large pitch propellers for higher motor efficiency without blocking the camera view



Efficient Tail Thruster Motor Design



Does not block pod view

Fluid Design with Small Resistance&Long Endurance

The fluid design of the Raelfy VT240 Pro fuselage perfectly integrates aerodynamics, makes the small flight resistance, and the battery life is up to 4 hours, and the cruising range can reach 310km



Quick Loading Structure Portable for Operation&Transportation

The fuselage adopts a modular design, which can be quickly disassembled and assembled. The reasonable folding and storage design makes the air transport box smaller and more portable for both operation and transportation.



Self-developed Core System Powerful Features

Integrate powerful CUAV self-developed autopilot, communication link, RTK, airspeed sensor, etc., support remote takeoff and landing, moving platform takeoff and landing, terrain following, cluster formation and other functions

Remote Takeoff
and Landing

Moving Platform
takeoff and Lading

Terrain Following

Formation



PowerfulAutopilot



High precision
positioning RTK



Ultra-long Range
communication Link



Intelligent Temperature
Compensation Airspeed Sensor

Carbon Fiber Composite Fuselage Light Weight Strong

The fuselage is made of carbon fiber and Kevlar composite material, which is light weight and high strength, so that the UAV has a longer service life and redu



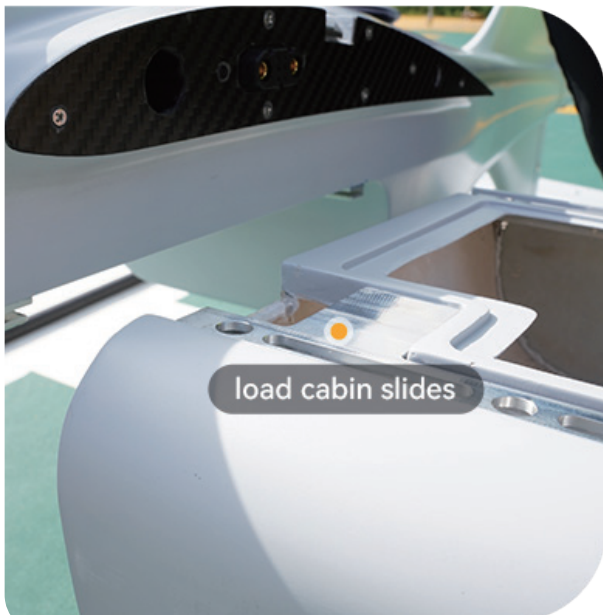
2kg Payload Various cameras are available

2kg payload, supporting a variety of cameras, adapting to more diverse application scenarios

