



# Product List

## Analog Camera

	<b>Sensor:</b> 1/1.8" Inch Starlight Sensor <b>Resolution:</b> 1200TVL <b>FOV:</b> 165° <b>Lens:</b> 2.1mm lens <b>Image:</b> 4:3 16:9 (Switchable) <b>Min.Illumination:</b> 0.001LUX <b>Video Output:</b> CVBS <b>Shutter Speed:</b> PAL:1/50~100,000;NTSC:1/60~100,000 <b>Wide Power Input:</b> 4.5-36V <b>Working Temperature:</b> -20°C~+60°C <b>Weight:</b> 5.9g <b>Dimension:</b> 19*19*20mm		
<b>Caddx Ratel 2 Regular Version</b>	<table border="1"> <tr> <th>Category</th><td>Analog Camera</td></tr> </table>	Category	Analog Camera
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	<b>Sensor:</b> 1/1.8" Inch starlight HDR sensor <b>Resolution:</b> 1500TVL <b>Image:</b> 16:9 & 4:3 (changeable) <b>Min. Illumination:</b> 0.00001 lux Starlight <b>Lens:</b> 8Mega /F1.2 <b>Electronic Shutter:</b> PAL: 1/50~100,000; NTSC: 1/60~100,000 <b>Video Output:</b> CVBS <b>Dimensions:</b> 19mm*19mm*26.5mm <b>Wide Power Input:</b> DC 5-40V <b>Work Temperature:</b> -20°C~+60°C <b>Work Humidity:</b> 20%~80% <b>Weight:</b> 5.9g (N.W.)		
<b>Caddx Ratel 2 Night version</b>	<table border="1"> <tr> <th>Category</th><td>Analog Camera</td></tr> </table>	Category	Analog Camera
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	<b>Sensor:</b> 1/1.8" Inch starlight HDR sensor <b>Resolution:</b> 1500TVL <b>Image:</b> 16:9 & 4:3 (changeable) <b>Min. Illumination:</b> 0.00001 lux Starlight <b>Lens:</b> 3Mega <b>FOV:</b> 125Degree <b>Electronic Shutter:</b> PAL: 1/50~100,000; NTSC: 1/60~100,000 <b>Video Output:</b> CVBS <b>Dimensions:</b> 19mm*19mm*26.5mm <b>Wide Power Input:</b> DC 5-40V <b>Work Temperature:</b> -20°C~+60°C <b>Work Humidity:</b> 20%~80% <b>Weight:</b> 7.8g (N.W.)		
<b>Caddx Ratel 2 Pro (Best Night vision)</b>	<table border="1"> <tr> <th>Category</th><td>Analog Camera</td></tr> </table>	Category	Analog Camera
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## Walksnail Avatar System



	1080P 120fps compatibility High frame starlight 22ms low latency Ranging Mode 4km range Light weight design FOV160° Built-in 32G storage 6V-25.2V Sony Starvis II Technology <b>Strong low-light performance,</b> currently the only high frame rate low-light camera for HD VTX,		
<b>Walksnail Avatar HD Pro Kit</b>	<table border="1"> <tr> <th>Category</th><td>HD Kit</td></tr> </table>	Category	HD Kit
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	1080P 120fps Dual Antennas Compatible 4K FOV160° 6V-25.2V 4km-10km 22ms low latency Built-in 32G storage High frame starlight 1080P 120fps compatibility Sony Starvis II Technology <b>Strong low-light performance,</b> currently the only high frame rate low-light camera for HD VTX,		
<b>Walksnail Avatar HD Pro Kit (Dual Antennas Version)</b>	<table border="1"> <tr> <th>Category</th><td>HD Kit</td></tr> </table>	Category	HD Kit
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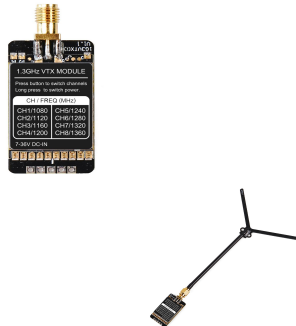
	<b>Communication Frequency:</b> 5.725-5.850GHz <b>Transmitter Power(EIRP):</b> FCC:<30dBm; CE:<14dBm; SRRC:<20dBm; MIC:<25dBm <b>I/O Interface:</b> HDMI Out, HDMI Input, 5Pin 3.5mm Audio Port, DC5.5*2.1mm Port, Micro SD Card Slot <b>Transmission Resolution:</b> 1080p 100fps, 1080p 60fps, 720p 100fps, 720p 60fps <b>Code Rate:</b> Max 50 Mbps <b>Min. Latency:</b> Average 22ms <b>Average Gain:</b> 2dBi <b>Polarization:</b> LHCP <b>Transmission Distance:</b> >4km <b>Screen Resolution:</b> 1920*1080/100Hz <b>IPD Mechanical Range:</b> 57mm-72mm <b>Power Input:</b> 7-26V(2S-6S)		
<b>Walksnail Avatar HD Goggles X</b>	<table border="1"> <tr> <th>Category</th><td>FPV Goggles</td></tr> </table>	Category	FPV Goggles
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	<b>Communication Frequency:</b> 5.725-5.850GHz <b>TransmitterPower(EIRP):</b> FCC:<30dBm;CE:<14dBm;SRRC:<20dBm;MIC:<25dBm <b>I/OInterface:</b> HDMI,micro SD card slot, DC5.5*2.1mm <b>HDMI Output:</b> 1080p60fps,720p100fps,720p60fps <b>Power Input:</b> 7-21V(2S-5S) <b>SDCard:</b> Support 256G <b>System:</b> AvatarHDsystem		
<b>Walksnail Avatar VRX</b>	<table border="1"> <tr> <th>Category</th><td>VRX</td></tr> </table>	Category	VRX
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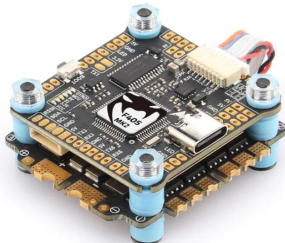
## Frame

