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MMC
MICROMULTICOPTER AVIATION

PRODUCT CATALOG

Conquer the Sky for Human's Good

About MMC

We are a leading company in industrial UAV. There are always some works that are costly, dangerous, or even beyond our limits, we strive to think ahead and change it all. With our ten years' experience in UAV industry, we have come to integrate the industry chain so that every part of the manufacturing is within our control for making high performance UAV products and by so doing we are able to greatly reduce the cost for customers. Our products include UAV, flying platform, flight control system, motor, payload and other accessories. We are now helping clients from all over the world to finish their work in a safer and more efficient way with lower cost. These works fall in such areas as inspection, public safety, search & rescue, surveying & mapping, environmental protection.

We are committed to boosting automation with our high-performance UAV products so people can work in greater safety, by higher efficiency and with lower cost. It is our never-ending quest to conquer the sky for human's good.

ISO International Organization for Standardization

Co-leader Member of ISO UAV Experts Group

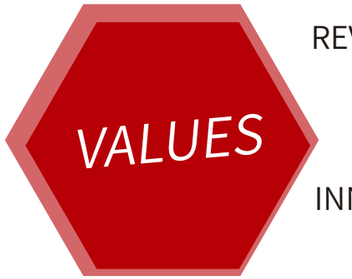
UASA

The Vice Director Member of the UASA

SAC 中国国家标准化管理委员会 Standardization Administration of the P.R.C.

The Only UAV Expert of SAC

Human progress follows a revolution in the way we work. Automation is the revolution of our age through which we are able to lower risks, reduce cost and improve productivity at our work. MMC, with its high-performance UAV and industry chain integration advantage, is committed to boosting automation level so people can work in greater safety, with lower cost and by higher efficiency.



REVOLUTION

We devote ourselves to revolutionizing the way people work for increased safety, improved efficiency and reduced cost by integrated high-performance UAV. This mission guides all of our members' actions.

INNOVATION

Innovation is the foundation of our mindset. We purse technology innovation to support our need for revolutionizing the way we work. We embrace fresh and creative ideas for product design to challenge increasingly difficult tasks.

Conquer the Sky for Human's Good

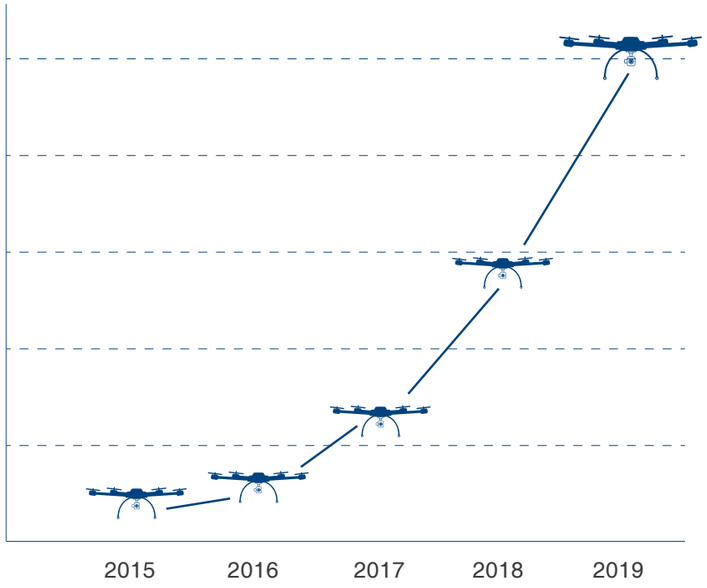
HIGH PERFORMANCE

We integrate industry chain, conduct thorough quality management and adopt innovative technology to achieve high performance products. We manufacture each product with high-performance standards so as to complete people's desired tasks.

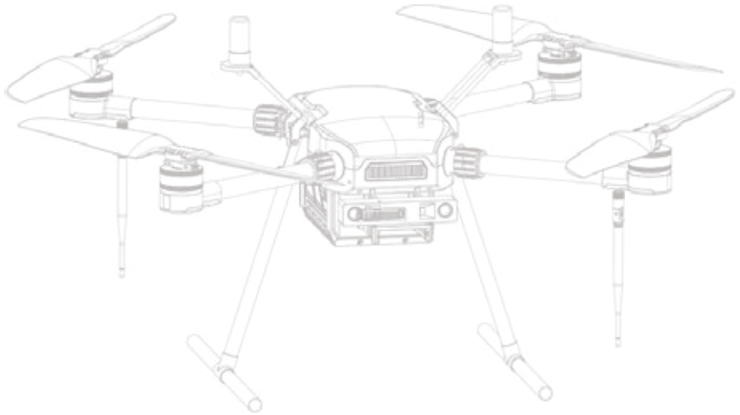
PIONEER

We take every chance and risk to apply UAV into new areas. We always think ahead to break new grounds and set new standards.

Soaring Revenue Growth



MMC annual revenue has doubled for five consecutive years



Development Path

2009
Established Shenzhen MMC team

2015
Merged 9 companies and built the industrial UAV supply chain. Succeeded in the Series A financing.

2016
Released the first hydrogen-powered multi-copter UAV with 4-hour flight time. Completed the Series B financing.

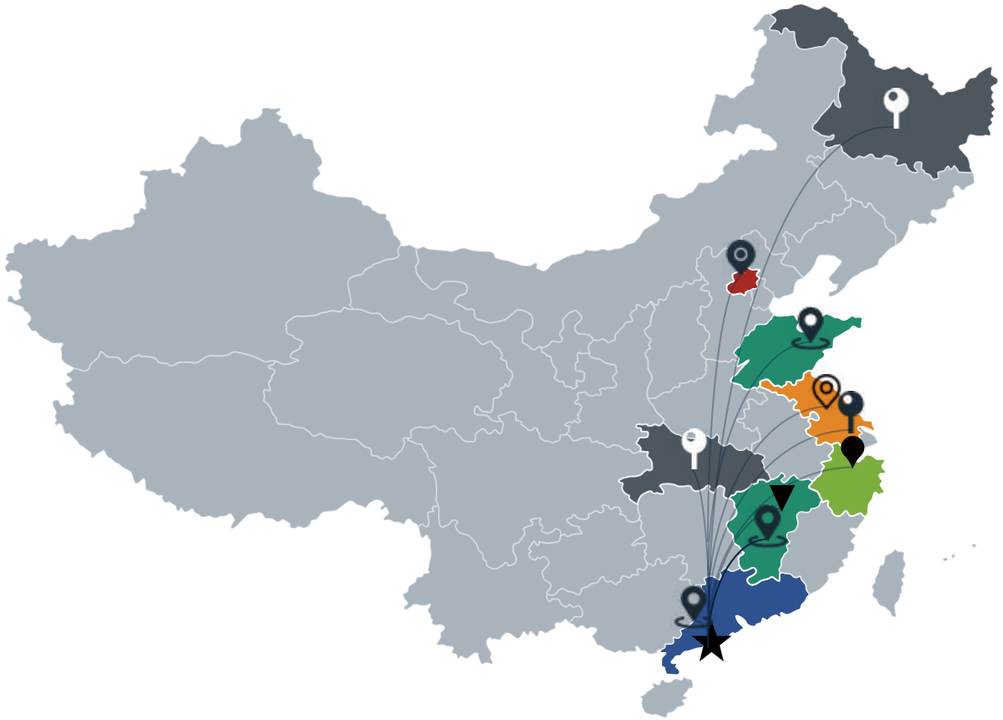
2017
Completed the Series C financing, 30 Million USD in total.