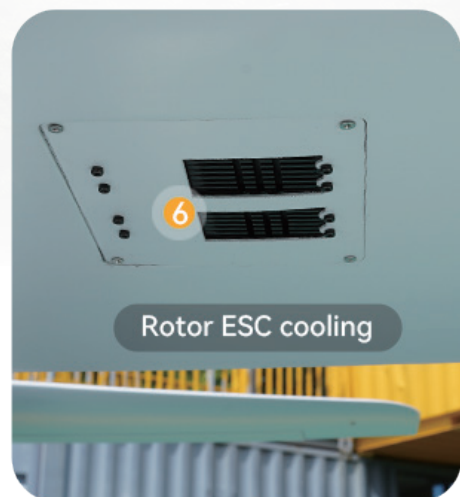
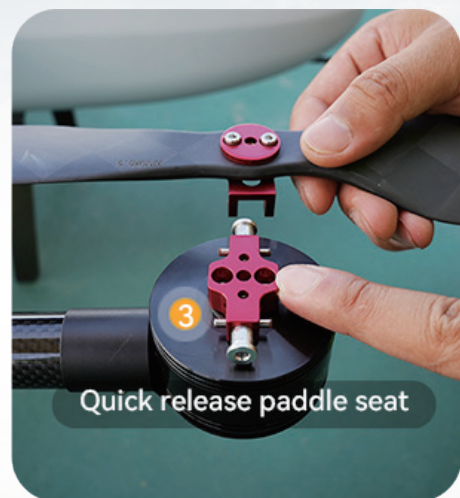
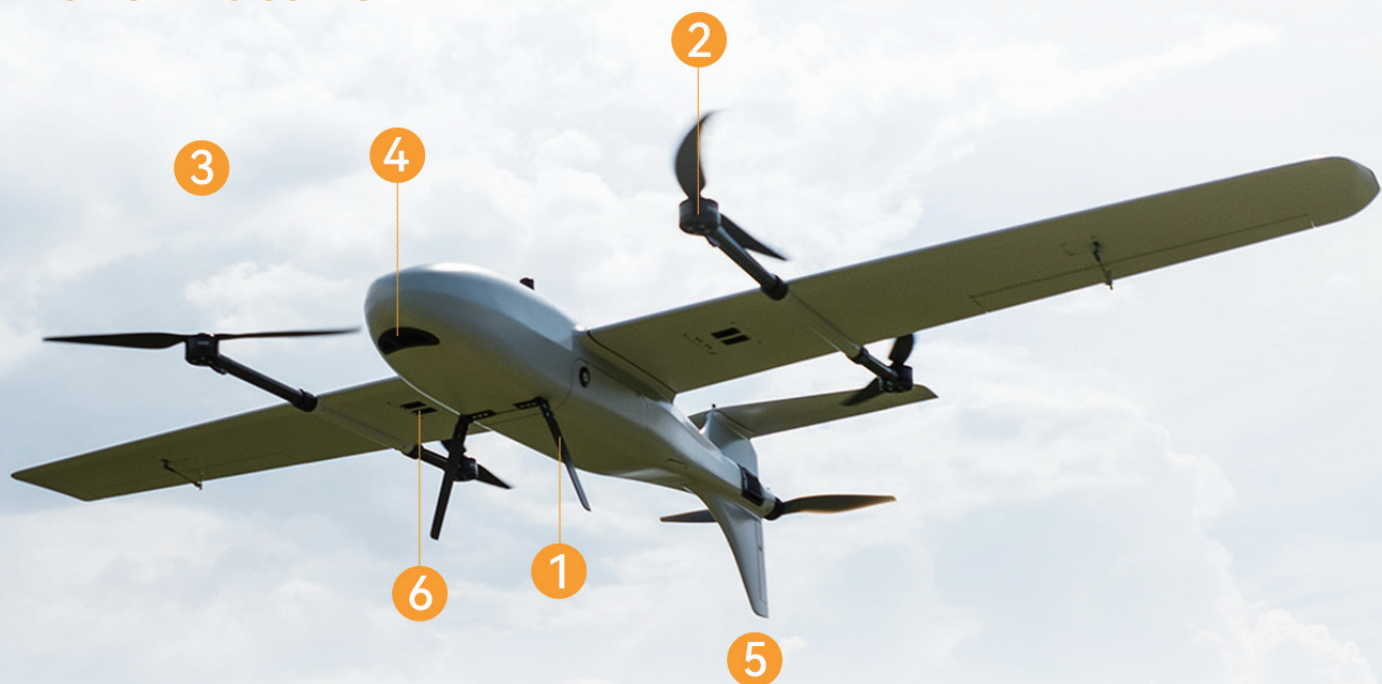


