

SKYZONE

02X

FPV GOGGLES

**3D FPV GOGGLE
USER MANUAL**



System Content



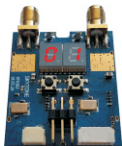
FPV GOGGLE



Carry case



SCAM302 Camera(Optional)



STX202 Transmitter(Optional)



*HDMI A-C(Separate purchase)



Futaba data cable



JR data cable



2P TX Power cable



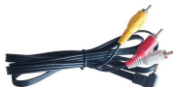
5.8G 2dBi antenna X 4



5P Camera cable



3P TX Remote control cable

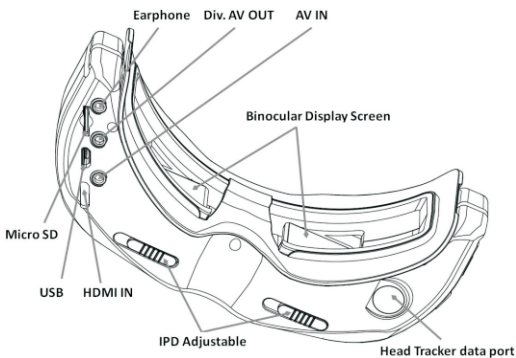
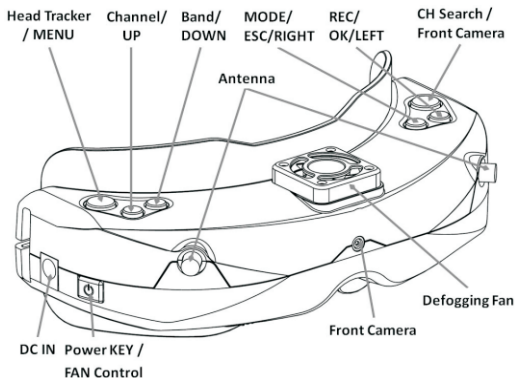


AV cable



Power cable

Function Diagram



Operation Guide

SKY02X FPV glasses are built with two 5.8GHz receiving modules, two antenna ports and two independently-working display modules, bringing you 3D FPV flight experience. In such mode, SCAM302 3D camera and STX202 two-way transmitters need to be provided. The two lens of the 3D camera work in the parallel manner so that 3D effect can be enhanced for close shot and reduced for long shot, bringing people an overall vivid visual experience.

SKY02X FPV glasses can also work in routine diversity reception mode. In such mode, it displays common 2D images. Its radio channel and band settings may be compatible with STX202 and other 5.8GHz transmitters, and in total it supports 6 bands and 48 channels (see the Specifications Description for details).

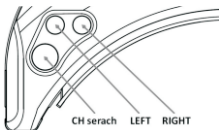
Quick Start

Preparation

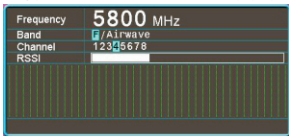
- Install lens, eyeshade, antenna and storage card for FPV.
- Connect SCAM302 camera with STX202 transmitter properly, power on the transmitter, set proper working channel and then power on SKY02X FPV glasses, long press the power button to turn on the machine (and then long press the power button again to turn off the machine).
- Press short <UP/DOWN> 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 search

- Button function.

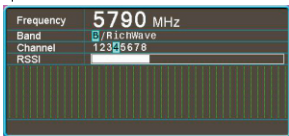


- Long press the <CH Search> button to pop up the channel search menu.



- press the <CH Search> button to execute channel search (repeatable). Channel search is conducted from low frequency to high frequency. After 48 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 signal intensity will be updated in real time.



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

RF Racing

- The <RF Racing> mode is specially set for the game. In this mode, the camera can work only on the eight channels of the R band. The regulating channels of <CH> button will be increased, while the regulating channels of <BAND> button will be decreased. The channel search function can be only used to scan the eight channels of the R band.

Functions of Buttons (For the functions of buttons in playback mode, see the description in the "Playback" section)

TRACK Button:

- In normal mode, press short to reset the head tracker.
- Hold the Menu button 3s to enter menu setup.
- In menu state, switch 5 main menus with such button.

