

UAV parameter description

无人机参数说明



AMAV
金鲲奥维科技

智驱未来·共赴新程

以顶尖智慧, 筑技术高地

Intelligent Drive for the Future

With cutting-edge wisdom, build a technological highland

This time we brought three drone models
本次我们带来了六款无人机型号



AmaV 7' 速影7寸

Size: 276*242*50mm



AmaV 10' 奥维10寸

Size: 420*420*12mm



AmaV 10'X6 奥维10寸六轴

Size: 456*456*60mm

This time we brought three drone models

本次我们带来了六款无人机型号



AmaV 10'X8 奥维10寸X8

Size: 410*410*100mm



AmaV 13' 奥维13寸

Size: 489*489*80 mm



AmaV 15' 奥维15寸

Size: 517*517*80mm

Amav 7' 奥维7英寸



最高速度
额定载荷
最大载荷
图传
空载续航时间
额载续航时间
产品尺寸
机架轴距
机臂厚度
电机
摄像头
天线
接收机
GPS模块
桨叶
推荐电池

Maximum speed: 150km/h
Rated Load: 1.5kg
Max Load: 2kg
VTX: 5.8G 48CH 3W Farthest flight **15km**
Empty endurance: **29min** 6s8000mah, **1.68kg**
Rated Load time: **14min** 6s10000mah, **3.2kg**
Product size: 276*242*60mm
Wheelbase: 312mm
Arm Thickness: 6mm
Motor: 4*2807 1350kv 6s
FPV Camera: 1800TVL 5-40V(Optional)
Antenna: 5.8G SMA L150mm
Receiver: ELRS915M
GPS: Optional M10
Propeller: 7040 3-blade (4pcs)
Recommend Lipo Battery: 6s 8000mah 50C XT60 1kg

Amav 10' 奥维10英寸



最高速度
额定载荷
最大载荷
图传
空载续航时间
额载续航时间
产品尺寸
机架轴距
机臂厚度
电机
摄像头
天线
接收机
GPS模块
桨叶
推荐电池

Maximum speed: 160km/h
Rated Load: 3kg
Max Load: 4kg
VTX: 5.8G 48CH 3W Farthest flight **15km**
Empty endurance: **28min** 6s10000mah, **2.2kg**
Rated Load time: **10min 20s** 6s10000mah, **5.2kg**
Product size: 420*420*60mm
Wheelbase: 396mm
Arm Thickness: 7mm
Motor: 4*3115 900kv 6s
FPV Camera: 1800TVL 5-40V(Optional)
Antenna: 5.8G SMA L150mm
Receiver: ELRS915M
GPS: Optional M10
Propeller: 1050 3-blade (4Pcs)
Recommend Lipo Battery: 6s 10000mah 25C XT60 1.3kg

Amav 10'X6 奥维10英寸六轴



最高速度
额定载荷
最大载荷
图传
空载续航时间
额载续航时间
产品尺寸
机架轴距
机臂厚度
电机
摄像头
天线
接收机
GPS模块
桨叶
推荐电池

Maximum speed: 156km/h
Rated Load: 5kg
Max Load: 6kg
VTX: 5.8G 48CH 3W Farthest flight **15km**
Empty endurance: **26min** 6s6000mah*2, 3.5kg
Rated Load time: **10min** 6s6000mah*2, **8kg**
Product size: 456*456*60mm
Wheelbase: 484mm
Arm Thickness: 7mm
Motor: 6* 3115 900kv 6S
FPV Camera: 1800TVL 5-40V(Optional)
Antenna: 5.8G SMA L150mm
Receiver: ELRS915M
GPS: Optional M10
Propeller: 1050 3-blade (6pcs)
Recommend Lipo Battery: 2* 6S 6000 mah 50C