2018
Built the MMC Global Operation Center and Global R&D Center in Jiashan, Zhejiang province

2019
Released 4 industrial drones in the field of surveying and mapping; realized "5G drones + programmed operations"

10-YEAR
Research and development experience

Industrial Distribution



- R&D Center
- Global Operation Center
- UAV Academy
- Production Center
- Police Department Partner
- University Partner
- Sales center

Industry Chain Integration

We integrated design, R&D, production with quality management to guarantee that our products are of premium-performance and cost-effective.

Design

Professional industrial design team to guarantee the foundation for premium quality products

Team members with sophisticated industry experience to ensure high efficiency

Quick response to customers' needs and agility to design customized products

R&D Talent

Academician Workstation with Prize-Winning Scientists

R&D Center with 200+ Members

Big Data Team of 40 people

Doctor of Mechanical and Aerospace Engineering from University of California to develop hydrogen fuel cell

R&D Technology

Carbon fiber unibody airframe

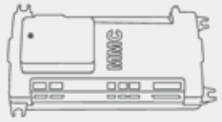
Carbon fiber has the characteristics of low density and high strength, a full carbon fiber airframe has the characteristics of extremely lightweight, rainproof, dustproof and high-temperature resistance, along with the greatly improved flight performance.

Standard payload connector

With the standard payload connector, regardless of how different a UAV platform is, instant payload assemble and disassemble can all be realized.

UAV automatic inspection technology

Through the automatic inspection technology of the UAV, the gained operation data can be quickly summarized, organized and analyzed to form a complete set of data reports and operation reports, which provide a basis for command decision and problem-solving.



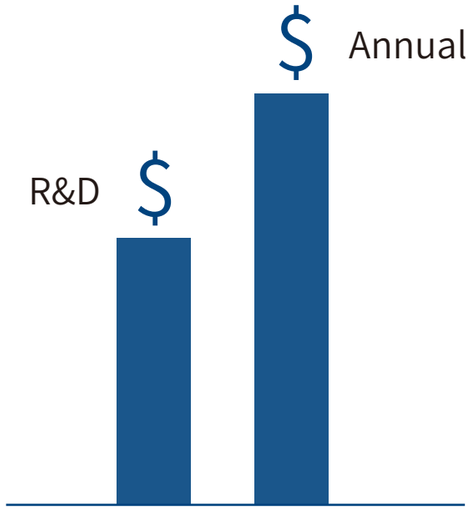
Flight control system

Independently research and develop industrial-grade UAV flight control system, automatically maintain the aircraft's normal flight attitude and planned route flight, support multiple sets of sensor redundancy backup, and provide multiple guarantees for UAV's flight safety.

UAV cloud control and management technology

Through the cloud control and management platform, real-time monitoring, management, scheduling and visual command functions of the UAVs can be realized through the access platform, and the highly efficient use of resources can be achieved, which plays a significant role in the construction of information technology in the industry.

R&D Investment



15Million USD

Annual R&D Investment Amount

Production

We have three production centers in China, covering a total area of over

30,000㎡

Guangdong Province

Shandong Province

Jiangxi Province

Quality Management

High-low temperature test of the aircraft platform

Tensile test

Corrosion resistance test

8S Standard Management

MMC has established a complete organizational structure, clear responsibilities of each department, production and operation is in strict accordance with the 8S standard so as to be qualified for high-level production and test.

Comprehensive testing

We set up a Lab center to conduct comprehensive testing of the company's products.

ISO9001/14000/45001

MMC has passed ISO9001 quality management system certificate, ISO14000 environmental management system certificate, ISO45001 occupational health and safety management system.

Motor torque speed test

Arm horizontal detection

Electrostatic test

Wind resistance test

Rainproof test

Anti-vibration performance test

Products

LiPo Battery Drone

Skylle 1550
Skylle 1550P
Skylle 1550S
Griflion M8
Jadger M1
Notuzi X85
Notuzi B90
X6

SKYLLE 1550

Excellent long endurance and heavy payload capacity empowers Skylle 1550 an outstanding industrial drone. With a maximum flight time of 75 minutes and a maximum payload of 10kg, Skylle 1550 is a reliable high-performance multi-rotor flight platform for various industrial applications. It is the first-choice drone model for the State Grid Corporation of China being applied mostly for power line inspection, purchased for years by the Public Security and Firefighting Department due to the multiple purpose payload compatible function, the Sinopec, the China Southern Power Grid Co., Ltd. (CSG), and the China Energy Investment Corporation (China Energy) for wind energy inspection. Equipped with the orthographic camera, the oblique camera, and the 3D laser radar, Skylle 1550 is ready for high-precision mapping tasks.

Specifications

Basic

Mode	Skylle 1550
Aircraft type	Hexacopter
Wheelbase	1550mm
Airframe material	Carbon fiber and composite materials
Package size	400*730*930 mm（standard）/ 700*700*300 mm+110*45*20 mm（portable）
Weight (without batteries or payload)	6.5kg

Performance

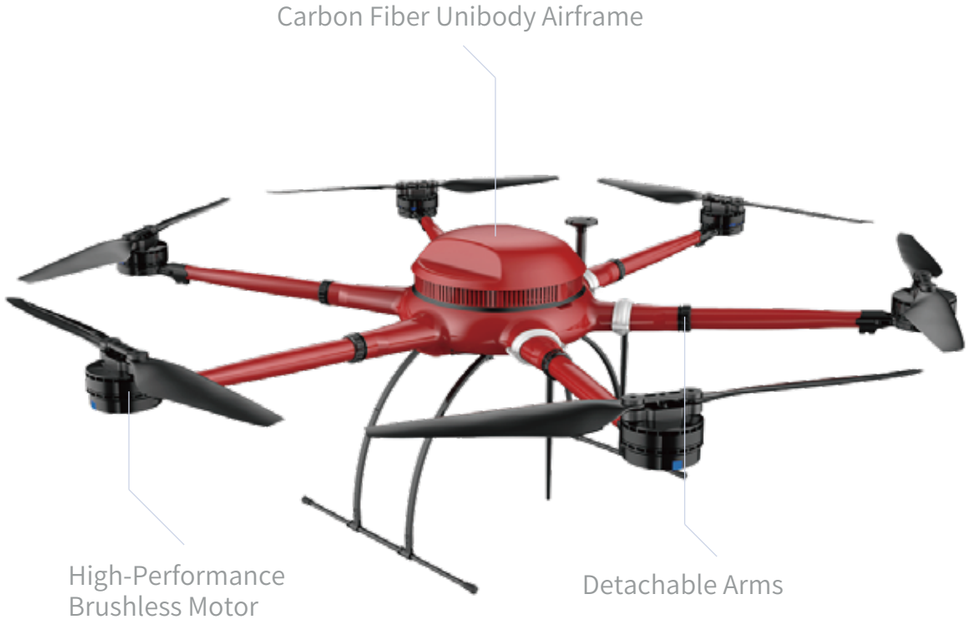
Assemble time	2 minutes and 40 second
Max. take-off weight	21 kg
Max. payload	10 kg
Max. climb speed	0-4 m/s
Cruise speed	10 m/s
Max. flying speed	15 m/s
Battery capacity	25000 mAh*12S LiHV
Flight time (without load)	75 min
Flight distance	14 km
Max. control radius	10 km
Max. altitude AMSL	4000 m
Hovering accuracy	vertical ±1 m, horizontal±1.5 m
Flight mode	Fully automatic, semi-autonomous
Return	One-button return, lose control return, low battery return
Others	Autonomous takeoff and landing, automatic route, black box function.