CHANNEL Button:

- In 3D RF mode, press short to add channels.
- In 2D RF mode, press short to cycle adjust channels.
- In 3D RF, 2D RF, HDMI IN, AV IN or PLAYBACK mode, Long press 3s to turn up volume.
- In menu state, press such button to choose upward.

BAND Button:

- In 3D RF mode, press short to decrease channels.
- In 2D RF mode, press short to cycle adjust bands.
- In 3D RF, 2D RF, HDMI IN, AV IN or PLAYBACK mode, Long press 3s to turn down volume.
- In menu state, press such button for choice.

REC Button:

- In 3D RF, 2D RF or AV IN mode, press short to take videos and again to stop.
- In menu state, press such button to confirm.
- In channel search state, press such button to choose leftward.

MODE Button:

- In preview state, press short to switching operation mode.
- In menu state, press such button to exit.
- In channel search state, press such button to choose rightward.

CAMERA Button:

- In any mode, press short to switch to the front view.
- In 2D RF mode, hold such button to search, hold it 3s to enter or exit from the search menu.

RF Mode

3D Mode

- 3D mode is effective only in RF mode and the device may switch automatically to 2D in other modes.

- There are 4 default channels. You may adjust channels with the <UP/DOWN> button; in menu, you may set RF Band as "Custom"; then choose proper bands and adjust channels properly. (Always use the "Custom" function carefully, too close frequency may result in mutual disturbance; it is advised the frequency interval should be about 40MHz).
- Such mode does not support channel search.

2D Mode

- After 3D mode is closed in menu, the device will work in 2D mode and activate the diversity reception; in 2D mode, in menu, the setup of the other functions under 3D mode will be ineffective.
- 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.
- Such mode support channel search.

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 record the image to the storage card nor output the same via AV OUT. During video recording, the activation of the front camera will not affect the recorded video.
- When the front camera is activated, you may have normal mode switching.

Image Adjustment

- In the image setup menu, you may set such parameters as Brightness, Contrast, Saturation, Hue and Sharpness to as to achieve personalized display effect.
- On the function item to be set, press the <OK> button to enter setup state, press the <UP/DOWN> button to zoom in/out images with images displaying the adjustment effect in real time; press the <ESC> button to back to the previous menu.
- It is recommended to set such parameters in very clear image state.



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.

Recording

- It is recommended to format the storage card that is initially installed. (See "Format SD Card" section hereinafter for details).
- You may use the Record function in both RF mode and AV IN mode. In normal state, the screen will display  and SD Card Capacity Information; in such case, you may press the <REC> button to activate video recording; then the device will activate video recording with the icon  appearing in red and recording time starting to count.
- In preview state, you may press the <PHOTO> button to take photos with warning tone heard. (You cannot take photos during video recording)
- In default state, the video recorded also includes sound. You may close "REC Sound" in the system menu. In such case, you may record the video without sound.
- You may inactivate the whole video module to power save.
- In order to ensure reliability, in video state, if the capacity of the card is less than 0.5GB, the device will automatically stop recording videos; if less than 0.01GB, the function of taking photos will be ineffective.

Playback

Functions of Playback Button:

- In RF mode or AV IN mode, Long press <REC> button to enter the playback mode.
- REC < PLAY/PAUSE/OK> button.
- PHOTO < STOP/BACK> button
- BAND < PREVIOUS/ Fast Backward > button.
- CHANNEL < NEXT/ Fast Forward > button.
- TRACK < DELETE> button.
- In playback mode, you may directly preview the video or photo in the storage card and the back 4 digits of the file name appears on the upper right corner. In case of video, the recording duration of the file will appear under the file name.
- In the process of playing a video file, you may press the < Fast Backward/Fast Forward > button for 2X, 4X, 8X play, and press the <PLAY > button to restore normal speed. When the play is over, the image will stay on the first frame of this file. In such case, press the < STOP > button to back to the previous state to have other operations or replay the video.
- When browsing the files in the storage card, to delete one file, press the < DELETE> button to pop up the "Delete" menu, and press the <OK> button to delete the desired file.
- This device may be unable to identify the other files taken by other devices.

Fan

- The built-in fan can not only used for defogging, but also can be used to dissipate the heat within the product. The speed of fan can be set in the system menu.
- Press the POWER button to start up/stop the fan for defogging.

