UAV BROCHURE

Raefly (Guangzhou) Technology Co., Ltd.

UAV APPLICATION SOLUTIONS PROVIDER

CONTENT

Raefly (Guangzhou) Technology Co., Ltd.

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.

Raefly Flight Base

Main Business

UAV Solutions

UAV Technical Service

UAV Training

UAV License Training

Industry Experience

Raefly VT260 Support for COVID-19 Prevention&Control

Raefly Customer bulk order

Raefly VT260 Customer bulk order

Customers of Raefly VT370

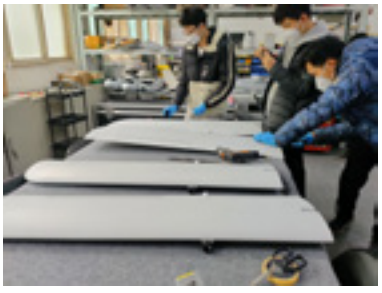
Raefly VT370 bulk order

Raefly VT240 anti-smuggling operation on the high seas

Provide customers with hydrogen energy UAV technical services

UAV training for SWAT

UAV Production Line



Our Previous Exhibitions

2018 Zhuhai, China
Global Unmanned System Conference

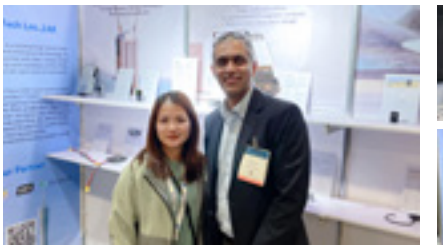
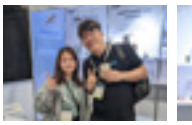
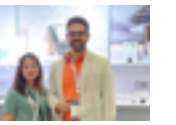
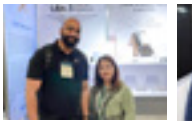
2019-2025 Shenzhen, China
UAS EXPO







2023 Denver, USA
XPONENTIAL


2024 Abu Dhabi, The United Arab Emirates
Unmanned System Exhibition and Conference




2024 Kuala Lumpur, Malaysia
DSA & NATSEC ASIA 2024, MALAYSIA



2024 London, UK
DRONEX 2024, LONDON



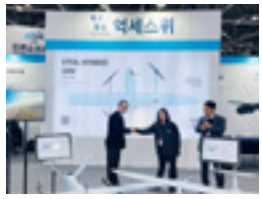
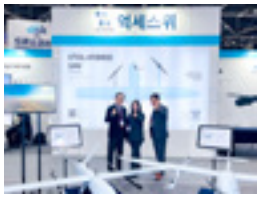



2025 DÜSSELDORF, GERMANY
XPONENTIAL EUROPE 2025




2025 Busan, South Korea
DRONE SHOW KOREA 2025




Raefly VT240 Pro Electric VTOL UAV

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.

Features

- Push back motor, high efficiency ,does not block the view of the camera
- Long endurance, cruising range up to 310km
- Quick loading structure, convenient operation and transportation
- Support remote&moving platform take-off and landing, terrain following, cluster formation and other functions
- Carbon fiber composite material fuselage, lightweight, strong, with longer service life
- 2kg load, support rich payload