	weight:190g			weight:296g	
7.5" 330mm for Analog/Digital FPV Drone	Category	Frame	10" 420mm for Analog/Digital FPV Drone	Category	Frame


## ANALOG VTX

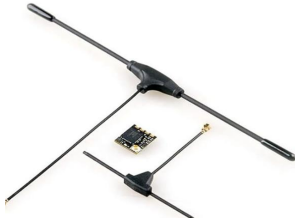
	<p><b>Working Voltage:</b>7-36V <b>Current:</b>≤450mA(12V/800mW)≤850mA (12V/2500mW) <b>Video Format:</b> NTSC / PAL <b>Protocol:</b>IRC Number of <b>Channels:</b>40CH(A-B-E-F-R) <b>Antenna Connector:</b> MMCX Output <b>Power:</b>PIT/25/400/800/1500mw/2500 m <b>Size:</b>38x36.5x7.2mm <b>Mounting hole:</b>30.5*30.5mm/M3 <b>Weight:</b>14.5g <b>Working Temp:</b>-10~60℃ <b>Supply:</b> MMCX 120mm Copper tube antennax1 MMCXto SMA-Jfeederx16pin wirex2</p>			<p><b>Vide Input format:</b> CVBS PAL/NTSC <b>Frequency band:</b> 1060-1380MHz <b>Channel Frequency:</b> CH1-1080 CH2-1120 CH3-1160 CH4-1200 CH5-1240 CH6-1258 CH7-1280 CH8-1320 CH9-1360 <b>Transmit Power:</b> 800mW or 5W <b>Input Voltage:</b> DC 7-36V(3-6S Lipo) <b>Power Consumption:</b> 200mA (+-20mA)@12V <b>Operating Temp:</b> -10C~+60C <b>Dimension:</b> 36mm x 22mm x 7mm <b>Weight:</b> 9g (VTX)</p>	
<b>VTX for Analog 5.8G 2500mW</b>	<b>Category</b>	VTX for Analog	<b>VTX for Analog 1.3G 800mW-5W</b>	<b>Category</b>	VTX for Analog

## Flight Control+ESC


	<b>MCU:</b> 168MHz STM32F405 <b>GYRO:</b> ICM-42688-P ( MPU6000 or BMI270) <b>Blacbox:</b> 16M Flash Memory <b>Uarts:</b> 3Set <b>I2C/RSSI:</b> Yes <b>ESC Signal:</b> 4 Set <b>ESC Soft:</b> Dshot300/600 <b>BEC:</b> 3.3V 0.5A、5V 2A、9V2A <b>Input voltage:</b> 4~6S Lipo ( 16.8~25.2V) <b>Continue current:</b> 55A×4 <b>Burst current:</b> 60A (10S) <b>Target:</b> BLHeli_S CH40 <b>SOFT:</b> Dshot300/600 <b>MOUNTING:</b> 30.5mm/M3	
<b>MAMBA F405MK2 55A 6S STACK</b>	<b>Category</b>	<b>Flight Control+ESC</b>