Quick-detachable cabin meet different application scenarios

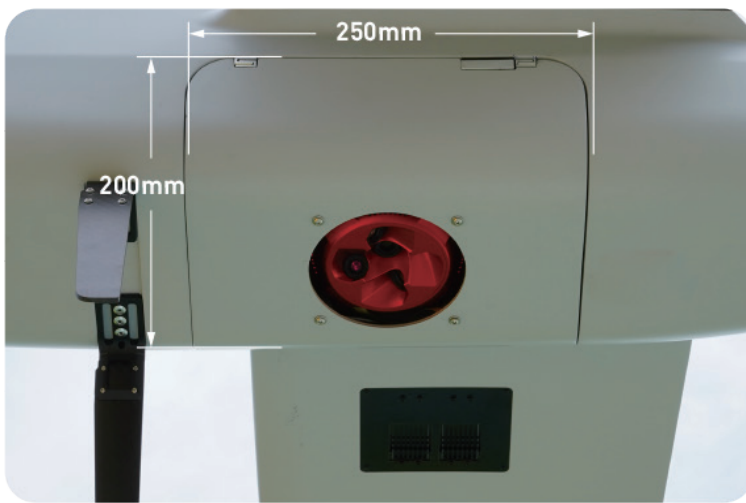
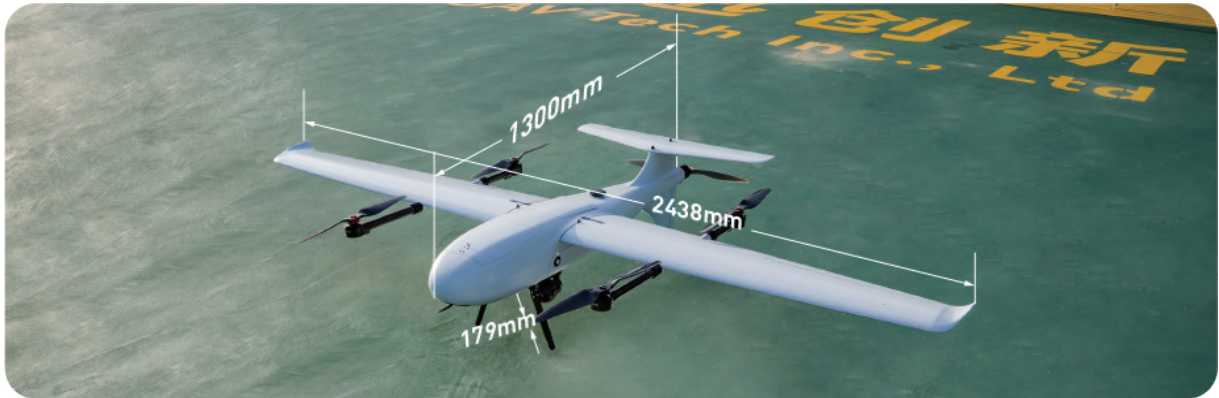
Raefly VT240 Pro adopts a quick-detachable loading cabin, which can quickly replace the load and cope with different operation scenarios



Watch in full for More Details



Size



Application Scenarios

Mapping

3D Modeling | Urban Planning
Geological Exploration
Land title confirmation

Security

Security and firefighting
Anti-smuggling Anti-drug
Anti-crime and evil
Maritime Supervision
Emergency Rescue

Inspection

Land and Transportation
Oil and Gas Pipelines
Environmental Protection Supervision
Water Supervision
Forestry Supervision

Scientific research

Scientific experiment
Training and education
Secondary development
Subject research

Logistics

Logistics Transportation | Emergency
Material Transportation

Agriculture

Precision Agriculture
Ecological Protection
Poppy patrol



Specification

Flight controller

Standard CUAV Autopilot (optional)

Size

2438×1300×376mm

Max flying speed

30m/s*

Economical cruising speed

18m/s (65km/h)

Stall speed

14.5m/s@13kg

Max cruising range

310km

Max payload

2kg

Wind resistance

Level 5

Take-off and landing mode

VTOL

Power energy

Electric

Positioning accuracy

Single point positioning: 1.5M
RTK: 1CM+1PPM

Body material

Carbon fiber + Kevlar composite material

Communication distance

Subject to link data

Ground station

QGroundcontrol/Missionplanner/LGC

Application

Surveying and mapping, Inspection, delivery*, monitoring, public security, traffic, etc.

