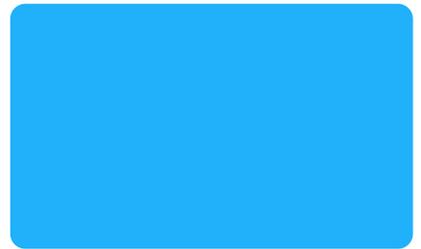


# UAV BROCHURE

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Raefly (Guangzhou) Technology Co., Ltd.  
**UAV APPLICATION SOLUTIONS PROVIDER**



# 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.



Training Institution Certificate

## 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



Demonstrate the CUAVCloud system for customers



Raefly VT240 smuggling operation on the high seas

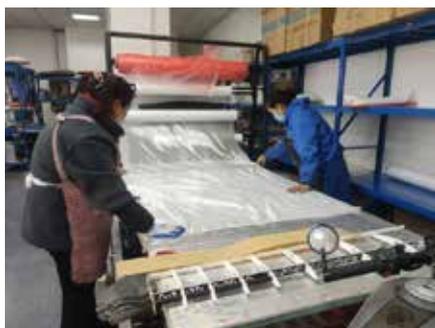


Provide customers with hydrogen energy UAV technical services



UAV training for SWAT

## UAV Production Line



# ***Raefly VT240***

## ***Electric VTOL UAV***



Raefly VT240 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 260km; detachable design, quick disassembly, reasonable folding and storage design, allowing air transport boxes. Smaller size, making operation and transportation more portable.

Integrates powerful CUAV self-developed flight 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.



## Features

- ▶ Push back motor, high efficiency ,does not block the view of the camera
- ▶ Fluid design, low resistance, 4h battery life ,260km cruising range
- ▶ Quick loading structure, convenient operation and transportation
- ▶ Support remote&moving platform take-off and landing, terrain following, cluster formation and other functions
- ▶ 3 redundant IMUs to ensure flight safety
- ▶ 2kg load, support rich payload



Composite carbon fiber body



Foldable tripod



Aviation Plug



Push back motor



## Raefly VT240 Specifications

Body material	Carbon fiber composite
Size	Wingspan: 2438mm Body length: 1250mm
Max flying speed	30m/s
Economical cruising speed	18m/s (65km/h)
Stall speed	16m/s
Battery Life	4h (It depends on take-off weight, battery capacity, weather environment and other factors)
Max cruising range	260km
Max flight altitude	5000m
Max payload	2kg
Max take-off weight	13.5kg
Wind resistance	Level 5 (Level 6 in cruise stage)
Take-off and landing mode	VTOL
Power energy	Electric
Positioning accuracy	Single point positioning: 1.5M RTK: 1CM+1PPM
Flight controller	CUAV series flight controller
Communication link	WIFI/4G/5G/Public Radio
Communication distance	10km/30km/50km/100km (optional)