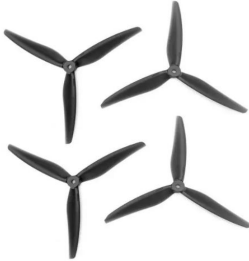
## Receiver

	Image receiver for analog 1.3GHz VTX	
Image receiver for analog	Category	Image Receiver

	<b>ES900RX:</b> <b>MCU:</b> ESP8285 <b>VCC input:</b> 5v <b>Operation current:</b> ~100Ma <b>Rx To FC protocol:</b> CRSF <b>Dimension:</b> 12*12*3mm <b>Weight:</b> 0.60g (exclude antenna) <b>Antenna connector:</b> IPEX1 <b>Telemetry output Power:</b> <17dBm RC7 Firmware for ES900RX	
Radio Receiver	Category	ELRS 915


Propeller


	<b>Length:</b> 10 inch <b>Pitch:</b> 5 inch <b>Blades:</b> 3 <b>Shaft Hole:</b> 5mm <b>Center Thickness:</b> 9mm <b>Material:</b> Reinforced Carbon Nylon <b>Weight:</b> 17g <b>Recommended Motor:</b> 3214 sizes and up	
	<b>Category</b>	Propeller
10 inch 1050		

	<b>Model:</b> Cinelifter 7535-3 Polycarbonate <b>Quad Weight:</b> 2200g-4400g <b>Recommended Motor:</b> 2812 <b>Material:</b> Polycarbonate <b>Prop Length:</b> 7.5* <b>Size:</b> 7.5X3.5X3 <b>Weight:</b> 9.4g <b>Color:</b> Black <b>Pitch:</b> 3.5" <b>Mount:</b> M5	
	<b>Category</b>	Propeller
7 inch 7535		


Motor

	<b>Load capacity:</b> 3.5kg <b>Flight time:</b> around 10-12 mins with load, 20+mins without load	
	<b>Category</b>	Motor
2812 900KV		

	<b>Load capacity:</b> 2kg <b>Flight time:</b> around 10-12 mins with load, 20+mins without load	
	<b>Category</b>	Motor
2810 1150KV		


	<b>Load capacity:</b> 5.5kg <b>Flight time:</b> around 10-12 mins with load, 20+mins without load	
	<b>Category</b>	Motor
3115 900KV		

Battery

	<b>Weight:</b> 768g <b>22.2V/6S1P /6 Cells</b> <b>Charge Plug:</b> JST-XHR <b>Discharge Plug:</b> XT60	
	<b>Category</b>	Battery
6S-22.2V 70C 7000mA		

	<b>Weight:</b> 856g <b>22.2V/6S1P /6 Cells</b> <b>Charge Plug:</b> JST-XHR <b>Discharge Plug:</b> XT60	
	<b>Category</b>	Battery
6S-22.2V 70C 6500mA		


GPS

	<b>Chip:</b> M10 (ten generation chip) <b>Frequency:</b> GPS L1,GLONASS L1,BDSB1,GALILEO E1,SBAS L1.QZSS L1 <b>Power:</b> 5V <b>Size:</b> 18mm*18mm*4.6mm <b>Receiving channels:</b> 72 search channels	
	<b>Category</b>	GPS

Remote Controller

	<b>Size:</b> 170*159*108mm <b>Weight:</b> 363g <b>Frequency:</b> 2.400GHZ-2.480GHZ <b>RF Chip:</b> ExpressLRS (ELRS)/CC2500 <b>Working Current:</b> 320mA@8.4V(ELRS/180mA@8.4V(CC 2500)) <b>Voltage Range:</b> 6.6-8.4v DC <b>Radio Firmware:</b> EdgeTX (Transmitter)/ExpressLRS(RF module)/MPM(RF module)	
	<b>Category</b>	Remote Controller

Radio Transmitter

	<b>ES900TX:</b> <b>MCU:</b> ESP32+ESP8285 <b>Dimension:</b> 55*39*11mm <b>Weight:</b> 9.2g(only the TX module) <b>Antenna connector:</b> SMA <b>VCC input:</b> 5~13v,Recommend 5v~9v <b>Max Output Power:</b> <33dBm(For >27dBm operation,fan recommend)	
	<b>Category</b>	TX