RETRUCTION MANUAL



Thank you for purchasing Kylin 250 FPV, in order to have easy and enjoyable flying experience, please read this manual carefully before your first fly.



Version No: 20150814



Product introduction

Kylin 250 FPV is NOT a toy, it's a combination of many high-tech electronics and can be dangerous due to improper operation. Please take care of your safety and don't fly in public or crowded places. Neither manufacturer nor distributors/dealers will be responsible for accident caused by improper operation or wrong setting.

Beginners should be accompanied by experienced pilots or get trained when fly.

Away from high voltage wires, wireless towers, etc., which are prone to interfere flight.

Please DON' T fly in rainy days, and be away from moist environment.

Before flying, confirm first if there' s any other pilots fly at same frequency, because of which the FPV might get out of control due to same frequency interference.

Product introduction

Kylin 250 FPV is in hierarchical structure with the battery in middle, so any 3D movement can be precise, stable and flexible. With the kit we offer free 280mm arm and 6045 props, pilots can upgrade to FPV-280 easily without changing any other parts or electronics. All parameters are well-tuned in factory, simply restore to factory default parameters can correct any wrong setting.

Batteries suggested to use on Kylin 250 FPV:

For beginners: 2200mah 3S can have longer flight time; For primary level pilots: 1300-1500MAH 3S, speed racing; For advanced level pilots: 1300-1500mah 4S, high speed racing.



Full carbon plates in three different thicknesses on Kylin ensure the strength and flexibility.



5.8G video translate 32ch and 800 TVL HD video camera reveal can change camera the realistic flying environment and transmit first person view in HD quality with max speed.



Adjustable camera plate elevation and keep the camera horizontal view in any flight.



All electronics integrated on PCB board (include CC3D, OSD, PMU) makes maintenance and change easy.



5.8G video translate 600mw 32ch with 800 TVL HD video camera, the most real show the flying environments.



The core power technology for Kylin 250 FPV is and the highresistance magnetic steel brushless motor 2204-2300KV, it can meet the power requirement for all pilots.



2.5mm full carbon arms are crash-resistant and protect motor from any damage.



Matted black injected canopy with high anti-resistance performance reduces drag coefficient effectively, and protects electronics inside.



For RTF, the radio AT9 have set in three modes to satisfy different level pilots: beginners, primary level, advanced level.



High-efficiency 20A ESC



Embedded nuts make maintenance easier.



AT9 transmitter Settings



1. Enter the MODEL TYPE



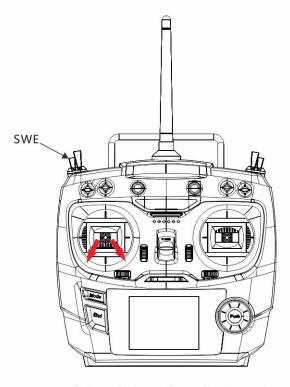
2. Choose Aircraft mode



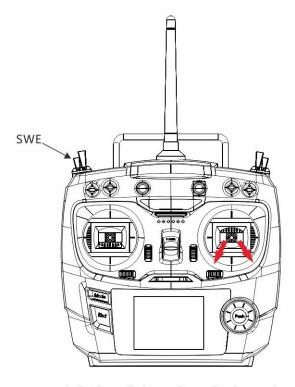
3. Enter the AUX-CH menu



4. Set the CH5 channel to SWE



Left hand throttle unlock mode



Right hand throttle unlock mode

Safety-of-flight items

- 1.Before Take-off, please open the transmitter first, and ensure the throttle lever is in lowest point, Then on aircraft power supply, waiting for aircraft self-inspection. Blue lights flash turn intermittent flash for self-checking, Self-checking process do not moving the aircraft.
- 2.Throttle unlock mode:

The throttle lever at in minimum, then to the right keep 3 seconds, When the blue lights flicker fast, unlock has been success, push the throttle to fly.

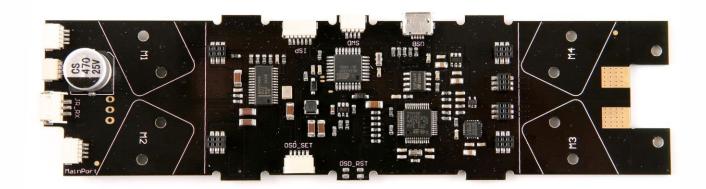
- 3.Throttle lock mode:
 - The throttle lever at in minimum, then to the left keep 3 seconds, When the blue light is intermittent flicker, the throttle lock success. Or wait for 30 seconds, throttle will automatic lock, For security, can gently push the throttle lever to check whether has been locked.
- 4.SWE switch, has set up three flight mode:

