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Gryphon Intro.

avilon intelligence Co., Ltd.

Gryphon Specification

Drone Parameters

Air Frame Dimensions	960 X 1100 X 700 mm	Hovering accuracy (Good GNSS Signal Outdoor)	Without RTK: Horizontal: +-1.5m；Vertical: +-0.8m With duo band L1/L2 RTK: Horizontal: +-0.1m；Vertical: +-0.1m
Air Frame Dimensions(Folded)	510 X 575 X 700 mm	RTK GPS Support Band	GPS：L1CA、L2C；Galileo：E1-B/C、E5b GLONASS：L1OF、L2OF；BeiDou：B1l、B2
Diagonal Wheelbase	1000mm	Max Rising Speed	5 m/s
Weight(without battery)	around 5 kg	Max Decline Speed	3 m/s
Max Takeoff Weight	12.5 kg	Max Cruise Speed	12 m/s
Max Payload Weight	4 kg	Maximum Tilt Angle	35 degree
Wind Resistant Level	5 level	Operation Method	Remote Controller, Tablet(Android)
Hovering Time	30 mins	Battery	One or Two 6S 16000mah Li-Po Battery
Max Controllable Distance	Anywhere with 4G Signal	Drone management	Login System, Drone Fleet Management System

Flight Controller System	avicon –- an avilon intelligence self built proprietary industrial level flight controller hardware and firmware
Functions	Stabilized(Manual)/ Altitude/ GPS Rate/ Way Point/ Taking Off/ Landing Mode
Safety Mechanism	GNSS Signal Monitoring　　　　　　　　　Go Home Button 4G Signal Monitoring　　　　　　　　　　Returning Home due to Losing Control Low Battery Warning　　　　　　　　　　Returning Home due to Low Battery

✅ Foldable, Easy to Move　　　✅ Outstanding Payload　　　✅ Intelligence Flight Mode

Gryphon Specification

Flight Control System

Core Device	avicon
IMU Sensor	Built in avicon
Control Updating Rate	400Hz
Features	Support Drone Fleet - Management System Support Payload Control
Takeoff and Landing System	Automation
Landing System Features	Vision Aided System Avoid Weak GNSS Signal Close to Ground
Redundancy System	Duo GNSS, Duo Compass
Information Security	TLS Encryption System
Data Storage	Built in 40 hr Data Storage Space with Frequency 200Hz
Trouble Shooting	Online System Checking Online Problem Solving

APP / Video Stream

Portable Device App	aviconGS
Communication Method	4G LTE / Wi-Fi
Video Stream	1080p 30fps / 720p 60fps
Delay	Less than 0.5 s
LTE Support Band	GSM/GPRS/EDGE UMTS/HSDPA/HSUPA (3G): 2100MHz LTE (4G): 700/900/1800MHz

Navigation and Aerial Filming

Max Way Point Numbers	700 points
High Accuracy Navigation System	Support GNSS RTK Navigation
Camera Control Mode	Fixed Distance/ Periodic/ Manual Mode
POS Data Storage	Auto Storage/ Download after Flight
POS Data Structure	Photo Name/ Longitude/ Latitude/ Barometric Altitude/ Yawing Angle/GPS Altitude
RTK Position Correction	Self Host RTK Correction Station NTRIP Correction (e.g. NLSC e-gnss)

Gryphon Ground Station

Gryphon's Features

- Diameter 1000mm

- Payload up to 4 kg

- Hover up to 30 mins

- Multifunction for Various Fields

- Remote Control

- Drone Fleet Management

- Easy to Maneuver

- Support GNSS RTK System

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RTK GNSS Systems
Centimeter level
positioning accuracy

6 rotors
High endurance up to
30 minutes

LTE
LTE system bring no
range restriction

Foldable Design
Save space during
transportation

Changeable Payload
Support multiple
payload up to 2kg

Full Autonomously Systems
With vision aiding landing systems,
drone can easily takeoff/land over
landing pad

Gryphon

Supported Drone Configurations

Gryphon is able to carry different types of equipment, such as RGB camera, thermal camera, cargo, and delivery system.
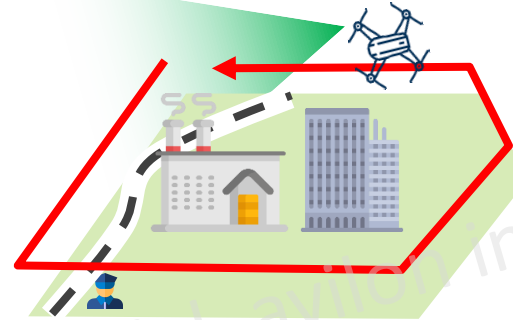