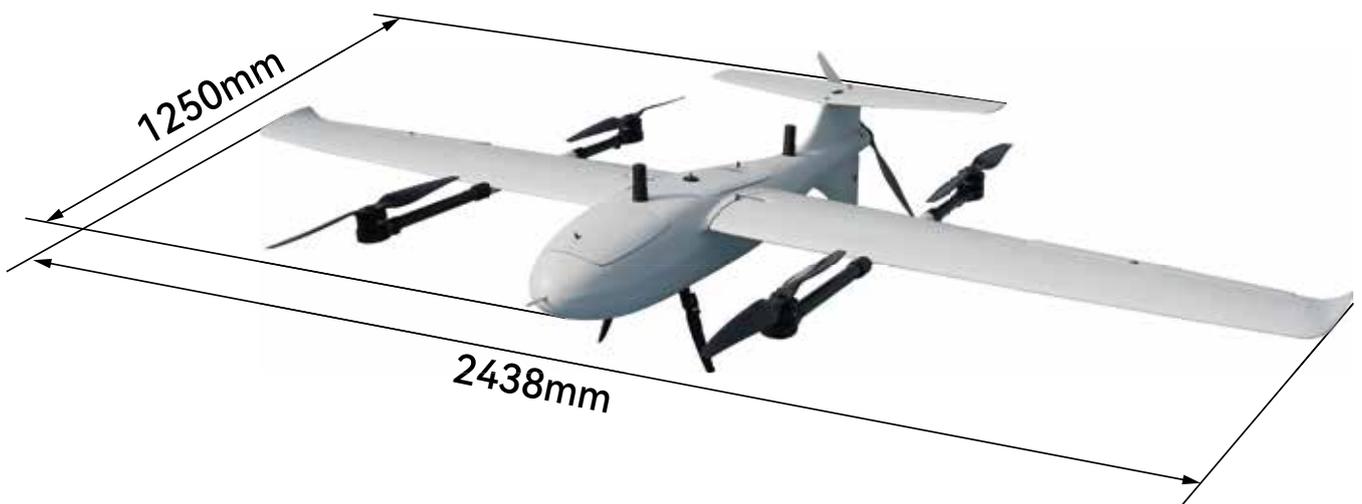
ESC



Tail



## ► Size



Oversized load bin



Dual RTK estimate yaw

# *Raefly VT260*

## *Electric VTOL UAV*



Carbon fiber Composite



230km Cruising Range



210min Battery Life



Auto Center Motor



Large Cabin



2.5kg Payload



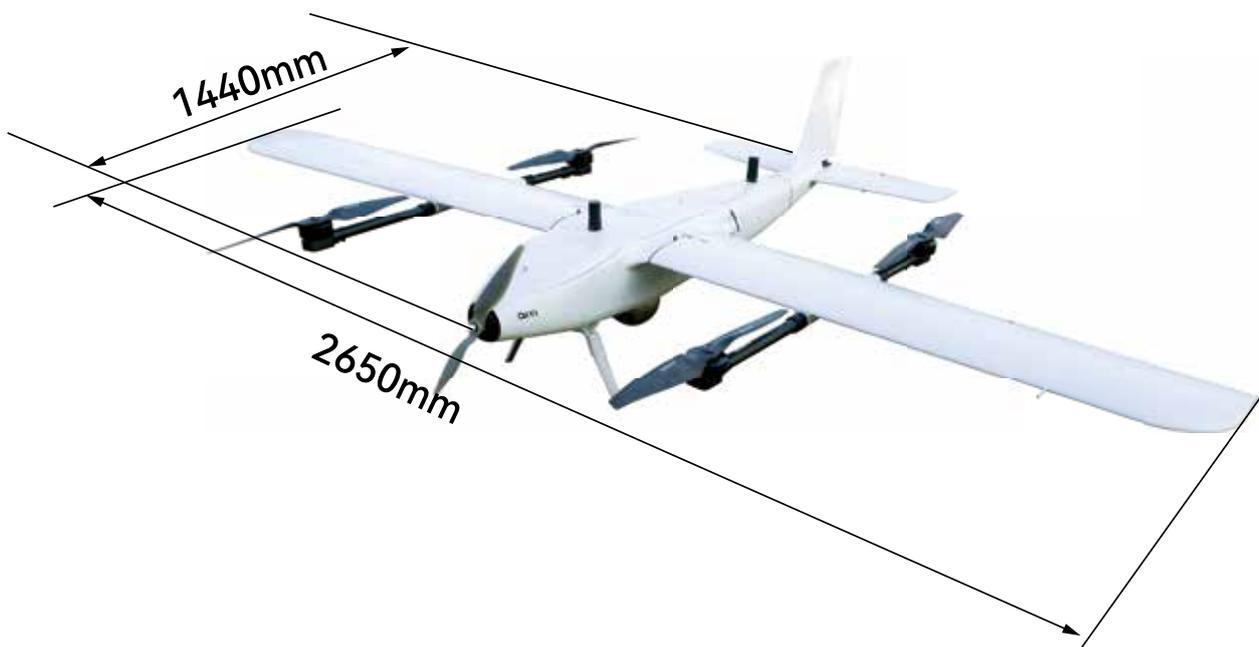
## ► Introduction

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; to meet the needs of most application scenarios.