Environment

Max. wind resistance	12m/s(Level6)
Operation temperature	-20～65 ℃
IP rating	IP54

SKYLLE 1550P

With high reliability and portability, Skylle 1550P adopts a new generation power system to improve load capacity and flying performance. Equipped with Atheno flight control, HD low latency video transmission, high-voltage battery, it is compatible with multiple payloads and has a 15kg load capacity. Skylle 1550P could provide high-performance flying platform for industrial aerial and drone industry.



Specifications

Basic

Mode	Skylle 1550P
Aircraft type	Hexrcopter
Wheelbase	1550 mm
Height	543 mm
Weight	8.8 kg(no battery)
Package size	400*730*930（including wheel） mm

Performance

Battery capacity	22000 mAh*6s*2
	22000 mAh*6s*4
Free-load max flight Time	45 min
	65 min
Max take-off load	34 kg
Loaded flight time	25 min(@15 kg)
Max payload	15 kg
Cruise speed	0-15 m/s
Climb speed	0-4 m/s
Max. altitude AMSL	4000 m
Network video transmission distance	10 km
Remote control distance	10 km

Environment

Wind resistance	12 m/s (Level6)
Operation temperature	-20 ℃~60 ℃
Operation humidity	10%-90% no condensation
IP rating	IP54
EMI	100 A/m (PFMF)

SKYLLE 1550S

Skylle 1550S features new network video transmission solution that allows for video transmission via public network without distance limit. Equipped with redundancy design flight controller, new HD network video transmission, new payload quick release solution, Skylle 1550s is compatible with previous payloads and web-version payloads. With a maximum load of 12 kg and flight time of 90 minutes, this drone guarantees a higher-performance and longer flight time operation.

Specifications

Basic

Mode	Skylle 1550S
Aircraft type	Hexrcopter
Wheelbase	1550 mm
Height	543 mm
Weight	6.3kg(no battery)
Package size	400*730*930（including wheel） mm

Performance

Battery capacity	22000 mAh*6s*2
	22000 mAh*6s*4
Free-load max flight time	62 min
	80 min
Max take-off load	23 kg
Max payload	12 kg
Cruise speed	0-15 m/s
Climb speed	0-4 m/s
Max. altitude AMSL	4000 m
Network video transmission distance	10 km
Remote control distance	10 km

Environment

Wind resistance	12 m/s (Level 6)
Operation temperature	-20 ℃~60 ℃
Operation humidity	10%-90% no condensation
IP rating	IP54
EMI	100 A/m (PFMF)

GRIFLION M8

Griflion M8 is a vertical take-off and landing (VTOL) fixed-wing UAV with the V-shape tail which is made of composite material. Griflion M8 is capable of long-distance cruise flying, features long duration time, fast cruising speed, and high working efficiency, etc. Griflion M8 is compatible with the orthographic camera, the oblique camera, and electro-optical pod to run a high precision surveying or patrol mission.

Specifications

Basic

Model	Griflion M8
Takeoff and landing type	VTOL
Body material	Carbon fiber and composite material
Wingspan/body length	2500 mm / 1486 mm
Net weight	5.5 kg

Performance

Max. takeoff weight	12 kg
Max. payload weight	1~2 kg
Max. climb speed	7 m/s
Efficiency cruise speed	90 Km/h
Max. flight speed	126 Km/h
Flight time	150 min
Max. flight distance	200 km
Control radius	15 km
Max. altitude AMSL	5000 m
VTOL switch altitude	120 m
Positioning accuracy	1cm±1pp m
Positioning system	RTK+PPK(optional)
RTK/PPK update frequency	5 Hz, Up to 100 Hz
Others	Auto takeoff and landing, autopilot, the black box function

Transport

Drone assemble time	5 min (by a single operator)
Drone disassemble time	10 min (by a single operator)

Environment

Max. wind resistance	12 m/s (Level6)
Working temperature	-20～60 ℃
IP level	IP54

JADGER M1

- Compact five-lens design, higher efficiency in surveying and mapping
- Route planning and return-to-home function
- Flight time up to 25 min with an improved structure design
- Suitable for terrain and low-rise buildings surveying
- Effective data handling with advanced photo storage and naming rules

Specifications

Specifications

Model	Jadger M1
Size	520 x 455 x 295 mm
Max. flight time	25 Min
Weight (battery included)	1633 g
Battery	4S 5250 mAh 15.2V LiPo
Charger	SC4000-4H
Ground station	ST16S
Max. altitude AMSL	500 m
Max. rotation rate	120°/s
Max. roll angle	35°
Max. climb speed	4 m/s
Max. descend speed	2.5 m/s

Payload

Dimension	112*68*74.5 mm
Weight	390 g
CMOS quantity	5 pcs
Maximum pixels	12 MP*5
Focal length	4.3 mm
Oblique angle	38°
Minimum exposure interval	1.3s、1.5s、1.8s or 2.0s
Exposure mode	Isochronal E xposure
Power supply mode	Unified Power Supply
Battery	5500mAh pluggable battery
Battery endurance	≤2.5 h
GPS	Customized External GPS Components
Total storage capacity	160 G
Operation mode	Touch Screen Display

NOTUZI X85

Notuzi X85 drone is portable with a small size, detachable landing gears and fold-able arms. By adopting an all-purpose plug-and-play connector that is compatible with different payloads including orthographic camera, the oblique camera, the zoom camera, and the thermal camera. The Notuzi X85 UAV is available for various missions such as survey and mapping, firefighting, public security, search and rescue,inspection, etc.

Specifications

Basic

Model	Notuzi X85
Aircraft type	Quadcopter
Wheelbase	850 mm
Height	500 mm
Weight	3.1 kg
Package size	850*450*270 mm

Performance

Max. take-off weight	9 kg
Max. payload weight	3 kg
Battery	22000 mAh intelligence battery
Max. flight time (without payload)	50 min
Cruise speed	0~20 m/s
Climb speed	0~6 m/s
Max. altitude AMSL	5000 m
Communication distance	5000 m

Environment

Wind resistance	12 m/s (Level6)
Working temperature	-20 ℃~45 ℃
Storage temperature	-30 ℃~70 ℃
IP rating	IP43
EMI (Electromagnetic interference resistance)	100 A/m PFMF (power frequency magnetic field)

NOTUZI B90

Notuzi B90 drone is portable and small-sized industrial level drone with detachable landing gears and foldable arms. By adopting an all-purpose plug-and-play connector that is compatible with over 20 payloads including orthographic camera, the oblique camera, the zoom camera, and the thermal camera, the Notuzi B90 is available for various missions such as survey and mapping, powerline inspection, surveillance and search& rescue.