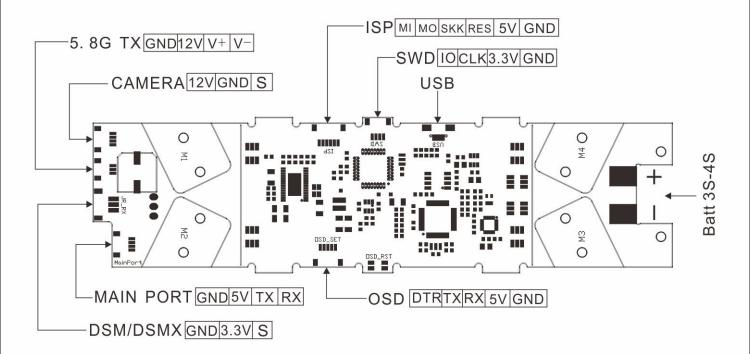
The first gear (back) normal mode

The second gear (middle) flexible mode

The third gear (forward) manual mode







Remarks

- 1. When using S.BUS and DSM receiver, Main port for the idle state, can't insert any other plugs.
- 2.OSD default is FLEXI Port, This FPV PCB plate is a built-in Flexi port, No external socket.
- 3. When setting the OSD parameters, need to close the FLEXI port in setting software.









4.OSD Settings, applies only to senior enthusiasts, For beginners, do not set up on its own, because easy to damage the built-in OSD module.



CC3D restore the default parameters

- 1. From KDS website to download KyLin 250 AT-9 default Parameters, Connect the USB interface, Refer to below import default parameters to CC3D flight control system.
- 2. Import the debug parameter should be unload the propellers, to avoid the damage caused by out of control.
- 3. Default Parameters is AT-9 Transmitter parameters, Please adjust parameter if you need change the transmitter.
- 4. CC3D software, please login website to download: https://wiki.openpilot.org/display/builds/openpilot+software+downloads

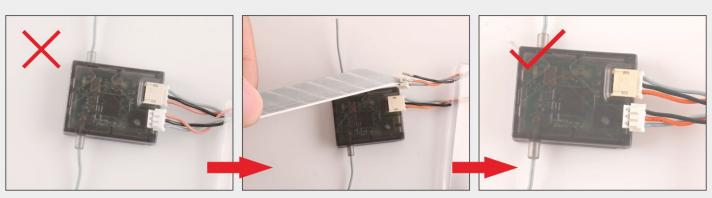






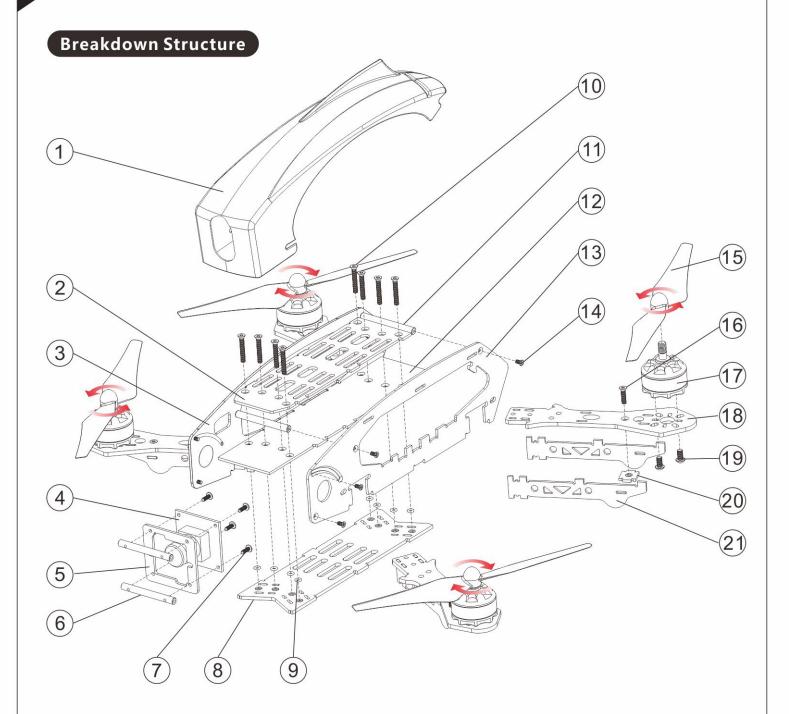


DSM2/DSMX satellite receiver change of the lines as follow



- 1. Correct DSM2/DSMX Satellite the wiring
- 2. Use a knife, pick out the black and orange lines , two lines to swapped.
- 3. As shown in two signal lines swapped





No.	Part No.	Description	Quantity
1	KF-250-18	Kylin250 canopy	1
2	KF-250-13	Frame upper plate	1
3	KF-250-15	Main frame R	1
4	KF-800TVL	Camera HD 800TVL	1
5	KF-250-17	Camera plate	1
6	KF-250-17	Camera mount	2
7	KF-250-17	Round head screw(M2*6)	4
8	KF-250-14	Frame under plate	1
9		O-ring	8
10	KF-250-14	Flat head screw (M2. 5*17)	8
11	KF-250-15	Plastic main rotor holder	2