Carbon fiber Composite

## ► Size



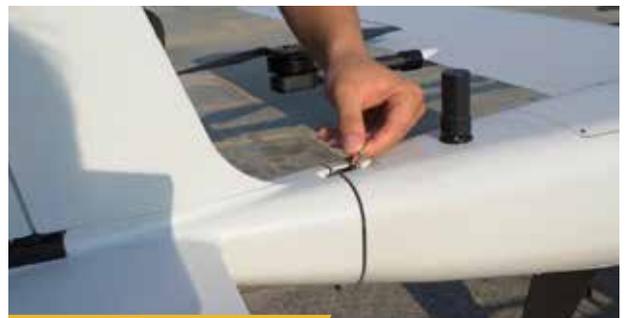


## Specifications

Body material	Carbon fiber Composite
Wingspan	2650mm
Body length	1450mm
Maximum flight speed	30m/s
Economic cruising speed	19~22m/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	Multi-rotor (VTOL stage) level 5 / Fixed wing level 6)
Model	VTOL
Power energy	Electric
Disassembly method	Tool-free disassembly



Vertical Tail



Quick-Release buckle



AutoCenter Motor

# Raefly VT370

Gasoline Electric VTOL UAV



Tandem-Wing



Gasoline electric hybrid



10h Flight Time



Fast disassembly design



Self-developed Autopilot



Carbon fiber Composite



8kg 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 flight 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

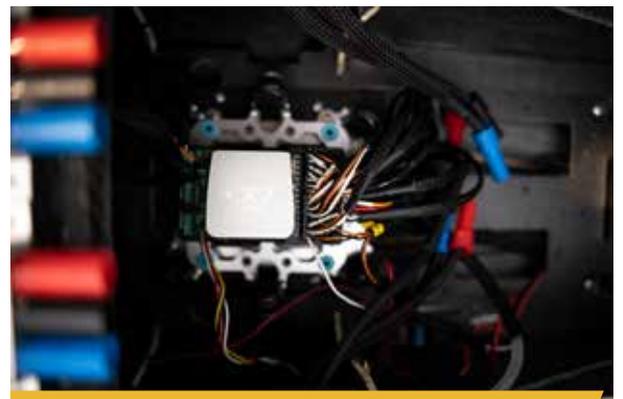
## Features

- ▶ Tandem wing design to increase lift
- ▶ Gasoline-electric hybrid, 10h flight time
- ▶ ADIS sensor + custom 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 370 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 rating	Take-off and landing level 6, cruising 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	12L
Cruising speed	24-40m/s
Max rate of climb	4m/s (Fix-wing)
Max flight altitude	5000m
Operating temperature	-20°C -50°C