Specifications

Basic

Model	Notuzi B90
Aircraft type	Quadcopter
Wheelbase	920 mm
Height	500 mm
Weight	3.7 kg
Package size	670*535*330 mm

Performance

Max. take-off weight	9 kg
Max. payload weight	3 kg
Battery	22000 mAh Li-Po
Max. flight time (without payload)	45 min
Cruise speed	0~15 m/s
Climb speed	0~4 m/s
Max. altitude AMSL	5000 m
Communication distance	Up to 10 km
Positioning system	GPS, RTK(Optional)

Environment

Wind resistance	10m/s(level 5)
Working temperature	-20 ℃~60 ℃
Storage temperature	-30 ℃~70 ℃
IP rating	IP54

X6

X6 is an industrial hexacopter UAV system specially designed for power stringing and power inspection. It features carbon fiber airframe, foldable arms design, and quick-release landing gear to make sure the convenience of the drone's assembling and transportation. X6's outstanding payload capacity and duration time are guaranteed by its power system which is made up of high efficiency disk type motor matched with high efficiency carbon fiber propeller.

Specifications

Basic

Model	X6
Type	Hexacopter
Wheelbase	1200 mm
Height	540 mm
Net weight	6 kg
Standard package size	665×570×800 mm (Including wheel)

Performance

Battery	22000 mAh×6S LiHV
Net Weight	8.4 kg
Max. take-off weight	12 kg
Max. payload capacity	3 kg
Max. flight time (without payload)	34 min
Cruise speed	0~15 m/s
Climb rate(AMSL)	0~4 m/s
Max. altitude AMSL	4000 m
Video transmission Distance	10 km
Remote control distance	10 km

Environment

Wind resistance	12 m/s (Level6)
Working temperature	-20 ℃~60 ℃
Working humidity	10%-90% (No Condense)
EMI	100 A/m(PFMF)

Ground Stations

Etlas Neo II

Etlas Mobile

Photon A10

Etlas Neo II

Etlas Neo II is a new generation of multifunctional and highly integrated ground station that is resistant to water, dust and shock in industrial level. Etlas Neo II uses a dual touch screen design, both of which can achieve 10-point touch. It integrates all the functions of image transmission system, data transmission system, handheld remote, image display system, and industrial laptop.

SPECIFICATIONS

Size	L307*W407*H102mm
Weight	8.4±0.3kg
Material	Aluminum Alloy
Operating System	Windows10 Professional 64 Bit
Processor	Intel Core i7
Operating LCD	12.1 inch, resolution 1280*800, 1500 nit Luminance , 10-point touch screen
Image Transmitter LCD	15.6 inch, resolution 1920*1080, 400nit Luminance, 10-point touch screen
Battery Life	>4h
Charging time	3h
Function	-20℃~60℃
Storage	-20℃~70℃

Etlas Mobile

MMC Etlas Mobile handheld ground station controller is a portable and durable device. Its body is made of aluminum alloy. It integrates drone control, payload control, image display, route planning and other functions. Reserved UART serial port can combine it with RTK, 4G dongle, and external device communication.

SPECIFICATIONS

Size (L*W*H)	319x143x52 mm
Weight	1.5 kg
Material	Plastic
Computer	Android 7.1, Six-Core Processor
Screen	7 inch
Battery	11.1 V,8000 mAh
Video Output	HDMI
Transmission Distance	10 km
Working Temperature	-20 ℃~60 ℃

Photon A10

Operating frequency	2.3 G-2.7 G 4.9 G-5.9 G
RF bandwidth	Downlink (10/20 MHz) Uplink (1.25 MHz)
Receive sensitivity	-109dBm@2.4 G ; -103 dBm@5.8 G
Modulation mode	BPSK QPSK 16QAM 64QAM
Transmit power	24dBm@2.4 G ; 22dBm@5.8 G
Encry mode	AES
Video format (H.264)	1080P60;1080P30;1080P25;720P60;720P30;720P25;720P50
MIMO mode	1T2R 2T2R
Wireless adaptor	Twin Channel SMA
Service voltage	12V DC
Working temperature	-20 ℃-60 ℃
Size	116*75*30 mm
Transmission distance	10 km

Payloads

Thyea Z40
Thyea T1
Thyea ZT40
Thyea T2
Thyea X6
Thyea X7
Thyea X3
Thyea XS1
Thyea R6
Thyea S1
Nova L50
Sniffer G2
Thunder P1
Thunder P0 Pro
Volcan F4
Cirrutitan

Thyea Z40

- Customized optical zoom camera for clearer image
- FOC-controlled motor for quicker response
- Optical anti-vibration plus triple-axis damping holder to stabilize image
- High definition image transmission
- Integrated power supply for long flight time

SPECIFICATIONS

Size	152.8×120×166.8 mm
Weight	600 g
Assemble	Detachable
Structural rotation range pitch	-130°~50°; roll：-75°~75°; head：About 175°
Gimbal control range pitch	-100°~45°; head: -170°~170°
Static control accuracy	About 0.01°
Dynamic control accuracy	About 0.05°
Lens 40× zoom; aperture	F1.8~F3.6
Zoomable	Yes
Video resolution	4K
Image compressed format	JPEG
Video compressed format	MPEG-4
Working mode	Photograph, video
Storage card	SD card (512M-2GB); SDHC card (4GB-32GB); SDXC card (48GB-128GB)
Working temperature	-20 ℃~60 ℃
Storage temperature	-30 ℃～70 ℃
Sensor	CMOS 1/2.3 inches
Max. zoom times	40 times
Photo resolution	25 MP

Thyea T1

MMC Thyea T1 infrared thermal camera is a self-developed and manufactured MMC payload, it integrates an infrared thermal camera core and is equipped with MMC multiple-purpose quick release interface, which is suitable for various UAVs.

SPECIFICATIONS

Model	Thyea T1
Size/ Weight	122x158x87 mm / 470 g
Working temperature	-20 ℃~60 ℃
Storage temperature	-30 ℃~70 ℃
Assemble	Detachable
Structural rotation range	Pitch：-130°~50°, roll: ±75°, head:±175°
Thermal imager	Uncooled VOx Microbolometer
Resolution	640x512
Lens	f=19 mm
Temperature measurement range	-20~150 ℃
Storage	Up to 32 GB
Mode	Photo/Video
Function control	Color Palette

Thyea ZT40

Thyea ZT40 dual-sensor camera integrates infrared thermal camera and high-definition zoom camera. It can adapt to most drone models of MMC by equipping with a new gimbal interface. Adopting an advanced gimbal control system, users can use MMC's ground control station to control the gimbal or switch images.