HDMI IN

- This device supports HDMI IN. When the HDMI IN connection cable is inserted, it may automatically turn off the radio reception module to save power.
- When the resolution format supported is identified, images may automatically appear; otherwise, the inbuilt test image of 8 color bar.

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.








Format SD Card

- Enter the system menu, choose the option of "Format SD Card", press the <OK> button to enter the setup state, press the <UP/DOWN> button to choose <YES>, and the <OK> button again to format.
- Be careful to use such function, because, after such operation, all files in the storage cards will be deleted.






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.
- Restore factory settings not delete the files in SD card.

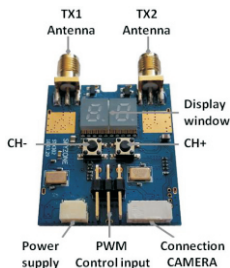
Screen OSD

-  Video recording icon: In normal state, such icon is white; in video recording, it is red. If you cannot take a video for any reason, for example, the video module is inactivated, the storage card is full or the faulty, such icon will be in red, like .
-  Photo icon: In video preview state, press the <PHOTO> button to display such icon in red, indicating one photo has been taken.
-  Storage card icon: In normal state, it appears in its original color followed by capacity in GB (1,000MB), when the storage card is full, it will be in red.
- Mode icon: RF, HDMI, AV IN and PLAYBACK mode.
-  Icon: RSSI Signal Intensity Indicator.
-  mode: You can only have 3D display in RF mode.
-  mode: Such icon will appear when 3D mode is off or the device is in HDMI IN, AV IN, PLAYBACK and

Front Camera mode.

-  Mode: After this device is connected to PC, such icon will appear. In such mode, you may manage the contents in the storage card of this device via PC operation, (you may have Playback, Copy and Delete on PC).
-  Play/Pause icon.
-  Fast Backward/Fast Forward icon: when operating Fast Backward/Fast Forward operation, you will see such icon followed by corresponding speed rate.
- Power supply icon: If you do not want this device to monitor power voltage, you may set the power supply in DC IN and then the screen will display a <DC IN> icon. If battery is used for power supply, you may set the battery pack voltage range in 2S, 3S, 4S, 5S or 6S, and then the screen will display corresponding battery icon, in detail,  stands for Full battery and  for Low battery.
- Channel icon: In 3D mode, the icon "CH" will appear on the screen. If the <Custom> band setup is activated in 3D mode, then the screen will display at the same time RX1/RX2 band and channel information; in 2D mode, the screen will display "BAND" and "CH".

Transmitter Operation Guide



- When mounting the antenna, please carefully check if the antenna port matches the transmitter port, do not connect it to power supply unless it is installed securely; otherwise, the transmitter may be damaged due to wrong installation.
- Be sure to install the transmitter in the place with good ventilation rather than a sealed space, or do not wrap the transmitter tightly.
- In use, do not touch the antenna and its metal components in order to avoid affecting the work of the transmitter; in addition, touching the metal components of the antenna may have the risk of burning!
- STX202 has two LEDs, which display channels in channel preset mode. In custom channel mode, the left LED display TX1 band and channel while the right one display TX2 band and channel.
- When powered on every time, the device will work in the preset channel mode. In such mode, you may adjust channels via the buttons <CH-> and <CH+>. Totally, there are 4 channels available.
- Long press the <CH-> or <CH+> button to enter the custom channel mode. In such mode, the 2 LEDs will flicker and the device will enter firstly the band setup state. Respectively press the <CH-, CH+> button to set the bands of TX1 and TX2 and press the <CH-,CH+> button again to respectively exit from band setup mode and enter the normal working mode. In normal mode, you may press shortly the <CH-> or <CH+> button to set channels. To switch custom channel mode to the preset channel mode, press the <CH-> and <CH+> buttons at the same time.
- In preset channel mode, you may connect one PWM channel of the receiver remotely controlled to the

S1 port of STX202 to control channels. On the remote controller, there is one 3-level switch with C-H for channel + and C-L for channel-.

