Falcon A1

Small-sized VTOL fixed-wing UAV

—Feature

- Flight Mode Control
- One-key Return
- Waypoint Route Planning
- Video Camera Control
- Return When out of Control

—Parameters

Wingspan	2500mm	Max climb rate	5m/s
Max payload	2kg	Max level speed at sea level	100km/h
Taking-off weight	⩽12kg	Working height	3500m
Taking-off &landing	VTOL	Wind resistance	8.0m/s
Cruising speed	70-100km/h	Power system	battery
Duration	⩾2h	Optional payload	POD/PTZ camera
Support low voltage protection and automatic return		Lock-type installation/Electrical structure integration/Easy to disassemble	

—— Falcon A2

VTOL fixed-wing UAV (battery)

—Feature

Flight Mode Control

One-key Return

Waypoint Route Planning

Video Camera Control

Return When out of Control

Flight Direction Lock

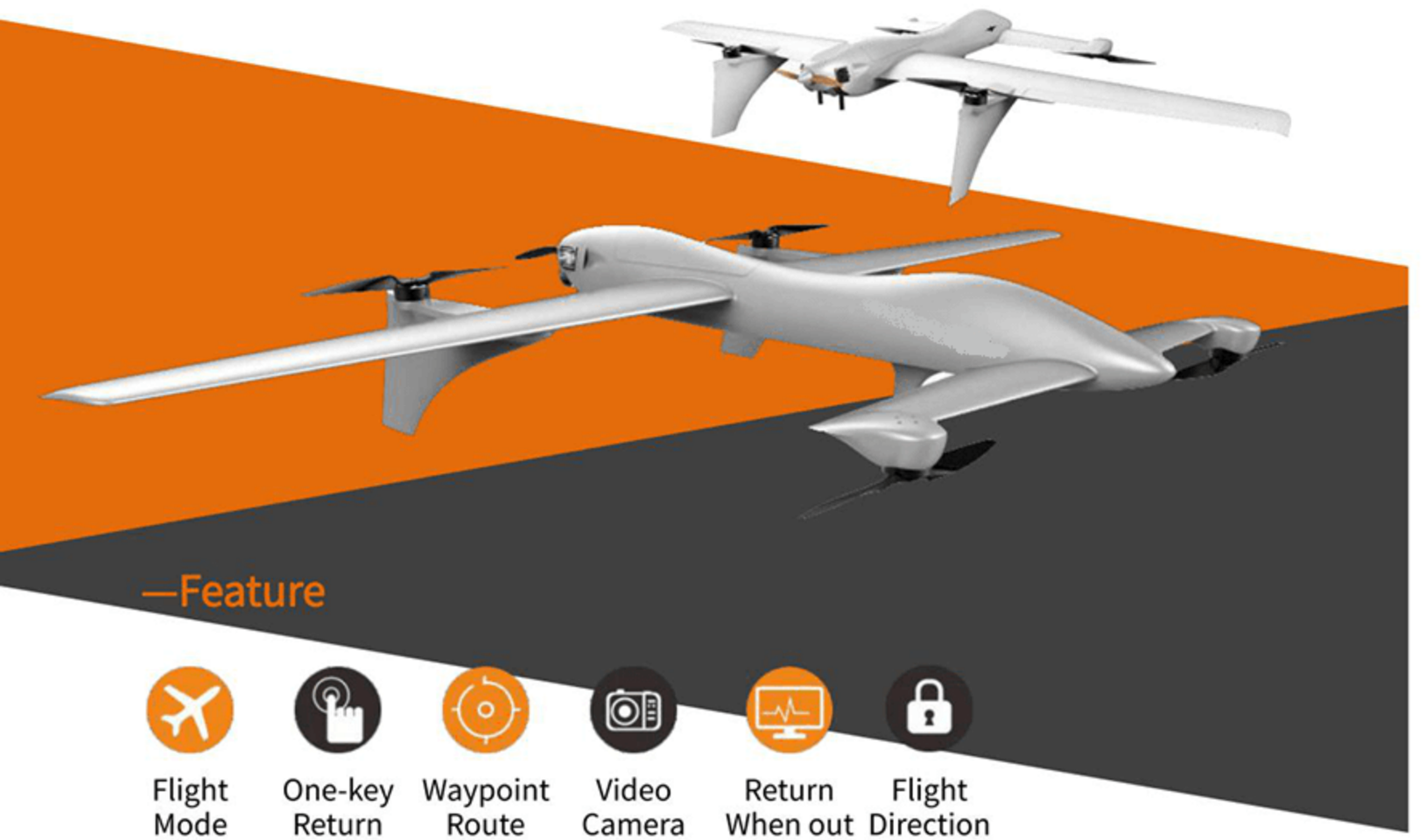
—Parameters

Wingspan	3800mm
Max payload	3kg
Taking-off weight	⩽28kg
Taking-off &landing	VTOL
Cruising speed	70-100km/h
Duration	60-90min
Carbon fiber composite material	