SPECIFICATIONS

Size	197*155*174.2 mm
Weight	1.2 kg
Assemble	Detachable
Structural rotation range	Pitch：-130°~50°; roll：-75°~75°; Head：-175°~175°
Gimbal control range	Pitch:-100°~45°;Head:-170°~170°
Static control accuracy	About 0.01°
Dynamic control accuracy	About 0.05°
Zoomable	Yes
Zoom times of visible light	10 Times Zooming (Up to 40X)
Image resolution of visible light	25 MP
Video resolution	1920*1080p
Temperature measurement range	-20 ℃-150 ℃
Working mode	Photo, Video
Storage card	Max. Support 32 GB
Other functions	Color Palette, Zoom
Sensor of the thermal camera	Uncooled VOx Micro Thermal Radiometer
Resolution of the thermal camera	640*480
Lens of the thermal camera	f=25 mm
Working temperature	-20 ℃～60 ℃
Storage temperature	-30 ℃～70 ℃

Thyea T2

Thyea T2 incorporates advanced detector with high-performance gimbal system and pairs with a ground control station that is capable of finger-point motion control, finger-point temperature detection, high-temperature warning, and high-temperature tracking, making it convenient to operate.

SPECIFICATIONS

Model	Thyea T2
Size	152.2x138.9x93.4mm
Weight	⩽600g
Static control accuracy	±0.01°
Dynamic control accuracy	±0.05°
Gimbal Assembly	Detachable
Structural Rotation Range	Pitch：-130°-50°; Roll：±75°; Head：±175°
Thermal Imager	Uncooled VOx micro thermal radiometer
Resolution	640x480
Lens	25mm
Sensitivity	100Mk@20°C
Zoom	4X Digital Zoom
Working Mode	Photograph, Video
Storage card type	Max. 32GB Micro SD Card
Other Functions	Color Palette
Working Temperature	-20°C~60°C
Storage Temperature	-30°C~70°C

Thyea X6

Thyea X6 is an MMC-developed HD camera gimbal with POS recording function. Compatible with camera signal output and PPK suite, it achieves centimeter- accurate image capturing. Coupled with quick-release connector port, it is adaptable to most of MMC flight platforms.

SPECIFICATIONS

Size	149×156×174mm
Weight	872g
Environment	
Operating Temp.	-10°C-50°C
Storage Temp.	-20°C-60°C
Gimbal	
Static Control Accuracy	±0.01°
Dynamic Control Accuracy	±0.05°
Assemble Type	Detachable
Mechanism Moving Angel Range	Pitch: -90°~50°; Roll: -75°~75°; Yaw:±175°
Camera	
Sensor	CMOS, 23.5*15.6mm
Max. Photo Pixel	24.3 Megapixel
Lens	E 20 mm F2.8(prime lens)
Storage Card	32G(upgradable)
Operation Mode	Photo, Video
Video Resolution	1080p,1080i

Thyea X7

Thyea X7 is an HD all-in-one gimbal camera that can connect with the payload mount underneath the drone with control system built inside the gimbal. Users can control gimbal and camera from MMC Ground Control Station.

SPECIFICATIONS

Model	Thyea X7
Size	186×215×222 mm
Weight	1500g
Operating temp.	-10 ℃~50 ℃
Storage temp.	-20 ℃~60 ℃
Static control accuracy	±0.01°
Dynamic control accuracy	±0.05°
Assemble type	Detachable
Mechanism moving angel range	Pitch: -130°-50°; Roll: -75°-75°; Yaw:±175°
Sensor	CMOS, 35 mm Full Frame
Video resolution	1080p, 1080i
Lens	SELP2870
Storage card	Support SD/SDHC/SDXC, Compatible with UHS-1, support up to 64GB
Operation mode	Photo, Video
Max. photo resolution	42.4 MP
Anti-vibration	Electronic Anti-Vibration

Thyea X3

Thyea X3 incorporates five professional mapping cameras and achieves auto-control over photo shooting through main control box. It is applicable not only to small range high-precision tilted aerial photograph mission, but also to large range low-resolution tilted aerial photograph mission by fixed-wing drone. The images captured could be generated into real 3D module in different resolution through modeling software.

SPECIFICATIONS

Size	170x 160 x80mm
Assembly type	Detachab
Weight	650g
Working Temperature	-10°C~40°C
Sensor size	23.5*15.6mm
Pixel size	3.92μm
Total pixel	120 megapixels
Standard lens focal length	28mm/40mm
Exposure Type	By distance、By time、By waypoint

Thyea XS1

Industrial-level composite materials make for robust structure and lightweight body. Heat-resistant, waterproof, anti-shock, anti-ultraviolet and dust-proof. Professional fixed-focus mapping lens with up to 120 megapixels. Unified USB3.0 port for smooth data reading.

SPECIFICATIONS

Size	162x 162 x98mm
Weight	880g±5g
Working Temperature	-10°C~40°C
Image Resolution	6000*4000
Single sensor pixel	24.30 megapixels
Total pixel	120 megapixels.
Standard lens focal length	35mm
Interval of shooting	⩾0.8s

Thyea R6

Thyea R6 multiband camera is capable of multi-channel spectrum detection. The optional configuration of 17 wavelength filters can meet the needs of different industries such as precision agriculture, forestry, water conservancy, and emergency monitoring. It mainly includes a camera host, Downlighting Light Sensor ("DLS") and GPS.

SPECIFICATIONS

Resolution	1280*960
FOV	43.6°HFOV;33.4°VFOV
Wave band	360-940nm（360nm、410nm、450nm、490nm、530nm、555nm、570nm、610nm、660nm、680nm、710nm（narrowband/ Wideband）、760nm、800nm、840nm、900nm、940nm）
Max. Capture rate	1.5s/time（Working band selection more than 3 channels） 1s/time（Working band selection less than 3 channels）
Sensor type	1/3 Inch CMOS
GSD	G7.5cm/pix,AGL:120m
Storage Capacity	64GB
Storage Format	8/16-bit TIF format
Size（no gimnbal）	77 mm *72 mm *47mm
Weight	650g（no DLS）
Voltage	5.7V DC-17V DC
Work temperature	-10℃-+50℃

Meteo S1

Meteo S1 intelligent dropping payload is equipped with a new quick release interface, which can be adapted to multiple models of flight platforms. It supports camera pitch control and can determine the throw position according to images from FPV camera. Built-in high-precision tension sensor can accurately measure and display the height of the object hanging on it. The automatic throwing force value can be set in advance; it will automatically drop the object once it reaches or exceeds the pull value.

SPECIFICATIONS

Size	130*120*138.6 mm
Weight	860 g
Working temperature	-20 ℃~60 ℃
Storage temperature	-30 ℃~70 ℃
Max. payload capacity	6 kg
Dropping mode	Intelligent, Manual
Video resolution	0.3 MP
Lens	f=3.6 mm
Angle range	0°~90°

Nova L50

Nova L50 is the UAV payload product which is self-developed by MMC, its body is built by aluminum alloy combined with camera and high light LED. It is fitted with all new quick-release payload connector and suitable for various flight platforms of MMC.