- In custom channel mode, you may connect the other PWM channel of the receiver remotely controlled to the S2 port of STX202. On the remote controller, there are two 3-level switches with S1 port to control TX1 bands and channels, S2 port to control TX2 bands and channels, C-H to adjust bands and C-L to adjust channels.

Specifications (SCAM302)

FOV	120 degrees (Diagonal)
F/NO	F/NO=2.3
Interpupillary distance (IPD)	40mm
Resolution	720X576
Video Standard	PAL
Video output level	1.0Vp-p Typ. / 75ohm
Power supply	DC 5.0V/ 0.5A
Power Consumption	1.6W
Dimensions	56.5(L)X17.8(W)X14(H)mm
Weight	12g
Operating Temperature	0℃~+60℃

Specifications (STX202)

Modulate	Wideband FM Modulate									
Video Standard	NTSC/PAL									
RF Output Impedance	50 ohm									
RF Output Power	Min.		Typ.		Max.		Units			
	22.0		23		24		dBm			
Wireless Transmitter	ISM 5.8GHz 48 Channel, Dual Transmitter.									
	Preset	CH 1		CH2		CH3		CH4		
	Frequency	5733M / 5771M		5752M / 5790M		5809M / 5847M		5828M / 5866M		
	Custom Frequency	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		
Video input level	1.0Vp-p Typ. / 75ohm									
Video Band Width	8.0MHz									
Audio input level	2.0Vp-p Typ. / 10Kohm									
Audio carrier Frequency	6.5MHz									
Power supply	DC 5V/ 1.2A									
Power Consumption	5V input: 5.5W									
Dimensions	38(L)X32(W)X8.9(H)mm (Not include prominent part)									
Weight	14g									
Operating Temperature	0℃~+70℃									

Specifications (SKY02X)

Binocular Display	FOV	30 degrees (Diagonal)								
	Resolution	854X480(WVGA), 1,229,760 color sub-pixels								
	Brightness	350cd/㎡								
	Interpupillary distance (IPD)	59-69mm Adjustable								
Wireless Receiver	ISM 5.8GHz 48 Channel, Diversity receiver.									
	Preset	CH 1		CH2		CH3		CH4		
	Frequency	5733M / 5771M		5752M / 5790M		5809M / 5847M		5828M / 5866M		
	Custom Frequency	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								
Front Camera	FOV	60 degrees (Diagonal)								
	Resolution	640X480(VGA)								
	FOCAL LENGTH	f=4.0mm								
	F/NO	F/NO=2.8								
Head Tracker	Sensor	Inertial and gyro								
	Output	PPM 8 channel, Optional 5-6CH,5-7CH,5-8CH,6-7CH,6-8CH,7-8CH								
Record	Micro SD	Support to 32GB								
	Compression	MJPEG, 30fps, AVI								
	Picture	JPEG								
	Record rate	6Mbps								
	AV Signal	Video Standard	NTSC/PAL							
Video output level		1.0Vp-p Typ. / 75ohm								
Audio output level		1.0Vp-p Typ. / 10Kohm								
AV Port	Div. AV OUT(3.5mm4P)	Diversity Video, Audio output								
	EAR OUT(3.5mm3P)	Stereo 16Ω/150mW								
	AV IN(3.5mm4P)	Video、Audio input								
	HDMI IN(HDMI /C-Type)	HDMI 1.4 specification 1920x1080p60, 1920x1080p50, 1920x1080i60, 1920x1080i50, 1280x720p60, 1280x720p50, 576p, 576i, 480p, 480i, PC Format(Not all)								
Power Supply	DC IN	DC 7~26V/ 1A								
	Power Consumption	12V input: 5.4W								
Dimensions		168(L)X92.5(W)X41(H)mm (Not include prominent part)								
Weight		210 g (Not include package box)								
Operating Temperature		0℃~+60℃								
Weight		210 g (Not include package box)								
Operating Temperature		0℃~+60℃								