Amav 10'X8 奥维10英寸X8



最高速度
额定载荷
最大载荷
图传
空载续航时间
额载续航时间
产品尺寸
机架轴距
机臂厚度
电机
摄像头
天线
接收机
GPS模块
桨叶
推荐电池

Maximum speed: 160km/h
Rated Load: 4.5kg
Max Load: 5kg
VTX: 5.8G 48CH 3W Farthest flight **15km**
Empty endurance: **25min** 6s10000mah, **3kg**
Rated Load time: **9min** 6s10000mah, **7.5kg**
Product size: 410*410*100mm
Wheelbase: 484mm
Arm Thickness: 7mm
Motor: 8* 3115 900kv 6S
FPV Camera: 1800TVL 5-40V(Optional)
Antenna: 5.8G SMA L150mm
Receiver: ELRS915M
GPS: Optional M10
Propeller: 1050 3-blade (8pcs)
Recommend Lipo Battery: 6S 10000 mah 50C

Amav 13' 奥维13英寸



最高速度
额定载荷
最大载荷
图传
空载续航时间
额载续航时间
产品尺寸
机架轴距
机臂厚度
电机
摄像头
天线
接收机
GPS模块
桨叶
推荐电池

Maximum speed: 133km/h
Rated Load: 6kg
Max Load: 7kg
VTX: 5.8G 48CH 3W Farthest flight 15km
Empty endurance: 36 min 2* 8s8000mah 5.2kg
Rated Load time: 11 min 2* 8s8000mah 11kg
Product size: 489*489*80 mm
Wheelbase: 647mm
Arm Thickness: 10mm
Motor: 4*4214 440kv 8s
FPV Camera: 1800TVL 5-40V(Optional)
Antenna: 5.8G SMA L150mm
Receiver: ELRS915M
GPS: Optional M10
Propeller: 1310 3-blade (4Pcs)
Recommend Lipo Battery: 2*8s 8000mah 30C XT60 2.04kg

Amav 15' 奥维15寸



最高速度
额定载荷
最大载荷
图传
空载续航时间
额载续航时间
产品尺寸
机架轴距
机臂厚度
电机
摄像头
天线
接收机
GPS模块
桨叶
推荐电池

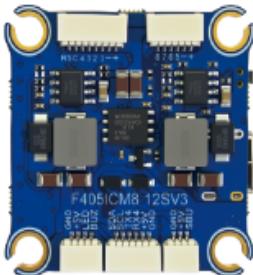
Maximum speed: 130km/h
Rated Load: 7kg
Max Load: 8kg
VTX: 5.8G 48CH 3W Farthest flight 20km
Empty endurance: 42min 2*8s8000mah, 4.9kg
Rated Load time: 12min 2*8s8000mah, 11.8kg
Product size: 517*517*80mm
Wheelbase: 647mm
Arm Thickness: 10mm
Motor: 4*4214 380kv 8s
FPV Camera: 1800TVL 5-40V(Optional)
Antenna: 5.8G SMA L150mm
Receiver: ELRS915M
GPS: Optional M10
Propeller: 1507 3-blade (4Pcs)
Recommend Lipo Battery: 2*8s 8000mah 30C XT60 2.04kg

Drone control system parameters

无人机控制系统参数

飞行控制器 FC (FLIGHT CONTROLLER) F405ICM 6S V2

黑匣子 Black box	电机输出 Motor	通用串口 Serial port	重量 Weight
16 {m}	8 {ch}	4 {ch}	9 {g}



电调 ESC (ELECTRONIC SPEED CONTROLLER) E60-V2 6S 4IN1

持续电流 Constant current	峰值电流 Peak current	输入电压 Input voltage	净重 Weight
60 {a}	70 {a·6s}	0.9 {m·a}	14 {g}



其他参数 Other Specs				
MCU 主控芯片	STM32F405	Gyro 陀螺仪	ICM42688	Support DJI 支持大疆 YES
BEC 电压转换器	9V/2A,5V/3A	Input voltage 输入电压	3-6 S Lipo	Support Receiver 支持接收器 PPM,Ibus,Sbus,Dsmx
Barometer 气压计	德国Bosch BMP280	GPS 支持GPS	YES	Firmware 固件 Betaflight F4 INAV
LED RGB灯带	YES	Buzzer interface 蜂鸣器接口	YES	Betaflight OSD 芯片 YES AT7456E
PCB Size PCB板尺寸	37*37 mm	Mounting Hole 安装孔	M3*30.5*30.5mm	