SPECIFICATIONS

Model	Nova L50
Size	107*105*123 mm
Weight	1068 g
Working temperature	-20 ℃~60 ℃
Storage temperature	-30 ℃~70 ℃
Focus type	Concave Mirror Focus
Effective lightning distance	850 m
Max. luminous flux	5000 lm
Angle range	-80°~80°
Video res.	0.3 MP

Sniffer G2

Gas Detector

SPECIFICATIONS

Size	145.25*65.9*89.3
Body weight	487.5 g
Single module weight	97 g
Aircraft service voltage	24～50 v
Rated power	12 w
Camera look	360°
Working temperature	-20～60 ℃
Storage temperature	-30～70 ℃
Memory size	32 G
IP level	IPX2

Thunder P1

Thunder P1 megaphone uses a custom tweeter with a maximum of 120dB and an effective audible distance of up to 600m. Its FPV camera is equipped with a new generation of image transmission system to monitor the scene in real time. An integrated single-axis gimbal can be used as needed to adjust the camera pitch angle at any time, and a high signal-to-noise ratio microphone is deployed to reduce the influence of the environment and ensure a clear sound. Thunder P1 is useful for scenes such as on-site rescue, anti-terrorism and riot prevention.

SPECIFICATIONS

Size	217.5*133.9*191.7 mm
Weight	800 g
Working temperature	-20 ℃~60 ℃
Storage temperature	-30 ℃~70 ℃
Max. volume	120 dB
Audible distance	600 m
Video resolution	0.3 MP
Lens	f=3.6 mm
Angle range	0°~90°
Size	75*56.5*24.5 mm
Weight	130 g
Sensitivity	-32 dB
SNR (Signal to noise ratio)	Over 60 dB

Thunder P0 Pro

Thunder P0 Pro fitted with isolated data-link, with a sperate walkie-talkie, speaking range goes up to 5km, the maximum volume goes up to 125dB, 600m range; Equipped with FPV camera, the camera could pitch between 0° and 90°; Featuring play mp3 format file in TF card, and recording function.

SPECIFICATIONS

Speaker	
Size	204*191.5*154mm
Weight	835g
Color	Black
Communication Range	5Km (Open Area)
Effective Volume Range 600m	600m
Max. Volume	125dB (0.5m to speaker)
Input Voltage	DC16~60V
Working Current	1A@12V
Max. Power	100W
Frequency	433MHz

Walkie-Talkie	
Size	120*55*32mm
Weight	230g
Color	Black+Sliver
Communication Range	5Km
Frequency	UHF 400-480MHz
Format	Analog
Battery Capacity	2800mAh
Duration	2-5 days
Max. Power	8W

Environment	
Working Temperature	-20 ~ 60℃
Storage Temperature	-30 ~ 70℃

Volcan F4

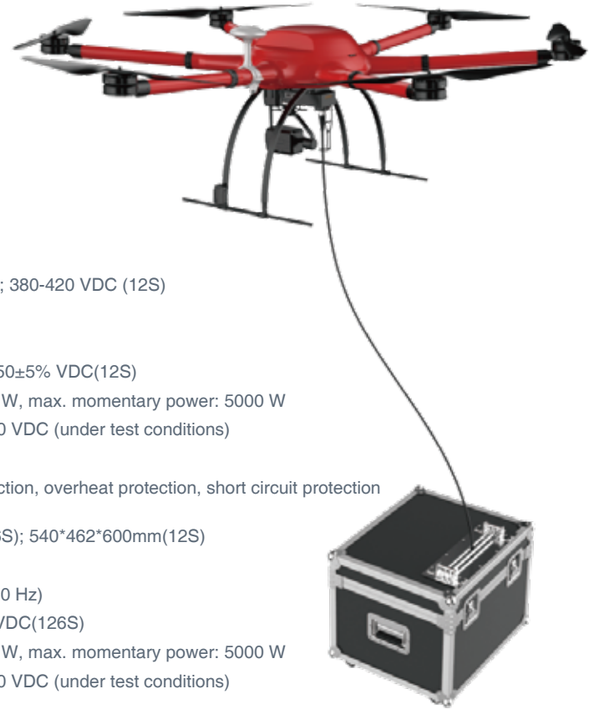
Volcan F4 is a flamethrower payload to remove obstacle that can be mounted into a drone. It is used for grid obstacle eliminating with high mobility, high efficiency and lower cost.

SPECIFICATIONS

Model	Volcan F4
Size	1280*280*260 mm
Weight	2.15Kg
Performance	
Volume	2.8L
Fire spray distance	4 m
Working time	4 mins
Oil	#90 and up
Ignition Mode	HV Impulse
Camera	
Focal Length	3.6mm
Video Resolution	0.3 Megapixel
Environment	
Working Temperature	-20℃~60℃
Storage Temperature	-30℃~70℃

Cirrutitan

Tether System



SPECIFICATIONS

Sky-end	Operating voltage	260-410V/DC (6S); 380-420 VDC (12S)
	Size	200*80*88 mm
	Height	<620g
	Output voltage	24±5%V/DC(6S); 50±5% VDC(12S)
	Output power	rated power: 3000 W, max. momentary power: 5000 W
	Insulation resistance	≥10 MΩ under 500 VDC (under test conditions)
	Withstand voltage	≥2000 VDC
	Protection	over-voltage protection, overheat protection, short circuit protection
Ground-end	Box size	600*570*270mm(6S); 540*462*600mm(12S)
	Weight	≤25 kg
	Operating voltage	100-264 VAC(50/60 Hz)
	Output voltage	400VDC(6S); 420VDC(126S)
	Output power	rated power: 3000 W, max. momentary power: 5000 W
	Insulation resistance	≥20 MΩ under 500 VDC (under test conditions)
	Withstand voltage	≥2000 VDC
	Protection	over-voltage protection, overheat protection, short circuit protection
	Cable length	120 m
	Cable external diameter	≤4.5 mm
	Cable resistance	24 Ω/km
	Cable tensile	≥1000 N
	Working temp.	-20 ℃~60 ℃
	Storage temp.	-30 ℃~70 ℃
	Relatice humidity range	≤95%
	Altitude	＜5000 m
	Cooling mode	forced-air cooling

Hydrogen Fuel Products

Skylle 1550H

Notuzi H100

Hydrogen Fuel Cell

Orca1

Orca2

Hydrogen Compressor

Hydrogen cylinder

Pressure Regulator

SKYLLE 1550H

Skylle 1550H is a hexa-copter hydrogen fuel-cell drone equipped with the latest hydrogen fuel power system. It has an extended flight time up to 4 hours. Full carbon fiber design brings the performance to a more stable and reliable level. Positioning accuracy is up to 1cm with an optional RTK system. The lightweight frame is easy to detach, making it extremely portable and easy to repair on the go if required. With a plug-and-play connector for payload attaching and Gimbal controlling, the drone is compatible with different payloads. The applicable fields covered includes survey, mapping, inspection, public security, aerial photography, and others.