Max climb rate	5m/s
Max level speed at sea level	120km/h
Working height	＜4000m
Wind resistance	8.0-13.8m/s
Power system	battery
Optional payload	POD/PTZ camera
Suitable for long time long range flight	

—— Falcon B1

VTOL fixed-wing UAV



—Feature

Flight Mode Control

One-key Return

Waypoint Route Planning

Video Camera Control

Return When out of Control

Flight Direction Lock

—Parameters

Wingspan	3400mm	Stalling Speed	16m/s
Max payload	9kg	Working height	＜5000m
Taking-off weight	＜30kg	Wind resistance	Level 6
Taking-off &landing	VTOL	Navigation	GPS/GNSS
Cruising speed	25m/s	Power system	Hybrid
Duration	6-8h	Optional payload	POD/PTZ camera , Radar

——Falcon B2

VTOL fixed-wing UAV (hybrid)

—Feature

- Flight Mode Control
- One-key Return
- Waypoint Route Planning
- Video Camera Control
- Return When out of Control
- Flight Direction Lock

—Parameters

Wingspan	5325mm	Max climb rate	5m/s
Max payload	30kg	Max level speed at sea level	120km/h
Taking-off weight	＜130kg	Working height	＜4500m
Taking-off &landing	VTOL	Wind resistance	8.0-13.8m/s
Cruising speed	70-120km/h	Power system	Hybrid
Duration	8-9h（1.5-3kg）	Optional payload	POD/PTZ camera

—Falcon B3

VTOL fixed-wing UAV (hybrid)

—Feature

Flight Mode Control

One-key Return

Waypoint Route Planning

Video Camera Control

Return When out of Control

Flight Direction Lock

—Parameters

Wingspan	6970mm	Body length	3004mm
Max payload	50kg	Max level speed at sea level	120km/h
Taking-off weight	＜150kg	Working height	＜4500m
Taking-off &landing	VTOL	Wind resistance	13.8m/s
Cruising speed	70-120km/h	Power system	Hybrid
Duration	10-15h（1.5-3kg）	Optional payload	POD/PTZ camera

Application

Falcon C1 mounts multi-spectral camera, collects high-definition images of farmland and orchard, monitor the status of pests and diseases and builds archives for the growth of crops and trees. Users can read these historical data anytime and anywhere, which will help yield assessment and realize intelligent management of farmland data.

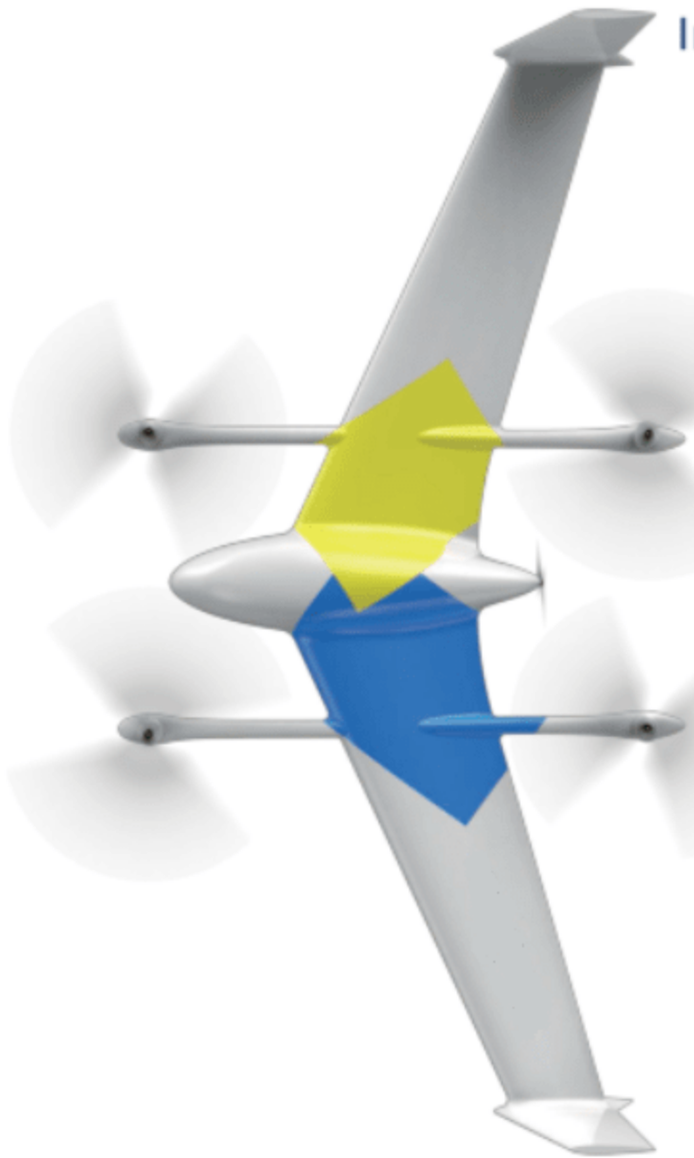


General Parameter

Take-off weight 5.5kg	Packing box size 110*60*30cm
Payload 800g	Working temperature -20~60℃
Cruising speed 21m/s	Ceiling 3000m
Endurance 90min	Control radius 30km
Wingspan 1.8m	Wind resistant capacity Level 7
Length 1.0m	Available payload Photoelectric Pod, Multispectral Camera, Surveying Camera
Battery 12000mAh	