No.	Part No.	Description	Quantity
12	KF-250-10	KYLIN250 High-Integrate PCB	1
13	KF-250-15	Main frame L	1
14	KF-250-15	Flat head screw (M2*4)	8
15	5045/6045	5"/6" propeller*1 pair	2
16	KF-250-16	Flat head screw (M2.5*10)	4
17	BL-2204-2300KV	Kylin motor 2204-2300KV	4
18	KF-250-11/12	250/280 Arms 1 pair	4
19	BL-2204-2300KV	Round head screw(M3*6)	8
20	KF-250-16	Tube arm mount	4
21	KF-250-16	Arm support plate	8



Kylin 5.8G Video Transmitter Instruction manual V1.0

Warning and disclaimer

Thank you for purchasing this product, before turning on the power must be installed antenna, otherwise may cause burning damage; Please keep the transmitter and receiver antenna visible (do not cover), otherwise the communication distance will be affected; Please according the local radio regulations, to use this product, correct selection the RF and power stipulated in the law.

Product introduction

KYLIN 5.8G Video Transmitter is working on 5.8GHz (5645-5945MHz) in the ISM band FM video launch module, Transmitter to signal Simulated modulation and by of wireless sent to receiver, the receiver demodulation then send signals to the display terminal display. When using this product, have of 32 channels is optional, have small volume, low power consumption and high sensitivity, and more characteristics for this product. This product can be widely applied in various fields to realize wireless communication, When applied in the model aircraft activities, please install the transmitter to aircraft, and connect the receiver to display at the same time, Or used have built-in receiver display, displayed video info on the screen.

Checklists: Transmitter *1 / 5.8G antenna *1 / Cable *1

Instructions

- Step 1: please install the antenna to transmitter of KyLin.
- Step 2: please use cable connected to transmitter and video signal source; as shown below to Connect the receiver of KyLin.
- Step 3: Using of RF key Settings, KyLin receiver and transmitter work under the same channel, If the channel indicator light flashing for the same, then the transmitter and receiver work in the same channel.

Channel lights

It is ABEF+CH1-8 channel combined 32 channels As follow

- A Channel combination under have CH1-8 channels
- B Channel combination under have CH1-8 channels
- E Channel combination under have CH1-8 channels
- F Channel combination under have CH1-8 channels

Push of a button, switch CH1-8 channels, Press the button 2 seconds long switch A, B, E, F channel combination.

SPECIFICATIONS

Transmission range 1-6km

Transmitted power can be according the regulation of different areas, choose to buy. (25mw, 200mw, 600mw).

Working temperature -20~70 oC

Size: 32*22*10mm Weight 11.5g

Transmitting voltage 3-6S Lipo

Transmitter current 50ma-250ma

PRODUCT SPECIFICATION

WI C	DE:TS5828		5.8G 60	00/200m\ Tra	V 32 Cha		
_	I 1	Modulate	W	ideband l			
	Vid	NTCS/PAL					
			Value		Units		
	Cha	racteristics	Min.	Тур.	Max.		
1	Outpi	ut impedance			15551		
2	Ou	tput Power	27		28	dBm	
	Frequency range	Cutput Power					
		CH1		5865		MHz	
		CH2		5845		MHz	
		CH3		5825		MHz	
	FR1 or(A)	CH4		5805		MHz	
	I KI OI(A)	CH5		5785		MHz	
		CH6		5765		MHz	
		CH7		5745		MHz	
		CH8		5725		MHz	
		CH1		5733		MHz	
		CH2		5752		MHz	
		CH3		5771		MHz	
	FR2 or(B)	CH4		5790		MHz	
	FK2 OF(B)	CH5		5809		MHz	
	1 -	CH6		5828		MHz	
		CH7		5847		MHz	
3		CH8		5866		MHz	
3		CH1		5704		MHz	
	FR3 or(E)	CH2		5685		MHz	
		CH3		5665		MHz	
		CH4		5645		MHz	
		CH5		5885		MHz	
		CH6		5905		MHz	
		CH7		5925		MHz	
		CH8		5945		MHz	
	FR4 or(F)	CH1		5740		MHz	
		CH2		5760		MHz	
		CH3		5780		MHz	
		CH4		5800		MHz	
		CH5		5820		MHz	
		CH6		5840		MHz	
		CH7		5860		MHz	
		CH8		5880		MHz	
4	Oper	ating Voltage	7.0	12	24	V	
5	Su	Supply current		280		mA	
6	Operating Temperature		-10		+85	°C	
7	Video Band width		0		8.0	MHZ	
8	Audio carrier Frequency			6.5		MHZ	
9	Vide	0.8	1.0	1. 2	Vp-p		
10	Video I		75		Ohm		
11	Audi	0.5		2.0	Vp-p		
12	Audio I	Audio Input Impedance		10K		Ohm	
13			11.5		g		
14	Anter	na Connector	RPSMA Connector				
15	Dimensions(LxWxH) 32x22x10mm						