其他参数 Other Specs				
MOS Tube MOS管	5×6	BEC output BEC	NO	Firmware 固件 BL_S
Protocol 协议	DSHOT 600	PCB Size PCB板尺寸	37×42.7mm	Mounting Hole 安装孔 M3*30.5*30.5 mm
MCU 主控芯片	EFM8BB21F16G(48MHz)			

Drone control system parameters

无人机控制系统参数

图传 VTX VTX VIDEO TRANSMITTER

4.9-5.8G 3W 48CH 15KM

频率 Frequency	最远距离 Transmission Distance	频点 Channels	净重 Weight
5.8 {Ghz}	15 {km}	48 {ch}	30 {g}



摄像头-模拟 FPV CAMERA-ANALOG

1800TVL 5-40V

水平分辨率 Horizontal Resolution	尺寸 Dimensions	宽功率输入 Wide Power Input	重量 Weight
1800 {tvl}	19*19 {mm}	5-40 {v}	5.9 {g}



其他参数 | Other Specs

Input Voltage 输入电压	7-28V	BEC output 电压转换器	5V/500mA	Video format 视频格式	NTSC /PAL
Output Power 输出功率	4-speed	Output self-test 输出功率自检	Yes	Distance 传输距离	$\geq 0.5\text{km}$ 25mW, $\geq 1\text{km}$ 200mW, $\geq 15\text{km}$ 3000mw
Size 尺寸	53x29.4x14.4mm	Mounting Hole 安装孔	M2*20*20 mm	Antenna connector 天线接口	MMCX
Image protocol 图传协议	SmartAudio				

其他参数 | Other Specs

Image Sensor 图像传感器	1/1.8" Inch sensor	Video output 视频输出	CVBS	TV System 电视系统	NTSC & PAL (changeable)
IMAGE 图像	16:9	WDR WDR	Super WDR (HDR)	Min.Illumination 最低照度	0.00001 lux
Lens 镜头	2.1 mm lens	Electronic Shutter 电子快门	PAL: 1/50~100,000 NTSC: 1/60~100,000	S/N Ratio 信噪比	>60dB (AGC OFF)
FOV 视场	165°	Day/Night 白天/晚上	Auto/Color/B&W/EXT	Work Temperature 工作温度	-20°C~+60°C

UAV power system parameters

无人机动力系统参数

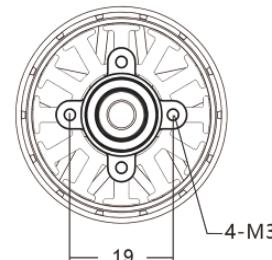
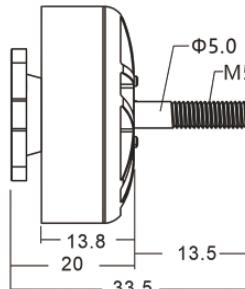
D2807-1300KV

电机重量
Net.weight
58 {g}

电机线长度
Motor cable Length
180 {mm}

空载电流
Idle current
0.8{m·a}

最大电流
Max continuous current
48 {m·a}



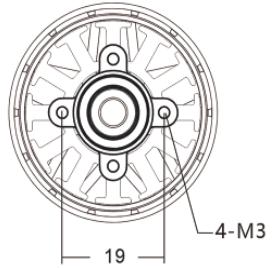
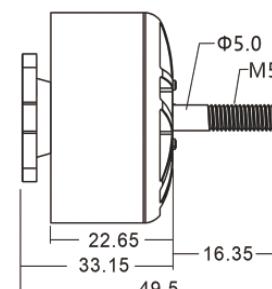
D3115-900KV

电机重量
Net.weight
112 {g}

电机线长度
Motor cable Length
250 {mm}

空载电流
Idle current
1.8 {m·a}

最大电流
Max continuous current
68 {m·a}



其他参数 | Other Specs

Diameter *Length(mm) 电机尺寸	Φ33.1x33.5	Max continuous power(w) 最大功率	1143w	Motor Efficiency(%) 工作效率	90%
Statorsize (mm) 定子尺寸	Φ28x7	Rated current(A) 额定电流	18A	Internal Resistance (mΩ) 电阻	59
Spindle thread(D) 转轴螺纹	M5	Working voltage(V) 工作电压	3s~6s / 12V~24V	No. of celles (Lipo Battery) 支持锂电池节数	4s~6s Lipo
propeller mounting holes 桨安装孔距	5mm	confi-uration 槽极数	12N14p	Motor mounting holes 马达安装孔距	19*19 4-M3

