

SKYZONE

SKY01S

FPV GOGGLE

USER MANUAL

System Content



FPV GOGGLE



Carry case



Futaba data cable



JR data cable



WFLY data cable



AV cable



Power cable

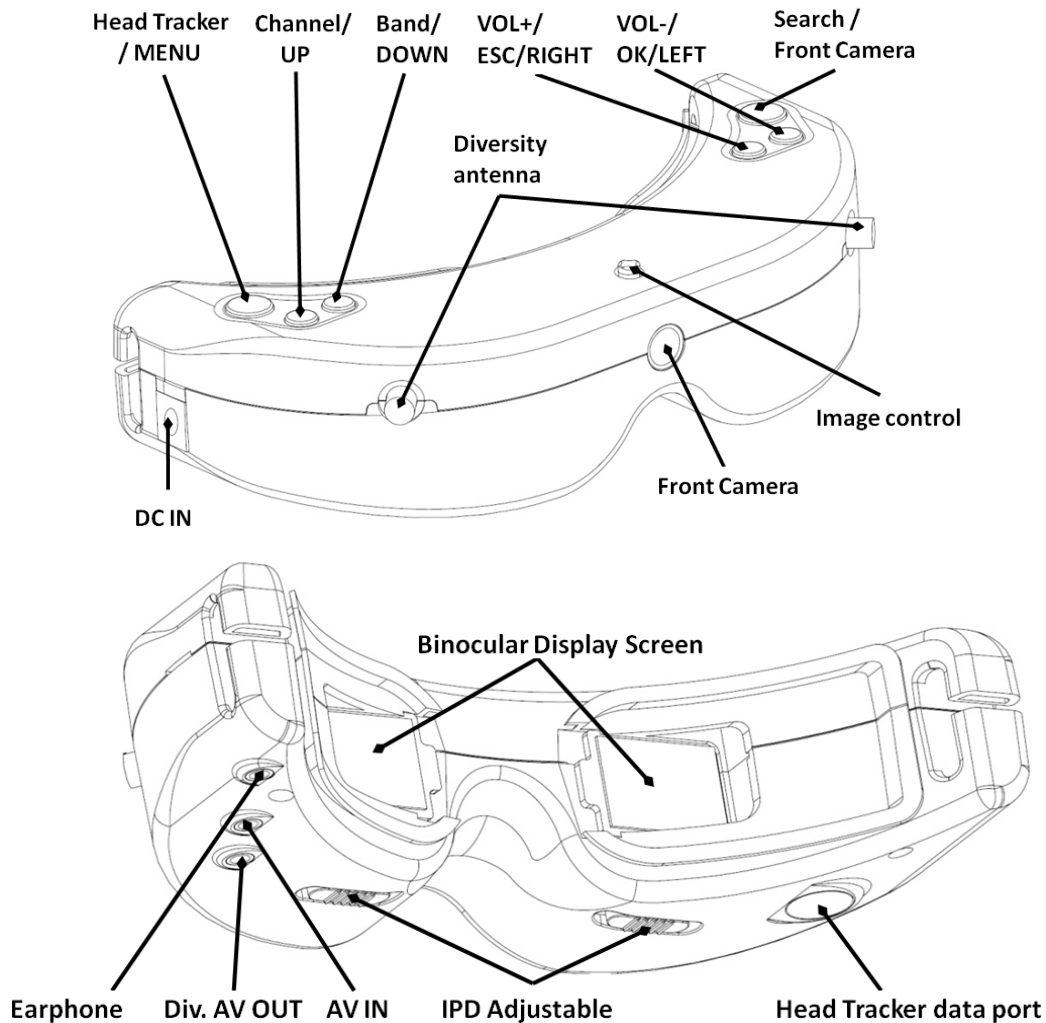


5.8G 2dBi antenna X 2



Upgrade cable

Function Diagram



Operation Guide

SKY01S FPV glasses are inbuilt with two 5.8GHz receiving modules, two antenna ports and Binocular Display modules, 5.8GHz receiving work in diversity mode. supports 6 bands and 48 channels (see the Specifications Description for details).

