



Drones and Related Modules Overview

2025 Aug.



Company Overview

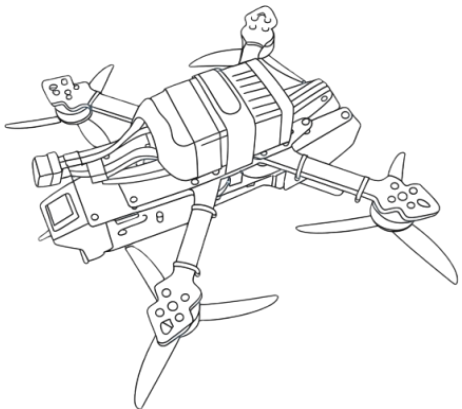
We are committed to developing logistics transportation solutions for special environments, marine areas, and high-altitude mountainous regions. And we can customize drone products.

Our company has developed multiple drone systems for applications such as reconnaissance, inspection, and high-capacity logistics.

We currently have capabilities in hardware and software development, including a development laboratory, a system assembly factory, a composite materials processing facility, and relevant testing equipment.

We independently develop the relevant flight control systems and application software and hardware.

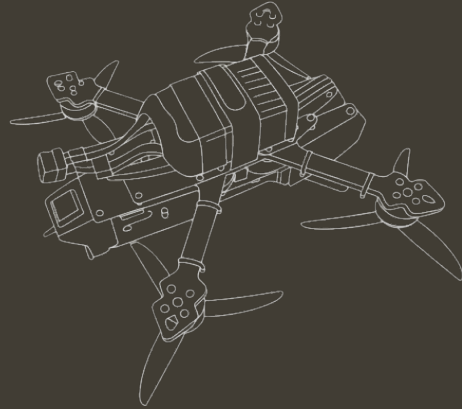
The entire system can use 100% non-China-made electronic components, and more than 70% of related hardware components are developed, designed, and manufactured in-house.





Drone Product Line

FPV



Sloth

Unloaded heavy-duty FPV

Hotot

Heavy-duty FPV

Koala

Heavy-duty FPV

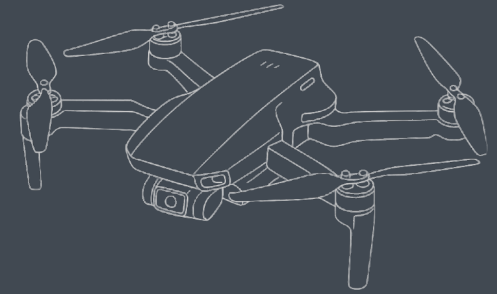
Consumer Quadcopter Drone

Ferret

Below 1KG Functional Drone

Owl

Above 1KG Functional Drone



Commercial Drone & VTOL



Venus

Heavy-duty Drone

August

Heavy-duty Drone

Jupiter

Heavy-duty Drone

Orion

Heavy-duty VTOL

Sloth unloaded heavy-duty FPV



- Net Weight <550g
- Payload >200g
- 7-inch propeller
- 700TVL camera
- Max. speed with load: >100km/hr
- Flying time > 10min
- W 180mm x L 180mm x H 90mm(including battery)
- Battery 3300mAh with 14.8V



Hotot heavy-duty FPV



- ▶ Net Weight: <450g
- ▶ Payload >150g
- ▶ 5- inch propeller
- ▶ 700TVL camera
- ▶ Max. speed with load: >100km/hr
- ▶ Flying time: > 10min
- ▶ W 155mm x L 155mm x H 70mm(including battery)
- ▶ Battery 2200mAh with 14.8V