- Standard RGB

- Gremsy S1

- Delivery system

Various applications

Security

Automated perimeter survey

Agriculture

Autonomous perimeter scan
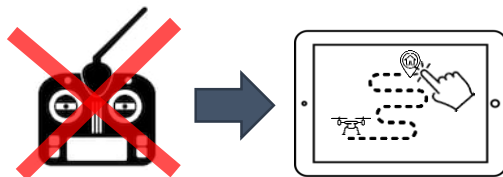
Disaster relief

3D map construction

Cargo delivery

avilon Drone System Features

The drone system is stable, easy to control, and ready to do the mission…
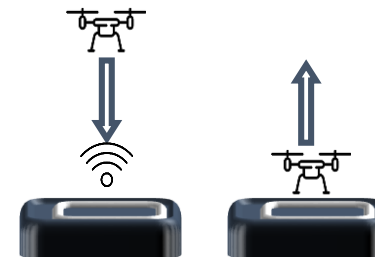
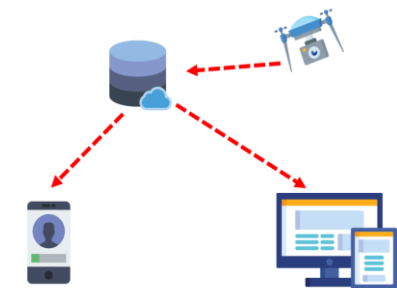**Tap to start your mission now**

Control by Tablet

4G communication

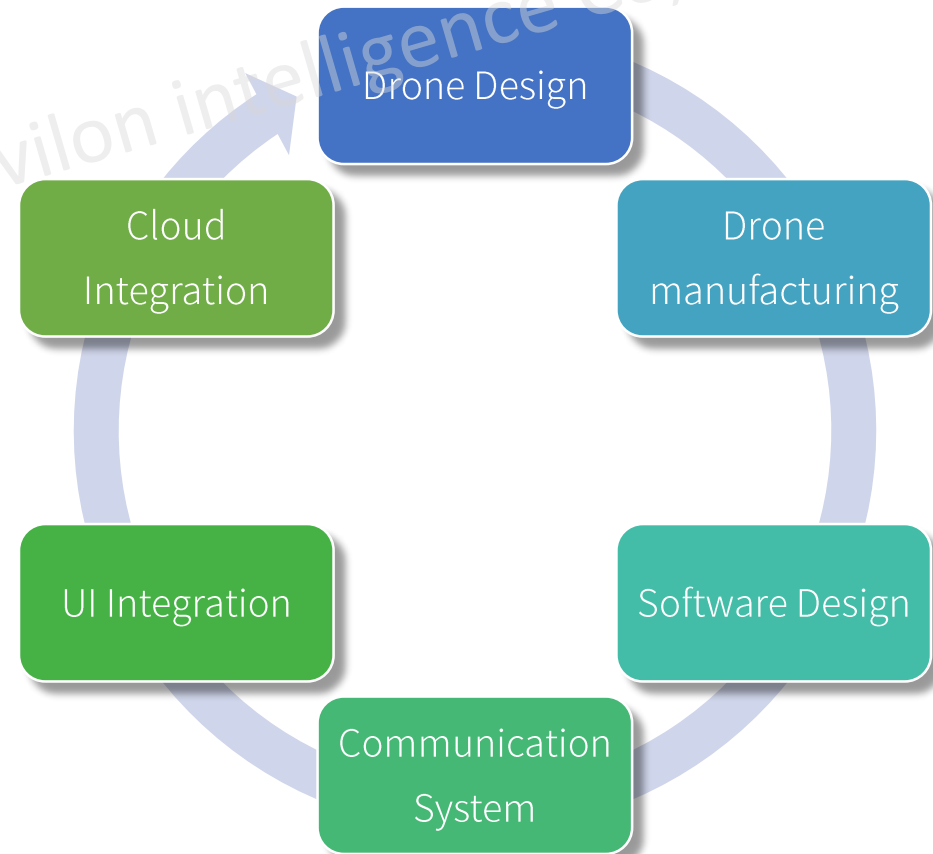Auto take off and landing system

Cloud data system

avilon - your drone solution provider

Who are we

Design House for Drone & IoT Industry

We are startup company profession in UAV flight stabilization, machine design, APP, etc. Our target is to develop fully internet controlled UAS with transparent operation to user from takeoff, operation to landing even recharge and repeat the process automatically.

Drone Design

Drone manufacturing

Software Design

Communication System

UI Integration

Cloud Integration

avilon's Capabilities

- UAS Design – Drone Design/Customization/Control System

- Embedded System - Hardware/Software Development

- PCB design and PCB assembly for mass production

- Online Connectivity

- Web/APP UI Development

How can we help you?

Contact us

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