

FPV Specifications



Empty Weight (Battery Not Included)	2780g
Rated Payload	8.5kg
Max Payload	9.5kg
MTOW/Max Takeoff Weight	15kg
Max Remote Control Distance	10km+
Operating Voltage	8S LiPo/8S LiHv
Rated Load Hovering Time (0 attitude, <2nd wind level)	12min
Full Load Hovering Time(at sea level, <2nd wind level)	9min
Max Tilt Angle	360°
Max Horizontal Flight Speed (at sea level, <2nd wind level)	140km/h
Max Takeoff Altitude	5000m
Max Ascend Speed	12m/s
Max Descend Speed	20m/s
Max Wind Resistance Level	6
Default Max Angular Speed	Pitch Axis:670 °/s; Roll Axis: 670°/s; Yaw Axis: 670°/s
Receiver Frequency Band	ELRS 915Mhz (other bands can be customized)
VTX Transmitter Power(default 3W)	25mW/1.6W/2W/2.5W/3W
VTX Transmitter Frequency Band	5.8Ghz (other bands can be customized)
VTX Transmitter Antenna SWR	<1.5
VTX Transmitter Antenna Gain	3dB
Dimensions (Length * Width * Height)	673*765*54mm
Wheelbase	706mm
Frame Material	T300 carbon fiber
Operating Temperature	-10 C ~ 40 C

GPS Positioning System (Default does not come with this function, can be optional)

Hovering Accuracy (GPS mode)	Vertical: ±0.5m (when barometer is working normally) Horizontal: horizontal positioning ± 1M (GPS)
Return-to-Home Accuracy (GPS mode)	±1M

Motor Specifications

Max Power	1569.62W
Max Current	49.55A
KV Value	440KV
Number of Magnetic Poles	14
Stator Size	ϕ 42*14mm
Mounting Dimensions	M4 30*30mm
Screw Sizes for Motor	M4-14mm
Weight per Motor	246g
Total Number of Motors	6
Magnetic Wire	220°C High-temperature resistant enameled wire (multi-strand winding wire)
Silicon Steel Sheets	0.2mm Silicon steel sheets
Magnetic Steel	48SH Rotor NdFeB tiles
Shaft	Lightweight high-strength core steel shaft
Housing Material	SUM24L or 20# steel

Propeller Specifications

Diameter	332mm
Pitch	10in
Number of Blades per Propeller	3
Mounting Hole Diameter	6mm
Material	GFR-nylon
Color	Black
Weight per Blade	43g
Number of Propellers per Drone	CCW*2, CW*2

FC Specifications



Processor/Flight Controller	STM32F405
Gyroscope	ICM42688-P
Barometer	BMP280
OSD	AT7456E
Black Box	16MB
Dual-Camera Switch	YES
DJI Dedicated Interface	YES
USB Port	Type-C
Voltage Input	3S-8S LiPo battery
BEC	5V/3A ; 9V/2A
Number of Uart	5
ESC Output	8 set
I2C Protocol	YES
Mounting Hole Pitch	30.5x30.5mm
Firmware	betaflight

Split ESC Specifications

ESC Main Controller	AT32F421K8U7
MOSFET	High-performance MOSFET
Voltage Input	3S-6S LiPo battery
Continuous Current	80A
Peak Current	85A(10S)
ESC Telemetry	YES
ESC Protocol	DShot 150/300/600
Dimension	41*21*11mm
Firmware	AM32_AT32DEV_F421_1.99
Machine ESC Quantity	6

PDB Specifications



Model	PDB6-100AM
On-board Ammeter	YES
BEC	YES(5V-3A/12V-3A)
Voltage Input	3-12S Lipo
Continuous Current	100A (Single circuit)
Peak Current	105A (Single circuit)
Ratio of Ammeter	185
Mounting Hole Pitch	30.5*30.5mm
Dimension	55*52mm

Camera Specifications

Sensor	1/2.7" Inch Blacklight Sensor
Horizontal Resolution	1500TVL
Video Format	PAL/NTSC (optional)
Image Ratio	16:9
Wide Dynamic Range	Super WDR
Low Illumination	0.00001Lux
Lens	2.1mm
Electronic Shutter	PAL: 1/50-100.000SEC. NTSC:1/60-100,000
Video Output	CVBS
FOV	135°
Day/Night	Color /AR Black Light/Auto
Size	19mm*19mm
Wide Voltage Input	DC 5V-20V
Operating Temperature	-20 ℃ ~70 ℃
Weight	6g

Receiver Specifications (other bands can be customized)



Operating Frequency	915Mhz
Receiver Protocols	ELRS
Max Receiver Refresh Rate	200HZ
Minimum Receiver Refresh Rate	25HZ
Return Power	50mW
Voltage Input	DC 4.5-5V
Receiver Dimensions	12*12*2mm
Weight	0.6g (receiver only)
Receiver Antenna Type	“T”Shape

VTX Specifications (other bands can be customized)

Transmit Power	25mW/1.6W/2W/2.5W/3W
Default Output	5.8Ghz /3W
Operating Frequency	4990-5945Mhz
Number of Channels	72CH
Video Format	PAL/NTSC
Antenna Interface	MMCX
Built-in Microphone	No
Supported Protocols	IRC Tramp
OSD Parameter Tuning	Yes
Voltage Input	DC7-28V (2-6S LiPo battery)
Overall Dimension	53*31*14mm
Mounting Hole Distance	20mm*20mm
Weight	19g
Max Effective Signal Distance	10km+
Adapter Cable	MMCX (female pin)-SMA (internal hole) cable *1
VTX Antenna	5.8Ghz 14cm SMA Female Pin Right Rotary Antenna

ANT Specifications (other bands can be customized)



Applicable Frequency Band	5.8Ghz
Working Frequency	5645-5945Mhz
Left/Right Rotary Polarization	RHCP
Antenna Gain	3dB
V—Plane Half Power Beamwidth	80°
SWR	<1.5
Antenna Interface	SMA

Frame Specifications

Dimensions (L*W*H)	673*765*54mm
Wheelbase	706mm
Frame Weight	1084g
Frame Material	T300 Carbon fiber
Bolt Material	12.9 Grade alloy steel
Injection Molding Part Material	Nylon with mixed fiber

Battery Type Recommended

Rated Capacity	7500mAh
Nominal Voltage	29.6V
Combination Method	8S1P
Discharge Rate	70C
Battery Quantity Recommended	2pc
Battery Type	Lipo
Weight	About 1137g ± 30g