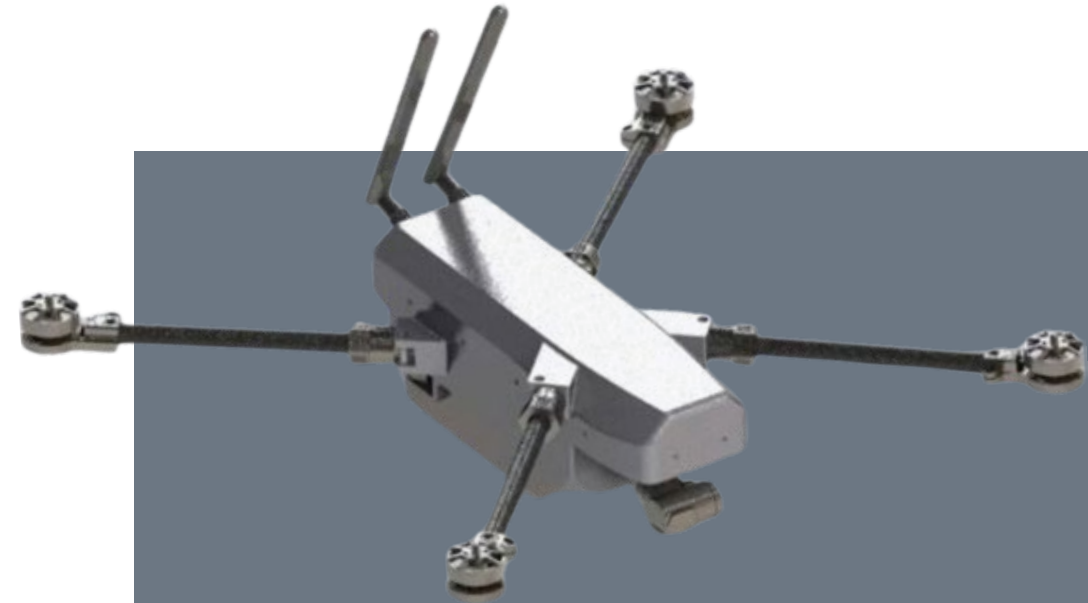
Koala heavy-duty FPV



- Net Weight <800g
- Payload >300g
- 9-inch propeller
- 700TVL camera
- Max. speed with load: >100km/hr
- Flying time: > 10min
- W 220mm x L 220mm x H 90mm(including battery)
- Battery 5000mAh with 14.8V



Ferret below 1kg functional drone



- Net Weight <1000g
- Payload >150g
- 9-inch propeller
- 4K/2K camera
- Flying time: > 35min
- W 220mm x L 220mm x H 90mm(including battery)
- Battery 5000mAh with 14.8V
- Other components - Laser, Thermal Camera

Owl above 1kg functional drone



- Net Weight <900g
- Payload >100g
- 9-inch propeller
- 4K/2K camera
- Flying time > 35min
- W 220mm x L 220mm x H 90mm(including battery)
- Battery 5000mAh with 14.8V
- Other component - Laser, Thermal Camera



Venus heavy-duty drone



Dimension	400mm(L)x460mm(W)x205mm(H)
Operational Dimension(excluding propeller)	730mm(L)x750mm(W)x205mm(H)
Folding dimension(excluding propeller)	370mm(L)x175mm(W)x205mm(H)
Folding dimension (including propeller)	700mm(L)x175mm(W)x205mm(H)
Wheelbase	550mm
Propeller size	13inch
Net weight	1795g
Flying time	40 Min(Net weight) 25 Min(405g load)
Max. total weight	2200g
Max. speed (horizontal and in load)	12 ^{m/s}
Max.Speed (in net weight)	14 ^{m/s}
Max. speed (Vertical)	3 ^{m/s}
Operational temperature	-30°C~60°C
Battery capacity	10000mAh
Operational voltage	16.8v
Wind resistant	Beaufort scale 5 (< 10.7 ^{m/s})
Max. slop degree	25°
Flying mode	Manual 、 GPS mode 、 LTE mode

Visible Light Pixel/ Focal length /FOV	5M @ 30fps / 3.5mm / 83.4°
Thermal Image Pixel	640X512 @ 30fps / 9.1mm / 47.8°X38.6°
Thermal Image Distance	1Km
Ranging Detector	5m to 1Km
Resolution	+/- 1m
Ranging Detector Frequency	>1Hz

Camera Specification (Optional)

August 4C heavy-duty drone



Dimension	492mm(L)x550mm(W)x170mm(H)
Operational Dimension(including propeller)	740mm(L)x815mm(W)x170mm(H)
Wheelbase	650mm
Propeller size	15inch
Net weight	2500g
Flying time	46 Min(Net weight) 10 Min(2500g load)
Max. total weight	5000g
Max. speed (horizontal and in load)	12 m/s
Max.Speed (in net weight)	14 m/s
Max. speed (Vertical)	3 m/s
Operational temperature	-30°C~60°C
Battery capacity	10000mAh
Operational voltage	22.2v
Wind resistant	Beaufort scale 5 (> 10.7 m/s)
Max. slop degree	25°
Flying mode	Manual 、 GPS mode 、 LTE mode

Camera Specification (Optional)

Visible Light Pixel/ Focal length /FOV	5M @ 30fps / 3.5mm / 83.4°
Thermal Image Pixel	640X512 @ 30fps / 9.1mm / 47.8°X38.6°
Thermal Image Distance	1Km
Ranging Detector	5m to 1Km
Resolution	+/- 1m
Ranging Detector Frequency	>1Hz