其他参数 | Other Specs

Diameter *Length(mm) 电机尺寸	Φ37.5x49.5	Max continuous power(w) 最大功率	1652w	Motor Efficiency(%) 工作效率	90%
Statorsize (mm) 定子尺寸	Φ31x15	Rated current(A) 额定电流	25A	Internal Resistance (mΩ) 电阻	48
Spindle thread(D) 转轴螺纹	M5	Working voltage(V) 工作电压	3s~6s / 12V~24V	No. of celles (Lipo Battery) 支持锂电池节数	4s~6s Lipo
propeller mounting holes 桨安装孔距	5mm	confi-uration 槽极数	12N14p	Motor mounting holes 马达安装孔距	19*19 4-M3



Drone throwing device

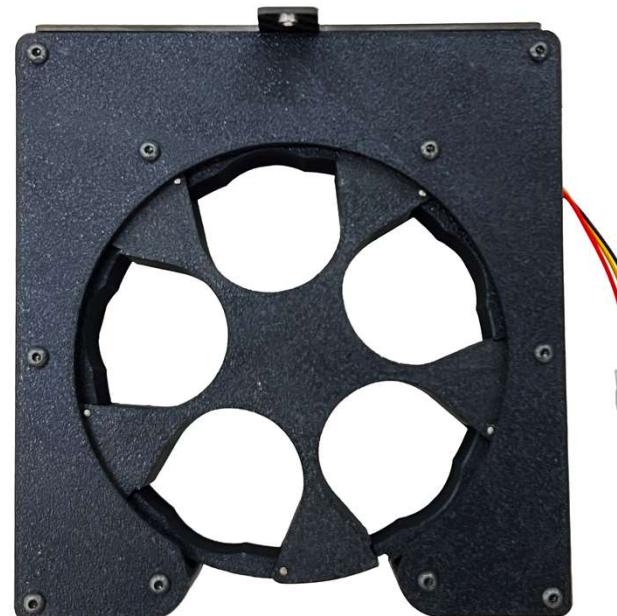
无人机抛投器

Single-shot thrower

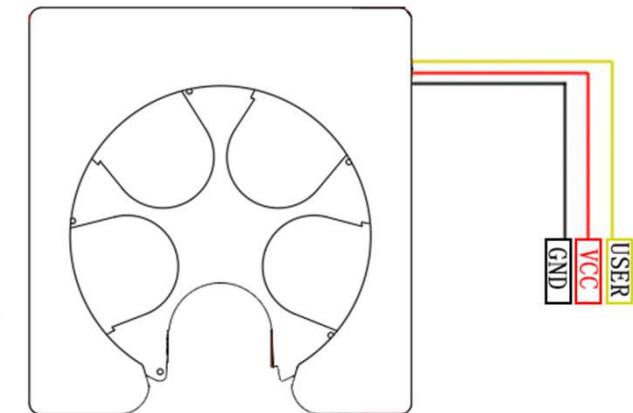


单发抛投器

Five-shot thrower



五连发抛投器



Drone battery parameters-6S

无人机电池参数-6S

8000mAh-6S



10000mAh-6S