Max. flight time (without payload):
253mins

Specifications

Model	Skylle 1550H
Aircraft type	Hexa-copter
Aircraft size	2297(L) × 2297(W) × 645(H) mm
Wheelbase	1550 mm
Total weight (no load)	<14 kg
Propeller size	29 inches
Power system	Hydrogen fuel cell
Standard takeoff weight	19 kg
Max payload weight	9L / 5kg, 12L / 3kg, 20L / 1kg
Endurance (no payload)	253 mins@20L / 230mins@12L
	170mins@9L
Cruising speed	0-10 m/s
Climbing speed	0-2 m/s
Max. flight altitude (above sea level)	5000 m
Communication & control frequency/range	2 km(2.4 GHz) / 10 km(900 MHz)
Communication range	10 km
Wind resistance	12 m/s（level 6）
Operating temperature range	0~35 ℃
Operating humidity range	10%-90%
EMI (Electromagnetic interference resistance)	100 A/m PFMF (power frequency magnetic field)
Hydrogen storage volume	9L / 12L / 20 L
Hydrogen storage pressure	35 MPa

NOTUZI H100

Notuzi H100 is a four-rotor long-endurance hydrogen fuel drone equipped with the latest hydrogen fuel power system to extend its flight time and make its performance to a more stable and reliable level. With foldable arms, it is really space-saving and easy to carry. Equipped with a portable backpack, people are capable of completing all kinds of inspection tasks individually. It is compatible with different payloads including the thermal camera, the zoom camera, etc, the Notuzi H100 is available for various complicated missions in the public service, electric power, gas& oil, and other industries.

Max. flight time (without payload):
100min

Specifications

Model	Notuzi H100
Aircraft type	Quadcopter
Wheelbase	1060 mm
Weight (without battery)	3.95 kg
Battery	Hydrogen fuel cell +1050 mAh Li-HV
Weight (with battery)	7.25 kg
Max. flight time (without payload)	110 min
Max. flight time (with payload)	80 min
Max. payload weight	1 kg
Max. take-off weight	8.25 kg
Cruise speed	0~10 m/s
Climb speed	0~2 m/s
Wind resistance	Level 5（10 m/s）

HYDROGEN FUEL CELL

This system is a compact and lightweight hydrogen powered fuel cell system made for all applications. It can provide long-time and continuous power supply.

Customization with a wide selection:
200W / 500W / 800W / 1000W / 1800W.

Specifications

Power rating	200W	500W	800W	1000W	1800W
Output range	21-35V	33-50V	24.6-40V	27.6-46V	39-60V
Voltage rating	21V	33V	24.6V	27.6	39
Current rating	9.5A	17A	33A	36A	46A
Dimension(mm)	95*92*95	95*115*95	146*112 *260	146*134*260	146*165*260
Weight(KG)	0.3kg	0.6kg	1kg	1.2kg	1.5kg
Weight(fan included)	0.5kg	0.8kg	1.3kg	1.7kg	2kg
Hydrogen purity	>99.9%				
Oxidizer	Oxygen from the air				
Temperature	0℃—+35℃				
Humidity	10%-90%RH				
Local	LED and Buzzer				
Remot	RS232 serial port / CAN transmission				

Support self-check start, quick start, and one-button reset function

Power module can offer low-voltage and over-current protection

Supply 232 serial port communication, for monitoring function

Complete fail-safe and warning function

Better environmental suitability

Longer duration

Orca1

Orca 1 is an all in one hydrogen refueling station that combines hydrogen generation, storage, pressurization, and refueling together. It is convenient to deliver and operate, which can be helpful to solve the shortage of hydrogen stations. And it is widely applied to refuel the hydrogen fuel-cell drones.

FEATURES

- Fast refueling
- Anti-static and explosion-proof
- Automatic operation
- Monitor and alarm system to improve safety

SPECIFICATIONS

HYDROGEN GENERATION

Source	Tap water
Dispensing pressure	35 MPa
Control system	PLC
Dimension	3.8m*2.3m*2.3m

HYDROGEN STORAGE AND FUELING

Fueling pressure	35 MPa
Capacity	90 kg
Pressure	40 MPa
Fueling capacity	16 kg

Orca2

Orca 2 is a micro hydrogen refueling station that puts hydrogen generation, storage, pressurization, and refueling together. It can produce hydrogen through hydrolysis. And it is transportable with a small size and lightweight.

FEATURES

- Easy installation and maintenance
- Low operating costs
- Automatic operation
- Support off-grid hydrogeneration and refueling
- Can be equipped in a complicated environment

SPECIFICATIONS

Source	Tap water
Filling pressure	35 MPa
Voltage	220 V
Operating power	4.5 Kw
Dimension	1.26m*1.06m*1.06m
Purity	99.999%

Hydrogen Compressor

Hydrogen compressor can easily and quickly pump low-pressure hydrogen into high-pressure gas storage cylinder, supplying hydrogen for fuel cell system. The compressor system is based on electric supercharger, sparing air compressor and gas source. The system includes booster bump, high-pressure hose, valve, meter, pipeline.

SPECIFICATIONS

Output pressure	35 MPa
Input pressure	2 MPa
Safety	High safety, automatic termination
Convenience	Easy and convenient to supply
Mobility	High mobility

Hydrogen Cylinder

The cylinder is wrapped by carbon fiber from Toray with high performance and stability. Then it is simulated to conform design with aircraft. It is based on thin-walled aluminum alloy liner molding technology and reduction technology from Germany LEIFELD backside grinding which is accurately controlled by CNC procedure.

SPECIFICATIONS

Working pressure	35 MPa
Working temperature	-40—+85 ℃
Burst pressure	70 MPa
Fatigue life	≥500 times

PRESSURE REGULATOR

The regulator is based on highly reliable aerospace technology. It is lightweight, easy to install , tightly sealed, and with long life service as well as stable output pressure, greatly enhancing UAV flight time.

SPECIFICATIONS

Rated Input pressure	400 bar
Minimum input pressure	5 bar
Output pressure	40-70 kpa
Medium	Hydrogen
Weight	＜200 g
Package size	78*77*47 mm
Service life	＞10000 times

Industrial Chain Products

UAV Frame

MC4-1060
MC4-1150
MC6-1000X
MC6-1200

Accessories

Smart Battery TI 22000
Battery Charging Hub W8
Battery Charging Hub W2
Dual gimbal connector I

Video-Transmission

Photon C20
Photon A10
Photon A5

Motor

M5008
M5208
M5210
M5212
M5215
M6010
M6012
M6015
M7006
M8108
M8112-100kv
M8112-120kv

MC4-1060

UAV Frame

SPECIFICATIONS

Wheelbase	±1060 mm（error ±5 mm）
Max.take-off load	11500 g
Standard Load weight	2000 g
Max. wind resistance	Scale 5
Working weather	fine day/drizzling day/light snow day
Craftsmanship	mold pressing and wet molding
Max. paddle size	34 inches

MC4-1150

UAV Frame

SPECIFICATIONS

Wheelbase	±1150 mm（error±5 mm）
Max. take-off load	12000 g
Standard load weight	3000 g
Max. wind resistance	Scale 5
Working weather	fine day/drizzling day/light snow day
Craftsmanship	mold pressing and wet molding
Max. paddle size	39 inches