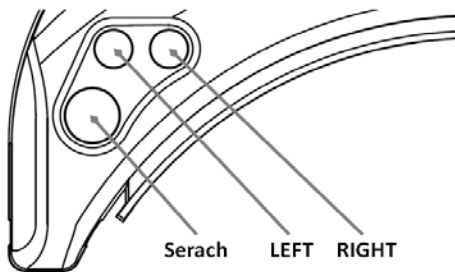
Quick Start

Preparation

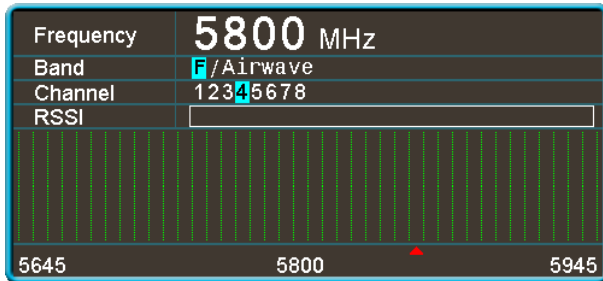
- Install lens, eyeshade, antenna.
- Connect camera with transmitter properly, power on the transmitter, set proper working channel and then power on SKY01S FPV glasses.
- Press short <BAND/CH> button to adjust channels and keep consistent with the transmitter to view the images taken by the camera.
- Slide the IPD adjuster to adjust interpupillary distance (IPD).

Channel serach

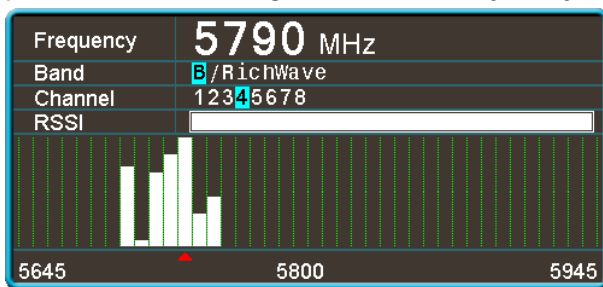
- Button function.



- Long press the <Search> button to pop up the channel search menu.



- press the <Search> button to execute channel search (repeatable). Channel search is conducted from low frequency to high frequency. After 40 channels are searched, the device will work at the strongest channel. The histogram displays the signal intensity of every channel. You may press the <LEFT> button and the <RIGHT> to choose the desired channel manually. The band, channel and signal intensity in the place where the triangular indicator stays may be updated in real time.



- After exiting from the search menu, the device can work in the current search to the channel.

Functions of Buttons

TRACK Button:

- In normal mode, press short to reset the head tracker.
- Hold the button 3s to enter menu setup.

CHANNEL Button:

- In RF mode, press short to cycle adjust channels.
- In menu state, press such button to choose upward.

BAND Button:

- In RF mode, press short to cycle adjust bands.
- In menu state, press such button to choose downward.

VOL+ Button:

- In RF, AV IN mode, press short to turn up volume.
- In menu state, press such button to exit.
- In channel search state, press such button to choose rightward.

VOL- Button:

- In RF, AV IN mode, press short to turn down volume.
- In menu state, press such button to confirm.
- In channel search state, press such button to choose leftward.

CAMERA Button:

- In any mode, press short to switch to the front view.
- In RF mode, hold it 3s to enter or exit from the search menu.

RF Mode

- Press the <CHANNEL> button to adjust channels and <BAND> button to adjust bands in circular manner, then the screen will display BAND, CH and frequency.

Front Camera

- The front camera of such FPV glasses has VGA resolution and good low illuminance, enabling to easily observe surroundings very easily without taking off the glasses.
- In any mode, you may press the <CAMERA> button quickly to open the front camera.
- The front camera is designed only for temporary view to see surroundings; so it cannot AV output.