Falcon C1

Industry Application

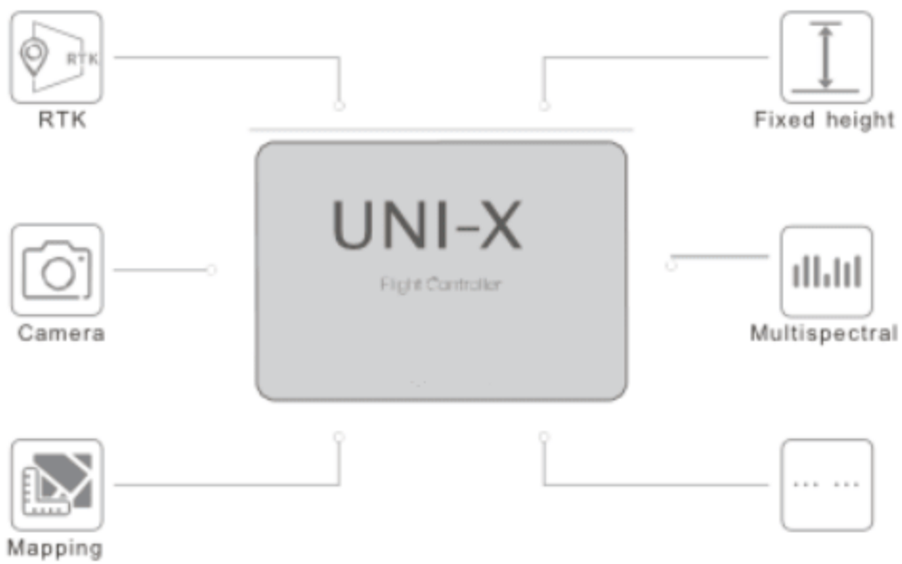


Intelligent Agriculture

Farmland Mapping

Efficient Operation

Flight Controller



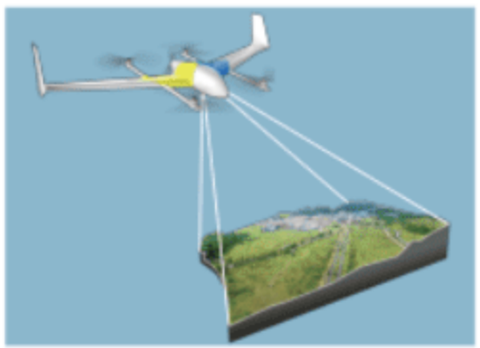
Support the expansion of rich accessories to

tap the unlimited potential of intelligent agriculture

Flight controller system has two control modes: multi-rotor and fixed-wing. It is easy to operate and can achieve one-key takeoff and landing. With the high reliability structure design, double redundancy IMU system, integrated airspeed, altitude, magnetic heading and other information, it will control the aircraft flight smoothly.

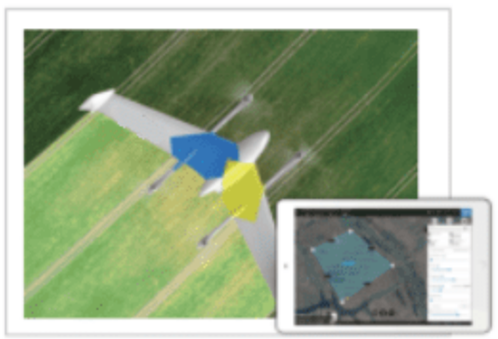
Precise Navigation for Plant Protection UAV

Before the plant protection UAV carried out large-scale farm operations，users can use Falcon C1UAV to measure farmland, and then generatehigh-definition map of farmland, which will be transmitted to cloud. High precision encrypted farmland map can be downloaded from the cloud anytime and anywhere by using ground station, and precise flight line can begenerated by map.



Efficient Tools for Surveying and Mapping Industry

Falcon C1 is easy to use, data acquisition can becompleted by one-key operation, and does notrequire professional pilot. Faster speed effectivelyimproves operational efficiency. it is not only greatly shorten the operation time and reduce theintensity of the operation, but also reduce thecost of labour greatly.



Data Acquisition for Intelligent Agriculture

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realize intelligent management of farmland data.

Reliable Platform for Industry Users

Falcon C1 Flight Platform can be customized bymounting multi-spectral camera, multi-zoom pod,light lidar or other equipment for diffe rentrequired.it provides surveillance, fire patrol, powerpatrol, urban planning, emergency monitoring,natural disaster assessment solution for publicsecur ity, fire protec tion and environmentalprotection departments.