Operating Temperature		0℃~+60℃												
Weight		210 g (Not include package box)												
Dimensions		168(L)X92.5(W)X41(H)mm (Not include prominent part)												
Power Supply	Power Consumption	12V Input: 5.4W												
	DC IN	DC 7~26V/1A												
AV Port	Div. AV OUT(3.5mm3P)	1280X720p60, 1280X720p50, 576p, 576i, 480p, 480i, PC Format(Not all)												
	AV IN(3.5mm4P)	HDMI IN(HDMI /C-Type)												
	EAR OUT(3.5mm3P)	HDMI 1.4 specification												
	Video, Audio input	Video, Audio input												
AV Signal	Video output level	Diversity Video, Audio output												
	Video output level	1.0Vp-p Typ. / 75ohm												
	Video Standard	1.0Vp-p Typ. / 10kohm												
	Record rate	NTSC/PAL												
Record	Record rate	6Mbps												
	Picture Compression	JPEG												
	Micro SD Output	MJPEG, 30fps, AVI												
	Sensor	Support to 32GB												
Front Camera	F/NO	PPM 8 channel, Optional 5-6CH,5-7CH,5-8CH,6-7CH,6-8CH,7-8CH												
	FOCAL LENGTH	Inertial and gyro												
	Resolution	F/NO=2.8												
	FOV	=4.0mm												
Wireless Receiver	Antenna port	60 degrees (Diagonal)												
	Sensitivity	2 X SMA,50ohm												
Custom Frequency	Band	CH 1	CH2	CH3	CH4	CH5	CH6	CH7	CH8					
		CH 1	573M / 577M	575M / 579M	5809M / 5847M	5828M / 5866M								
	Frequency	A	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M				
		B	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5866M				
	Frequency	E	5705M	5685M	5665M	5645M	5625M	5605M	5585M	5565M				
		F	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M				
	Frequency	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											
FOV		60 degrees (Diagonal)												
Resolution		640X480(VGA)												
FOCAL LENGTH		=4.0mm												
F/NO		F/NO=2.8												
Sensor		Inertial and gyro												
Output		PPM 8 channel, Optional 5-6CH,5-7CH,5-8CH,6-7CH,6-8CH,7-8CH												
Micro SD Output		Support to 32GB												
Picture Compression		MJPEG, 30fps, AVI												
Record rate		JPEG												
Record rate		6Mbps												
Video Standard		NTSC/PAL												
Video output level		1.0Vp-p Typ. / 75ohm												
Video output level		1.0Vp-p Typ. / 10kohm												
Div. AV OUT(3.5mm3P)		Diversity Video, Audio output												
AV IN(3.5mm4P)		HDMI IN(HDMI /C-Type)												
HDMI IN(HDMI /C-Type)		1280X720p60, 1280X720p50, 576p, 576i, 480p, 480i, PC Format(Not all)												
DC IN		DC 7~26V/1A												
Power Consumption		12V Input: 5.4W												
Dimensions		168(L)X92.5(W)X41(H)mm (Not include prominent part)												
Weight		210 g (Not include package box)												
Operating Temperature		0℃~+60℃												

Specifications (SKY02X)

Operating Temperature		0℃~+70℃											
Weight		14g											
Dimensions		38(L)X32(W)X8.9(H)mm (Not include prominent part)											

Power Consumption											5V input: 5.5W	
Power supply											DC 5V/ 1.2A	
Audio carrier Frequency											6.5MHz	
Audio input level											2.0Vp-p Typ. / 10kOhm	
Video Band Width											8.0MHz	
Video input level											1.0Vp-p Typ. / 75ohm	
Wireless Transmitter	Custom	Frequency	L	5362M	5399M	5436M	5473M	5510M	5547M	5584M	5621M	
			R	5658M	5695M	5732M	5769M	5806M	5843M	5880M	5917M	
			F	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M	5945M
			E	5705M	5685M	5665M	5645M	5885M	5905M	5925M	5945M	5866M
			A	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5745M	5725M
	Band	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8			
		5733M / 5771M	5752M / 5790M	5809M / 5847M	5828M / 5866M							
	Presets	CH 1	CH 2	CH 3	CH 4							
		5733M / 5771M	5752M / 5790M	5809M / 5847M	5828M / 5866M							
	ISM 5.8GHz 48 Channel, Dual Transmitter.											
RF Output Power		Min.	Typ.	Max.	Units							
		22.0	23	24	dBm							
RF Output Impedance		50 ohm										
Video Standard		NTSC/PAL										
Modulate		Wideband FM Modulate										