Customized/Optional

Autopilot, GNSS receiver, remote controller, mission payload, fuselage coating, waterproof design, remote ID, etc.

*It depends on take-off weight, battery capacity, weather environment and other factors

Raefly VT240 Pro Versions

	Starter	Advanced	Enterprise	Mapping
Aircraft Frame				
Body	×1	×1	×1	×1
Left wing	×1	×1	×1	×1
Right wing	×1	×1	×1	×1
Horizontal tail	×1	×1	×1	×1
Landing gear	×1	×1	×1	×1
Engine System				
VTOL Motor	×4	×4	×4	×4
12S VTOL ESC	×4	×4	×4	×4
VTOL Propeller CW&CCW	×2	×4	×4	×4
12S Plane ESC	×1	×1	×1	×1
Plane Cruise Motor	×1	×1	×1	×1
Servo	×4	×4	×4	×4
Forward Propeller	×2	×2	×2	×2
Autopilot System				
Autopilot	Pixhawk V6X	Pixhawk V6X	Pixhawk V6X	Pixhawk V6X
GPS/RTK	NEO 3	NEO 3	NEO 3 Pro C-RTK 9Ps	C-RTK 9Ps (Base+Rover) /C-RTK2
Airspeed Sensor	MS4525	MS5525	MS5525	MS5525
RC System				
Remote control	TX12	H16	TX12	TX12
Receiver	×1	×1	×1	×1
Link				
Date/Video Link	-	H16	LBA 3	P8/P9

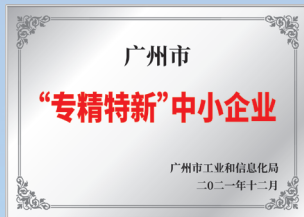
Camera system				
Camera	-	10x Zoom	AT30TR	102s
BEC adapter	-	×1	×1	×1
Others				
Aluminum transport box	×1	×1	×1	×1
Wire package	×1	×1	×1	×1
hobbywing 25A	×1	×1	×1	×1
Power Battery	-	×2	×2	×2

Company Introduction

Raefly (Guangzhou) Technology Co., Ltd. is a wholly-owned subsidiary of CUAV Tech Inc., Ltd. The company is located in Nansha District, Guangzhou City. It has a dedicated airspace of 45 square kilometers and a flight base of more than 2,000 square meters. It is authorized by the Civil Aviation Administration of China , AOPA certified UAV pilot training institution. The company has a professional UAV technical team, which has provided UAV debugging and technical services for more than 2,000 UAV companies. It has rich experience in the fields of surveying and mapping, inspection, police and other UAV applications. Committed to becoming a leading provider of PIX open source UAV application solutions.



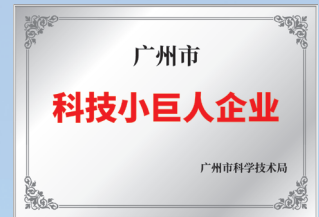
Enterprise Strength



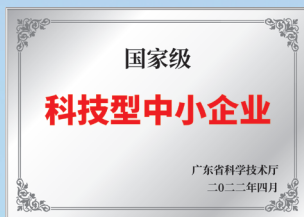
Special and special certificate



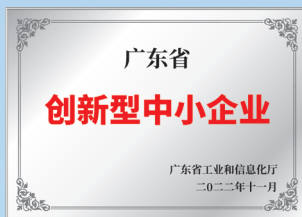
High-tech enterprises



Technology Little Giant Enterprise



Technology-based small enterprises



Innovative SMEs



Training Institution Certificate



Own Production Line



Partner



Patent display

(Partial Display)

Software Copyright



Invention&Utility Model



Appearance Patent



Trademark Certificate





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CUAV

Raefly (Guangzhou) Technology Co., Ltd.

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