Composite Carbon Fiber Fuselage

Dual RTK Estimate Yaw

Quick-Release Payload Cabin

Head Cooling Air Duc

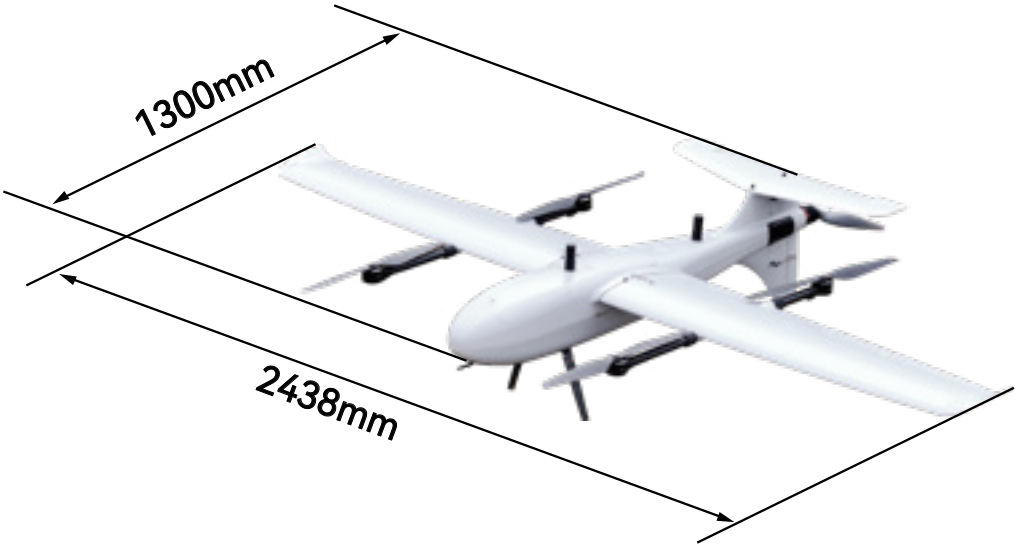
Raefly VT240 Pro Specifications

Body material	Carbon fiber + Kevlar composite material
Size	2438×1300×376mm
Max flying speed	30m/s
Economical cruising speed	18m/s（65km/h）
Stall speed	14.5m/s@13kg
Endurance	5h
Max cruising range	310km
Max payload	2kg
Wind resistance	Level 5
Takeoff and landing mode	Vertical takeoff and landing
Power energy	Battery
Positioning accuracy	Single point positioning: 1.5M RTK: 1CM+1PPM
Controller	CUAV series controller
Communication distance	Based on link data
Customized/ Optional	Controller, GNSS, remote controller, mission payload, body coating, waterproof design, remote ID, etc
Ground station	QGoundcontrol/Missionplanner/LGC
Application Scenario	Mapping, inspection, logistics, monitoring, public security, delivery, etc

Rotor ESC Cooling

Rear Cooling Air Duct

Size



Landing Gear

Push Back Motor

Raefly VT290

Electric Long Range Big Load UAV

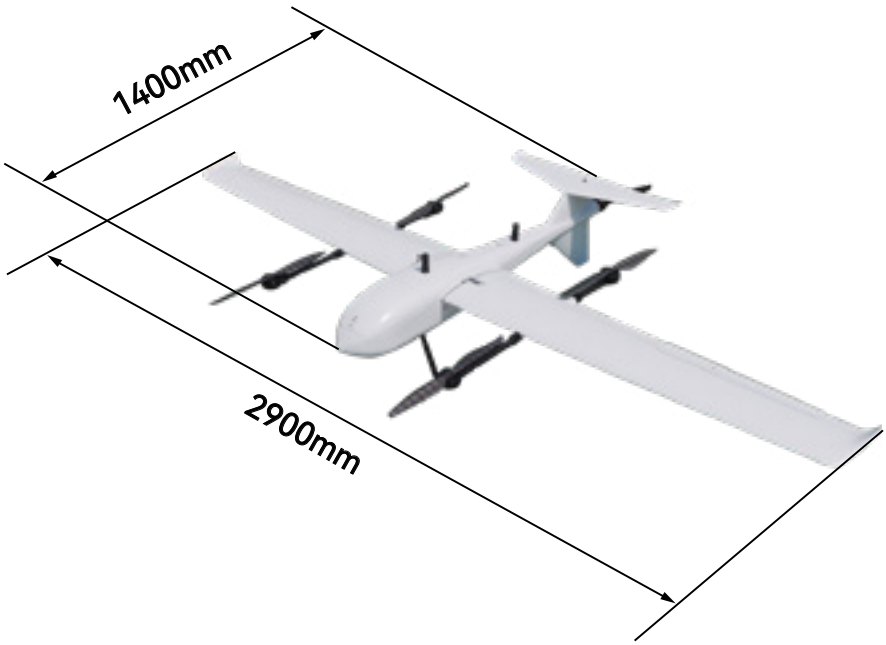
Introduction

The new generation Raefly VT290 composite VTOL UAV, with a fluid design, has significantly reduced flight drag. Split design, support tool-free quick disassembly. Equipped with passive cooling air channel, the maximum support 5kg load, equipped with quick disassembly load tank, fast replacement task mount, improve the comprehensive application experience of aerial surveying and mapping, wide-area inspection, material delivery and other application fields.

Raefly VT290 Specifications	
Body material	Carbon fiber+Kevlar composite material
Wingspan	2900mm
Max flying speed	35m/s
Economical cruising speed	20m/s
Stall speed	16m/s
Endurance	No load: 5h 5kg load: 3h
Maximum range	370km
Max payload	5kg
Empty weight	13.5kg
Max takeoff weight	19kg
Wind resistance	Level 6
Takeoff and landing mode	Vertical takeoff and landing

Power energy	Battery
Positioning accuracy	Single point positioning: 1.5M RTK: 1CM+1PPM
Controller	CUAV series Controller
Communication distance	Based on link data
Customized/ Optional	Controller, GNSS, remote controller, mission payload, body coating, waterproof design, remote ID, etc
Ground station	QGoundcontrol Missionplanner/LGC
Application scenario	Mapping, inspection, logistics, monitoring, public security, delivery, etc
Wing installation angle	2°
Wing area	72dm^2
Wing load	264g/dm^2@19kg