Image Adjustment

- Press Center button in the image setup menu, achieve personalized display effect.
- It's easy to setup the Brightness, Contrast, Saturation, Hue and Sharpness with the 5-direction switch.
- Press the <UP/DOWN> button to select menu, Press the <LEFT/RIGHT> button to adjust value.
- It is recommended to set such parameters in very clear image state.
- Press Center button 3 seconds to setup image to factory default

Head Tracking

- Head tracking needs initialization time. When powered on, be sure to keep the product horizontal and stable. When you hear "Beep", it means the initialization is completed and you may start to use head tracking; or you may press the <TRACK> button shortly when this device keeps stable to use such function normally.
- Press short <TRACK> button to reset the PPM signal to the central location with warning tone.
- In menu, you may set PPM channels as CH5-CH6, CH5-CH7, CH5-CH8, CH6-CH7, CH6-CH8 or CH7-CH8.
- Pan Tracking range: 180° (90° for left and right respectively), 120° (60° for left and right respectively), 90° (45° for left and right respectively), 90° as default.
- Tilt Tracking range: (60° for left and right respectively), 90°(45° for left and right respectively), 60°(30° for left and right respectively), 90° as default.
- Pan Correction: Via such setup, you may separately compensate the central deviation of Pan. You may set it at 0~10 levels, and the actual compensation angle is related to the turning angle of the cradle head.
- Tilt Correction: Via such setup, you may separately compensate the central deviation of Tilt. You may set it at 0~10 levels, and the actual compensation angle is related to the turning angle of the cradle head.
- PPM Reverse: <Normal> as default setup, <Pan> as the reverse of such channel, <Tilt> as the reverse of such channel, <Pan & Tilt> reverse in two directions.

AV IN

- This device supports AV IN. When the AV IN connection cable is inserted, it may automatically turn off the radio reception module to save power.

AV OUT

- The AV OUT port outputs the audio and video signals of diversity reception.
- The earphone port may connect with a headset. When this device is powered on every time, be sure to minimize the volume of the headset in order to prevent large noise from affecting your hearing.

Factory Settings

- Enter the system menu, choose the option of "Factory Settings", press the <OK> button to enter the setup state, press the <UP/DOWN> button to choose <YES>, and the <OK> button again to restore all the functional settings in the menu to factory settings.

Firmware upgrade

- In off state, hold the VOL+ key and power on, then the system will enter the upgrade mode,
- Connect one end of the special upgrade cable to PC and the other end to the AV IN socket, and wait for a moment, then PC will remind installing the driver (for initial use). After the driver is installed, one "mobile disc" with capacity about 100KB~10MB will appear,
- Copy the upgrade document (generally in xxxxx.bin) to the root directory of such mobile disc and then wait and copy.

Specifications

Binocular Display	FOV		30 degrees (Diagonal)						
	Resolution		854X480(WVGA), 1,229,760 color sub-pixels						
	Brightness		350cd/m ²						
	Interpupillary distance (IPD)		60-68mm Adjustable						
Wireless Receiver	ISM 5.8GHz 48 Channel, Diversity receiver.								
	Band	CH 1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
	A	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M
	B	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5866M
	E	5705M	5685M	5665M	5645M	5885M	5905M	5925M	5945M
	F	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M
	R	5658M	5695M	5732M	5769M	5806M	5843M	5880M	5917M
	L	5362M	5399M	5436M	5473M	5510M	5547M	5584M	5621M
	Sensitivity		-90dBm ± 1dBm						
	Antenna port		2 X SMA,50ohm						
	Video Standard		NTSC/PAL						
	Video output level		1.0Vp-p Typ / 75ohm						
	Audio output level		1.0Vp-p Typ / 10Kohm						
Front Camera	FOV		120 degrees (Diagonal)						
	Resolution		640X480(VGA)						
	FOCAL LENGTH		f=0.95mm						
	F/NO		F/NO=2.0						
Head Tracker	Sensor		Magnetic, Inertial and gyro						
	Output		PPM 8 channel, Optional 5-6CH,5-7CH,5-8CH,6-7CH,6-8CH,7-8CH						
AV Port	Div. AV OUT(3.5mm4P)		Diversity Video、 Audio output						
	EAR OUT(3.5mm3P)		32 Ω /75mW or 16 Ω /105mW, With volume control						
	AV IN(3.5mm4P)		Video、 Audio input						
Power Supply	DC IN		DC 7~28V/ 1A						
	Power Consumption		12V input: 4.3W						
Dimensions		168(L)X92.5(W)X41(H)mm (Not include prominent part)							
Weight		g							
Operating Temperature		0℃~+60℃							