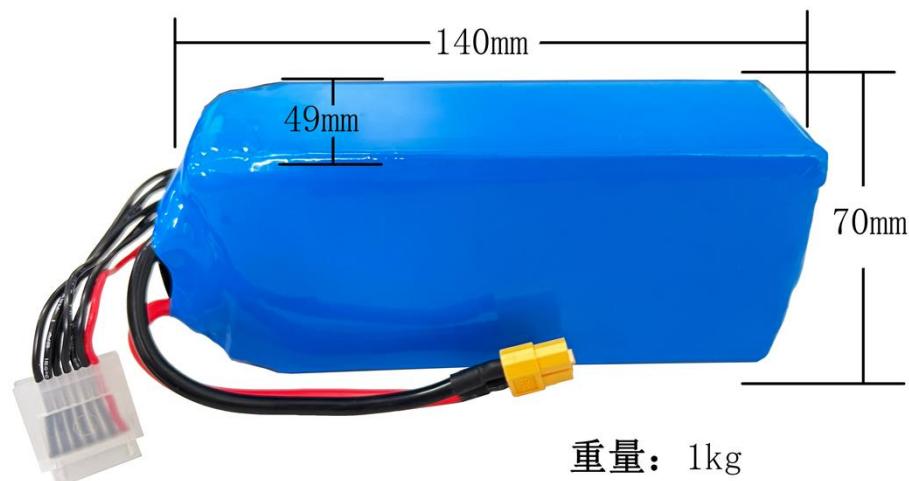
重量: 1.135kg

8000mAh-6S1P-30C-4.4V



重量: 1.02kg

10000mAh-6S1P-30C-3.85V



重量: 1kg

Drone battery parameters-8S

无人机电池参数-8S

8000mAh-8S



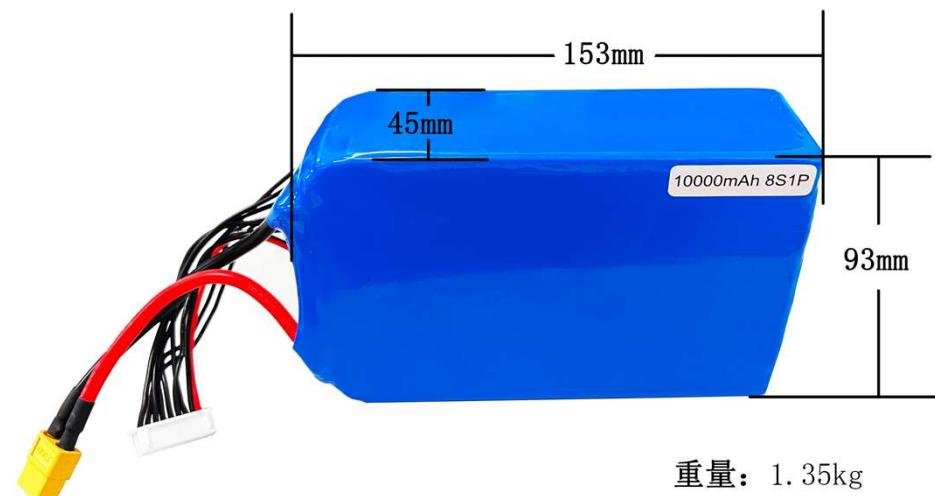
重量: 1.25kg

10000mAh-8S-40C



重量: 1.65kg

10000mAh-8S-1P



重量: 1.35kg

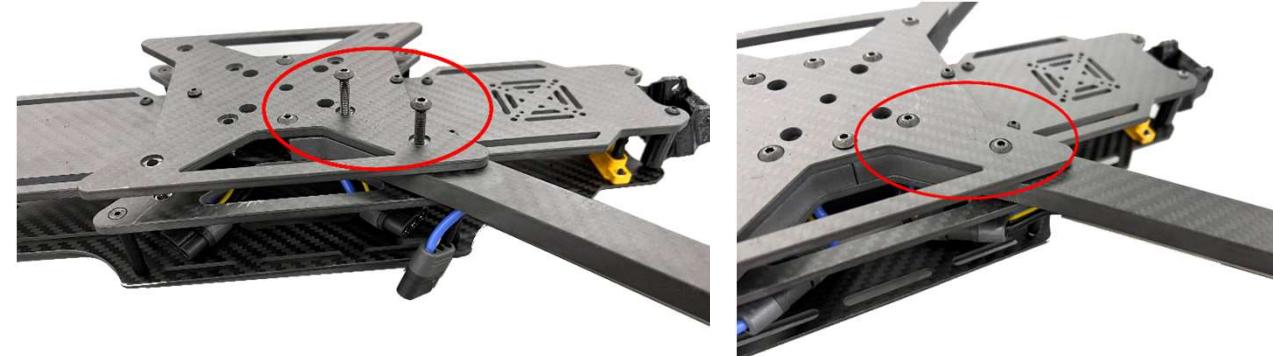
Assembly instructions

组装说明书

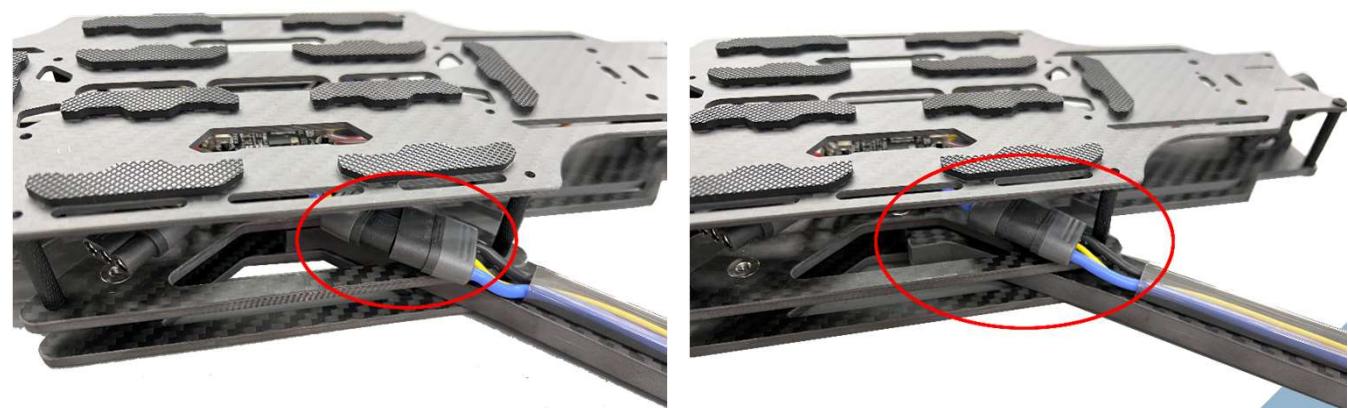
Complete machine parts:



Use the M4*18 screws included in the package to fix the arm in order.



① After fixing the arm screw holes, Quick release connectors for connecting the fuselage to the arm. Note the serial number corresponding to the arm