Size



370km Maximum Range

5kg Payload

Raefly VT370

Gasoline Electric VTOL UAV

Tandem-Wing

Gasoline Electric Hybrid

10h Flight Time

Fast Disassembly Design

Controller

Self-Developed Controller

Carbon Fiber Composite

8kg

8ka Payload

Custom External Shock Bed

Introduction

Raefly VT370 is a 35kg gasoline hybrid tandem-wing vertical take-off and landing fixed-wing UAV. The innovative tandem wing design with large aspect ratio greatly reduces the induced drag of the wing, greatly increases the lift-to-drag ratio in the cruising state, and improves cruising efficiency. Compared with the conventional configuration, the tandem wing configuration has lower cruise resistance and fuel consumption per hour at the same speed and weight, and can achieve up to 10 hours of flight time.

Integrates powerful CUAV self-developed controller and communication links, etc., supports remote take-off and landing, moving platform take-off and landing, terrain following, cluster formation and other functions; suitable for aerial surveying and mapping, inspection, fire safety, material delivery and other application fields.

Twin Cylinder Engine

High Torque Motor

Features

- Tandem wing design to increase lift
- Gasoline-electric hybrid, 10h flight time
- ADIS sensor + customized external shock bed
- Support off-site &moving platform take-off and landing, Terrain following, cluster formation and other functions
- 3 redundant IMUs to ensure flight safety
- Quick loading structure
- 8kg payload

Raefly VT370 Specifications

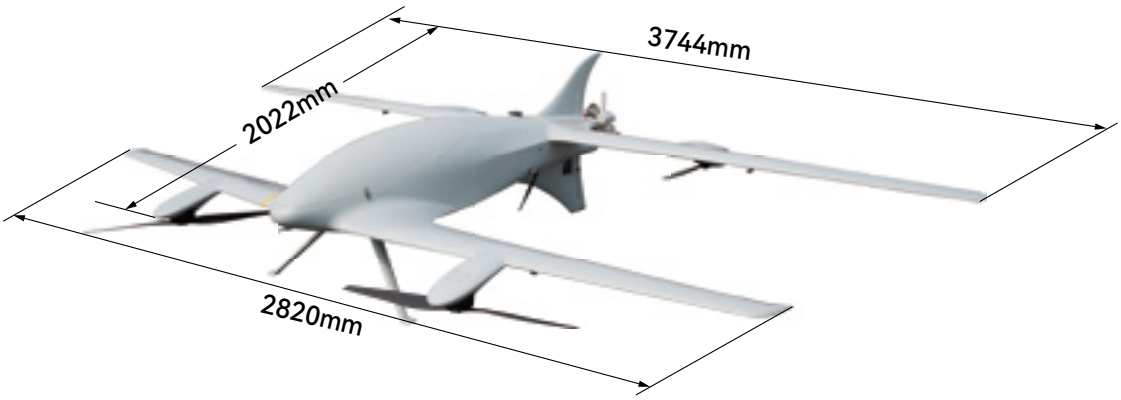
Layout	Tandem wing
Power	VTOL electric, fixed wing oil
Takeoff weight	35kg
Maximum load	15kg (including oil)
Battery life	10 hours (8kg load, 10L oil)
Wind resistance	level 6
Span	Front 2820mm/Rear 3744mm
Full length	2022mm
Height	696mm
Width	470mm
Load bin size 1	240*240*200mm
Load bin size 2	160*200*120mm
Shipping box size	2130*750*630mm(including wheels)
Standard engine	Two-cylinder gasoline engine
Fuel tank capacity	6-10L
Cruising speed	24-40m/s
Max rate of climb	4m/s（Fix-wing）
Max flight altitude	5000m
Operating temperature	-20℃ -50℃