Venus heavy-duty drone



Dimension	500mm(L)x540mm(W)x235mm(H)
Operational Dimension(including propeller)	770mm(L)x850mm(W)x235mm(H)
Folding dimension(including propeller)	565mm(L)x280mm(W)x235mm(H)
Folding dimension (excluding propeller)	480mm(L)x280mm(W)x235mm(H)
Wheelbase	650mm
Propeller size	14inch
Net weight	2775g
Flying time	40 Min(Net weight) 12 Min(2000g load)
Max. total weight	5000g
Max. speed (horizontal and in load)	12 m/s
Max.Speed (in net weight)	14 m/s
Max. speed (Vertical)	3 m/s
Operational temperature	-30°C~60°C
Battery capacity	10000mAh
Operational voltage	22.2v
Wind resistant	Beaufort scale 5 (> 10.7 m/s)
Max. slop degree	25°
Flying mode	Manual 、 GPS mode 、 LTE mode



Mars 2 heavy-duty drone



Dimension	900mm(L)x900mm(W)x450mm(H)
Operational Dimension(including propeller)	960mm(L)x960mm(W)x450mm(H)
Folding dimension(excluding propeller)	740mm(L)730mm(W)x450mm(H)
Folding dimension (including propeller)	640mm(L)x175mm(W)x205mm(H)
Wheelbase	1120mm
Propeller size	24inch
Net weight	11700g
Flying time	31 Min(Net weight) 28 Min(2300g load) 22 Min(4300g load)
Max. total weight	16000g
Max. speed (horizontal and in load)	12 m/s
Max.Speed (in net weight)	14 m/s
Max. speed (Vertical)	3 m/s
Operational temperature	-30°C~60°C
Battery capacity	22000mAh
Operational voltage	44.4v
Wind resistant	Beaufort scale 5 (< 10.7 m/s)
Max. slop degree	25°
Flying mode	Manual 、 GPS mode 、 LTE mode

Visible Light Pixel/ Focal length /FOV	5M @ 30fps / 3.5mm / 83.4°
Thermal Image Pixel	640X512 @ 30fps / 9.1mm / 47.8°X38.6°
Thermal Image Distance	1Km
Ranging Detector	5m to 1Km
Resolution	+/- 1m
Ranging Detector Frequency	>1Hz

Camera Specification
(Optional)



Mars 3 heavy-duty drone



Dimension	900mm(L)x900mm(W)x450mm(H)
Operational Dimension(including propeller)	960mm(L)x960mm(W)x450mm(H)
Folding dimension(excluding propeller)	740mm(L)x730mm(W)x450mm(H)
Folding dimension (including propeller)	640mm(L)x175mm(W)x205mm(H)
Wheelbase	1120mm
Propeller size	24inch
Net weight	11700g
Flying time	31 Min(Net weight) 28 Min(2300g load) 22 Min(4300g load)
Max. total weight	16000g
Max. speed (horizontal and in load)	12 m/s
Max.Speed (in net weight)	14 m/s
Max. speed (Vertical)	3 m/s
Operational temperature	-30°C~60°C
Battery capacity	22000mAh
Operational voltage	44.4v
Wind resistant	Beaufort scale 5 (< 10.7 m/s)
Max. slop degree	25°
Flying mode	Manual 、 GPS mode 、 LTE mode

Visible Light Pixel/ Focal length /FOV	5M @ 30fps / 3.5mm / 83.4°
Thermal Image Pixel	640X512 @ 30fps / 9.1mm / 47.8°X38.6°
Thermal Image Distance	1Km
Ranging Detector	5m to 1Km
Resolution	+/- 1m
Ranging Detector Frequency	>1Hz

Camera Specification
(Optional)



Jupiter heavy-duty drone



Dimension	900mm(L)x900mm(W)x450mm(H)
Operational Dimension(including propeller)	1290mm(L)x1470mm(W)x680mm(H)
Folding dimension (including propeller)	1900mm(L)x2800mm(W)x680mm(H)
Wheelbase	1400mm
Propeller size	24inch
Net weight	16800g
Flying time	33 Min(Net weight) 25 Min(3000g load) 10 Min(13000g load)
Max. total weight	30000g
Max. speed (horizontal and in load)	12 m/s
Max.Speed (in net weight)	14 m/s
Max. speed (Vertical)	3 m/s
Operational temperature	-30°C~60°C
Battery capacity	22000mAh
Operational voltage	44.4v
Wind resistant	Beaufort scale 5 (< 10.7 m/s)
Max. slop degree	25°
Flying mode	Manual 、 GPS mode 、 LTE mode

Visible Light Pixel/ Focal length /FOV	5M @ 30fps / 3.5mm / 83.4°
Thermal Image Pixel	640X512 @ 30fps / 9.1mm / 47.8°X38.6°
Thermal Image Distance	1Km
Ranging Detector	5m to 1Km
Resolution	+/- 1m
Ranging Detector Frequency	>1Hz