MC6-1000X

UAV Frame

SPECIFICATIONS

Wheelbase	±980 mm（error±5 mm）
Max. take-off load	12000 g
Standard load weight	2000 g
Max. wind resistance	Scale 5
Working weather	fine day/drizzling day/light snow day
Craftsmanship	mold pressing and wet molding
Max. paddle size	24 inches

MC6-1200

UAV Frame

SPECIFICATIONS

Wheelbase	±1200 mm（error±5 mm）
Max. take-off load	16000 g
Standard load weight	3000 g
Max. wind resistance	Scale 5
Working weather	fine day/drizzling day/light snow day
Craftsmanship	mold pressing and wet molding
Max. paddle size	30 inches

Smart Battery TI 22000

- Quick release design
- Real time voltage, current and battery indication
- Short-circuit and overheat protection
- Self balance function to discharge when not in use
- Real-time communication with flight control to calculate remaining flight time
- Equipped with battery charging distributor to alternatively charge 4 batteries

Battery Charging Hub W8

SPECIFICATIONS

Product type	Battery Charging Hub W8
Size	270*190*168 mm
Weight	4.6 kg
Functioning pattern	charging mode/ storage mode
Battery type	LiPo/LiHv
Battery NO.	2-6
Input voltage	AC 220 V
Charging power	1200 W
Discharge power	280 W（35W*8）
Charging current	5A/10A/15A/20A/25A
Balanced current	1.5 A each

Battery Charging Hub W2

SPECIFICATIONS

Product type	Battery Charging Hub W2
Size	268*140*127 mm
Weight	3.1 Kg
Functioning pattern	charging mode/ storage mode
Battery type	LiPo/LiHv
Battery NO.	2-6
Input voltage	AC 200-240V
Charging power	1200 W (600 W*2)
Discharge power	70W（35W*2）
Balanced current	1.5 A each

Dual gimbal connector I

- Quick-release in 30 seconds, a unified port for different devices
- Compatible with HDMI, network, CAN head bus and serial port
- Payload with weight up to 5kg and power up to 150w

M5008

SPECIFICATIONS

Max. tension	3 kg/axle (24V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	1.2-1.8 kg/axle (sea level)
Max. allowable current(continuous)	14 A
Power assembly weight	200 g
Working temperature	-10-50 ℃
Stator size	50×8 mm
KV value	330 rpm/V
Weight	167 g

M5208

SPECIFICATIONS

Max.tension	2.4 kg/axle (24V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	1.0-1.4 kg/axle (sea level)
Max. allowable current(continuous)	13 A
Power assembly weight	200 g
Working temperature	-10-50 ℃
Stator size	51.8×8 mm
KV value	240 rpm/V
Weight	169 g

* Available types: 240 kv / 270 kv / 300 kv / 330 kv / 360 kv

M5210

SPECIFICATIONS

Max. tension	4.3 kg/axle (24V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	1.6-2.2 kg/axle (sea level)
Max. allowable current(continuous)	15 A
Working temperature	-10-50 ℃
Stator size	51.8×10 mm
KV value	270 rpm/V
Weight	182 g

M5212

SPECIFICATIONS

Max. tension	4.0 kg/axle (24V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	1.6-2.2 kg/axle (sea level)
Max. allowable current(continuous)	20 A
Working temperature	-10-50 ℃
Stator size	51.8×10 mm
KV value	300 rpm/V
Weight	208 g

* Available types: 280 kv / 300 kv / 360 kv

M5215

SPECIFICATIONS

Max. tension	5.8 kg/axle (24V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	2.2-3 kg/axle (sea level)
Max. allowable current(continuous)	22 A
Working temperature	-10-50 ℃
Stator size	51.8×15 mm
KV value	320 rpm/V
Weight	243 g

* Available types: 320 kv / 380 kv

M6010

SPECIFICATIONS

Max. tension	5.2 kg/axle (44.4V, sea level)
Recommended battery	12S LiPo
Max. allowable voltage	52.2 V
Recommended take-off weight	2.6-3 kg/axle (sea level)
Max. allowable current(continuous)	10 A
Working temperature	-10-50 ℃
Stator size	60×10 mm
KV value	135 rpm/V
Weight	222 g

* Available types: 135 kv / 220 kv / 270 kv

M6012

SPECIFICATIONS

Max. tension	4.6 kg/axle (22.2V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	2.3-2.6 kg/axle (sea level)
Max. allowable current(continuous)	14 A
Working temperature	-10-50 ℃
Stator size	60×10 mm
KV value	320 rpm/V
Weight	250 g

M6015

SPECIFICATIONS

Max. tension	4.8 kg/axle (22.2V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	2.3-2.6 kg/axle (sea level)
Max. allowable current(continuous)	13 A
Working temperature	-10-50 ℃
Stator size	60×10 mm
KV value	270 rpm/V
Weight	290 g

M7006

SPECIFICATIONS

Max. tension	3.2 kg/axle (44.4V, sea level)
Recommended battery	6S LiPo
Max. allowable voltage	28 V
Recommended take-off weight	1.6-1.9 kg/axle (sea level)
Max. allowable current(continuous)	15 A
Working temperature	-10-50 ℃
Stator size	51.8×8 mm
KV value	200 rpm/V
Weight	185 g

M8108

SPECIFICATIONS

Max. tension	7.4 kg/axle (44.4V, sea level)
Recommended battery	12S LiPo
Max. allowable voltage	52.2 V
Recommended take-off weight	3.5-4 kg/axle (sea level)
Max. allowable current(continuous)	17 A
Working temperature	-10-50 ℃
Stator size	81×8 mm
KV value	115 rpm/V
Weight	225 g

* Available types: 115 kv / 135 kv / 150 kv

M8112-100kv

SPECIFICATIONS

Max. tension	9 kg/axle (24V, sea level)
Recommended battery	12S LiPo
Max. allowable voltage	52.2 V
Recommended take-off weight	4-5 kg/axle (sea level)
Max. allowable current(continuous)	16 A
Working temperature	-10-50 ℃
Stator size	81×12 mm
KV value	100 rpm/V

M8112-120kv

SPECIFICATIONS

Max. tension	10 kg/axle (44.4V, sea level)
Recommended battery	12S LiPo
Max. allowable voltage	52.2 V
Recommended take-off weight	4.5-5.5 kg/axle (sea level)
Max. allowable current(continuous)	16 A
Working temperature	-10-50 ℃
Stator size	81×12 mm
KV value	120 rpm/V

Application—Public Safety

Firefighting

Search and Rescue

Law Enforcement

Traffic Monitoring

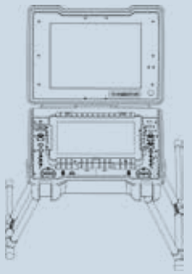
Application—Surveying and Mapping

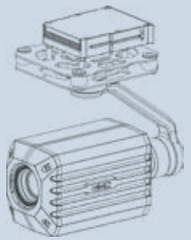
Agriculture Mapping

Engineering Mapping

Geo Information Mapping

3D Modeling





Application—Inspection

Windmill Inspection

Infrastructure Inspection

Building Inspection

Oil & Gas Inspection

Environment Inspection

Power Line Inspection