Self-developed Controller&customized shock bed

Long load bin

Tandem wing

Size



Raefly VT260
Electric VTOL UAV

Carbon Fiber Composite

230km Cruising Range

210min Battery Life

Auto Center Motor

Large Cabin

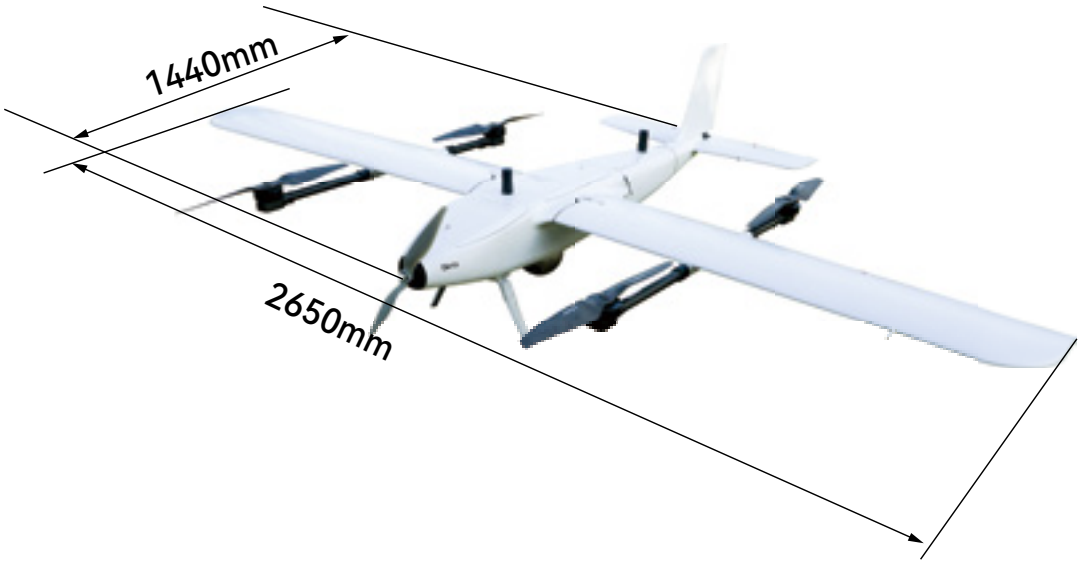
2.5kg Payload

Introduction

Raefly VT260 is a high-performance 12kg-class electric VTOL; the fuselage is made of high-strength composite materials, and the flight is stable; the whole machine adopts fluid design, which perfectly integrates aerodynamics, has low flight resistance and strong stability. Large cabin space, up to 230km flight range, can meet the needs of most application scenarios.

Carbon Fiber Composite

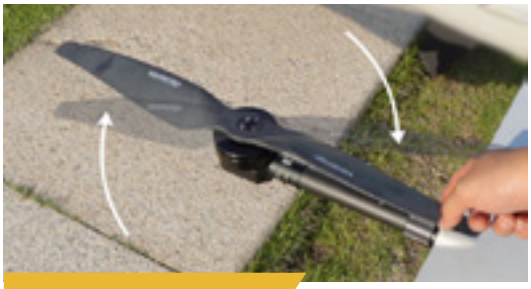
Size



Raefly VT260 Specifications	
Body material	Carbon fiber composite
Wingspan	2650mm
Body length	1440mm
Maximum flight speed	30m/s
Stall speed	16m/s（13kg）
Endurance time	12S 30000mAh Battery：210min 12S 22000mAh Battery：160min
Max cruising range	230km（12S 30000mAh Battery）
Max flying altitude	5000m
Max payload	2.5kg
Max take-off weight	13.5kg
Load cabin size	300mm×180mm×150mm
Wind resistance	level 6
Takeoff and landing mode	Vertical takeoff and landing
Power energy	Battery
Disassembly method	Tool-free disassembly

Vertical Tail

Quick-Release Buckle



AutoCenter Motor

30kg Gasoline VTOL UAV customer tuning case

UAV Tuning Service

We provide customers with 45 square kilometers of dedicated airspace and more than 2,000 square meters of flight bases, debug drones for customers, and solve problems for customers that cannot be adjusted, cannot fly, dare not fly, and have no airspace.

Customer Case

30kg Gasoline VTOL UAV customer tuning case

30kg Gasoline VTOL UAV customer tuning case

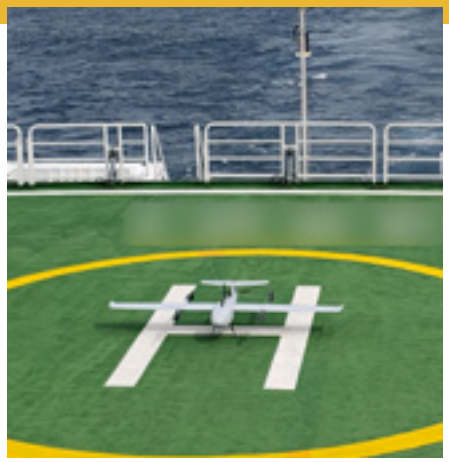
Hydrogen energy UAV customer case

30kg Gasoline plane customer case

50kg Gasoline VTOL UAV customer tuning case

Gasoline multi-rotor UAV customer case

30kg electric VTOL UAV customer tuning case



Technical services for an action of strike high seas smuggling

UAV Technical Service

Our company provides professional technicians to assist customers in completing UAV-related projects, such as customer demonstrations, exercises, performances, surveying and mapping, etc.

Customer Case

Assist an organization in conducting exercises

Conduct UAV combat drills with a SWAT

Mapping case

Support Guangzhou COVID-19 prevention and control

Assist in security control

Using UAV to assist with firefighting

Youtube

www.cuav.net/en

3rd Floor, South China Technology Transfer Center, South Huanshi Avenue, Nansha District, Guangzhou