Self-developed Autopilot&customized shock bed



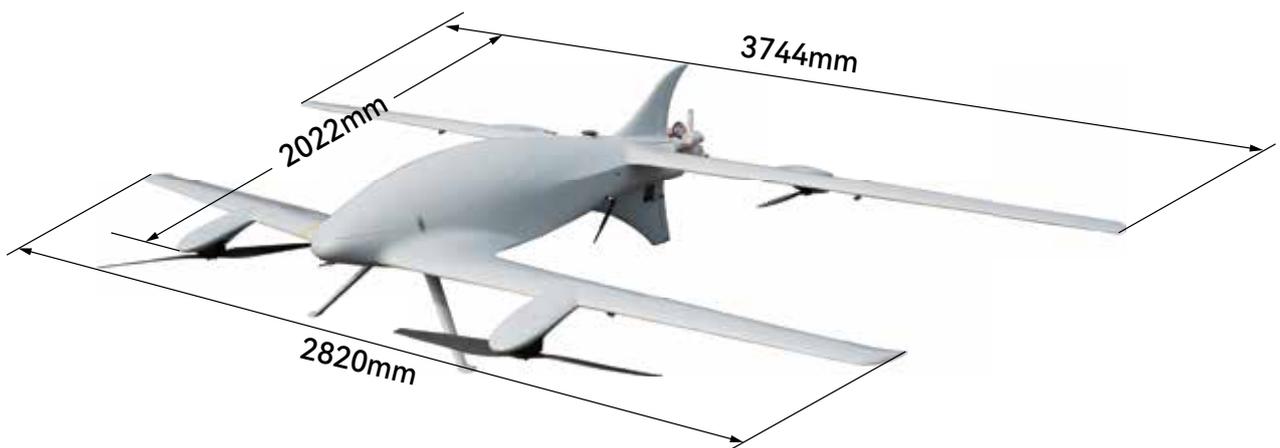
Long load bin



Tandem wing



## Size



# *Raefly*

*Electric VTOL UAV*



2.5h Battery Life



Fast Disassembly



Self-developed  
Autopilot

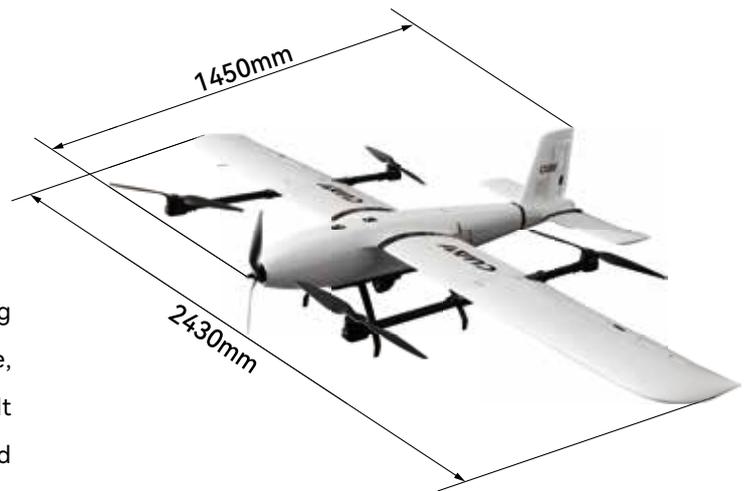


1.5kg Payload



## Introduction

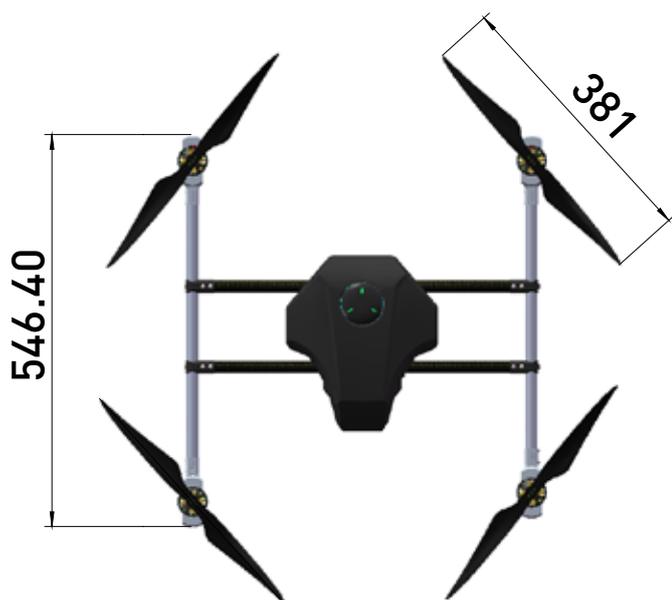
Raefly is a 10kg class electric vertical takeoff and landing UAV; Adopt quick disassembly and collapsible structure, Up to 2.5h battery life, 150km maximum flight range; It can be widely used in inspection, aerial surveying and mapping.



Material	EPO+Carbon fiber
Size	2430mm x 1450mm x 180m
Max flight speed	27m/s
Recommended flight speed	19~20m/s
Stall speed	10m/s(500m, take off weight 10.5kg)
Payload	1.5kg(max)
Max flight range	150km
Net weight	10.1kg



# XunWing X4 Quadcopter UAV



## XunWing X4 Specification

Size	51cm*53cm*24cm (without paddles)
wheelbase	66cm
Frame material	Carbon fiber (the tripod is made of plastic)
Total Weight	3.12kg
load	0.5kg
remote control distance	3km
maximum flying speed	12m/s

Wind resistance	Level 6
recharge mileage	12km
battery life	35 min
expandable device	RTK/Rangefinder etc./Optical flow, radar, ultrasonic etc.
Application Scenario	Aerial photography, patrol inspection, live broadcast, etc.
APP	APM, QGC, CUAV GS, FeiGong Transmission
smart mode	Autonomous flight/follow mode/ smart return/fault protection/ pointing flight/smart route, etc.
return error	<1.5m



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



## 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.

Technical services for an action of strike high seas smuggling

### ► 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



WhatsApp

[www.cuav.net/en](http://www.cuav.net/en)

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