**Camera Specification
(Optional)**



Orion heavy-duty VTOL

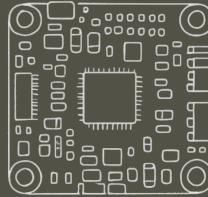


TBD



Components Product Line

Electronic Modules



Flying computer

GPS module

Electronic speed controller

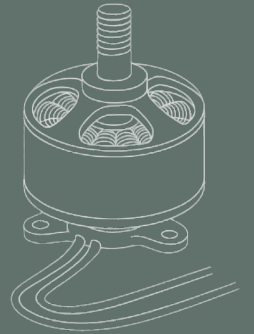
Power distributer

Motors

FPV motor

Small drone motor

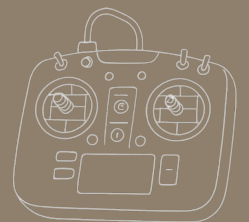
Middle drone motor



Remote Controller

MD-1

MD-2





Flying computer H7



Main FMU Processor: STM32F765

- 32 Bit Arm® Cortex®-M7, 216MHz, 2MB memory, 512KB RAM

On-board sensors

- Two Accel/Gyros
- Magnetometer: IST8310
- Barometer: MS5611

GPS

GPS/GLONASS receiver; integrated magnetometer IST8310

Interfaces

- 8 x PWM outputs
- 4 x dedicated PWM/Capture inputs on FMU
- 3 x general purpose serial ports
- 2 x I2C ports
- 3 x SPI buses
- 1 x CANBuses for CAN ESC



Flying computer F4



Main FMU Processor: STM32F4XX

- 32 Bit Arm® Cortex®-M4, 512KB RAM

On-board sensors

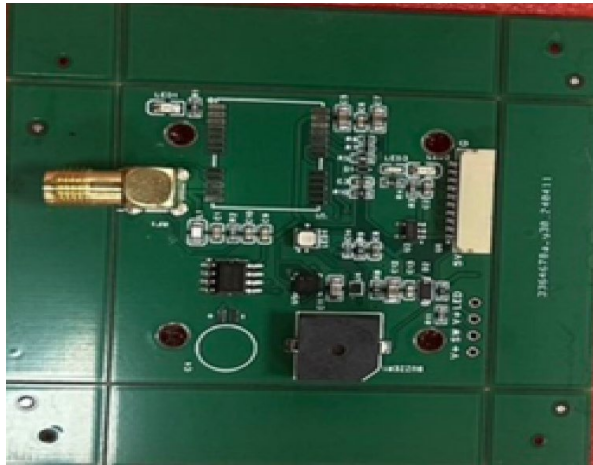
- One Accel/Gyros
- Barometer: MS5611

Interfaces

- 6 x PWM outputs
- 4 x dedicated PWM/Capture inputs on FMU
- 3 x general purpose serial ports
- 1 x I2C ports



GPS module

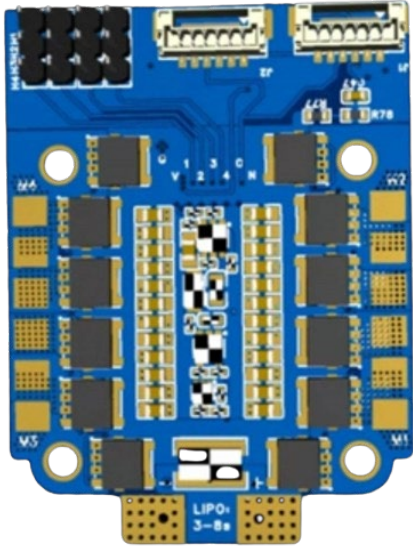


Specification details

- Support BDS 、 GPS 、 GLONASS 、 QZSS systems
- Precision is less than 2.5 meters
- Support USB interface
- 50 Ohm impedance.



ESC module



Specification details

- Support 4 channels power distribution and the maximum current in each channel is 50A. The average current in each channel is 40A
- The frequency of PWM signal is between 50Hz to 450Hz.
- Less than 40g



Motors



Type: MY11500-330KV6S

Max. Thrust >11.5Kg

Max. Sustained Thrust 4~6Kg

Weight <380g

IP45



Type: MY3500-650KV6S

Thrust: >3.5Kg

Max. Sustained Thrust:

Weight <160g

IP45

Suitable for 13 ~15 inch propeller



Type: MY1750-360KV

Max. Thrust 1750g

Weight <155g

IP45

Suitable for 13 ~15 inch propeller



Type: MY3500-650KV

Max. Thrust 1650g

Weight <750g

IP45

Suitable for 10 ~14inch propeller



MD-1 Remote Controller

- The distance is 1.2Km on the ground.
- Android based
- Myson GCS (MyGCS) system
- 4.5 inch LED monitor
- More than 10Km on the sea.
- 2K camera and Ir camera (optional)



MD-2 Remote Controller

- The distance is 1.2Km on the ground.
- Android based
- Myson GCS (MyGCS) system
- 4.5 inch LED monitor
- More than 10Km on the sea.
- 4K camera



Thank You