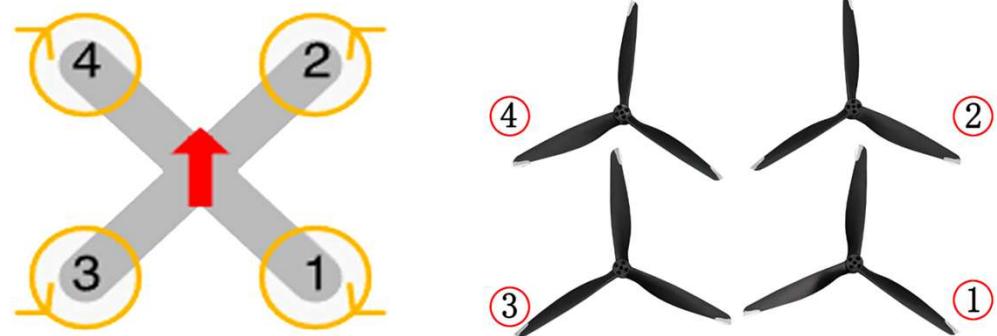
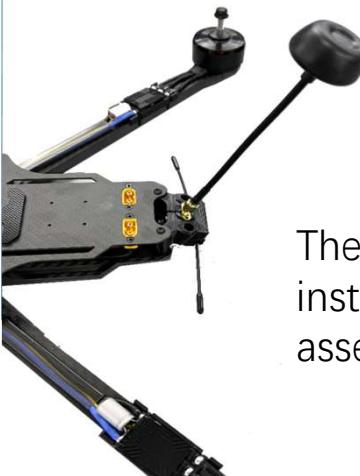
Assembly instructions

组装说明书

Assemble the four arms in this order



The mushroom antenna must be installed before powering up after the assembly is complete.



After the assembly is complete, install the paddle according to the serial number in the illustration.





Thank you for watching

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以顶尖智慧, 筑技术高地

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With cutting-edge wisdom, build a technological highland



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Years of deep cultivation and intelligent driving for the future