Specifications (STX202)

Operating Temperature	0°C~+60°C
Weight	12g
Dimensions	56.5(L)X17.8(W)X14(H)mm
Power Consumption	1.6W
Power supply	DC 5.0V/ 0.5A
Video output level	1.0Vp-p Typ. / 75ohm
Video Standard	PAL
Resolution	720X576
Interpupillary distance (IPD)	40mm
F/NO	F/NO=2.3
FOV	120 degrees (Diagonal)

Specifications (SCAM302)

- 在安装天线时请仔细确认天线端口和发射器的端口是否匹配，并确保安装紧固后才能接通电源，否则可能因天线安装错误导致损坏发射器。
- 必须将发射器安装在通风良好的地方，不能将其安装在封闭的空间或者严密包裹发射器。
- 使用过程中请勿触摸天线及天线金属部件，避免影响发射器工作，触摸天线金属部件有烫伤危险！
- STX202 有 2 位 LED 显示，在预设频道模式显示频道，在自定义频道模式时，左边的 1 位 LED 显示 TX1 的波段和频道，右边的 1 位 LED 显示 TX2 的波段和频道。
- 每次上电默认工作在预设频道模式，在此模式下可通过<CH>，<CH>+按钮调节频道，共 4 个频道。
- 长按<CH>或<CH>+按钮进入自定义频道模式，在此模式下，<CH>+按钮可退出波段设置模式，并进入正常的工操作模式，在正常模式下可随时短按<CH>或<CH>+按钮设置频道。要从自定义频道模式切换至预设频道模式，请同时长按<CH>和<CH>+按钮。
- 在预设频道模式下的一个 PWM 通道连接接收器的一个 PWM 通道连接 STX202 的 S1 端口来控制频道，在遥控器上分配一个 3 档开关，C-H 频道，C-L 频道。
- 自定义频道模式下需要接收机的另外一个 PWM 通道连接 STX202 的 S2 端口，在遥控器上分配两个 3 档开关，S1 端口控制 TX1 的波段与频道，S2 端口控制 TX2 的波段与频道，C-H 调节波段，C-L 调节频道。

AV 输入

- 视频眼镜支持 AV IN 功能，当插入 AV IN 连接线，则自动关闭无线接收相关模块以节省电量。

AV 输出

- AV Out 端口输出分集接收的音频和视频信号。
- Earphone 端口可连接头戴式耳机，视频眼镜每次上电后都将耳机输出的音量设置为最低，以防止过大噪音影响听力。

格式化 SD 卡

- 进入系统菜单，选择 Format SD card 选项，按<OK>按钮进入设置状态，按<UP/DOWN>按钮选择<YES>，再按<OK>按钮将执行格式化操作。
- 请谨慎操作此功能，格式化后将删除存储卡中所有的文件。

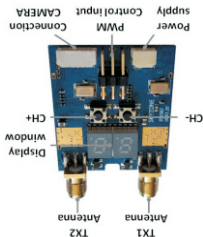
出厂设置

- 进入系统菜单，选择 Factory settings 选项，按<OK>按钮进入设置状态，按<UP/DOWN>按钮选择<YES>，再按<OK>按钮将菜单中所有功能设置恢复至出厂默认状态。
- 恢复出厂默认设置并不会删除 SD 中的文件。

屏幕 OSD

- 录像图标：正常情况显示白色，录像过程以红色显示；如果因为某种原因不能录像，例如：录像模块被关闭、存储卡满或者存储卡错误导致不能启动录像，将显示红色。
- 拍照：在视频预览状态按一次<PHOTO>按钮，显示一次红色拍照图标，表示拍摄了一张照片。
- 存储卡图标：正常情况显示白色，后面跟容量信息，并以 GB（1000MB）为单位，当存储卡满后显示红色图标。
- 模式图标：RF、HDMI、AV IN、PLAYBACK 模式。
- 图标：RSSI 信号强度指示器。
- 模式：只有在 RF 模式下可启用 3D 显示模式。
- 模式：当关闭 3D 模式或者在 HDMI IN、AV IN、PLAYBACK、Front Camera 模式都显示此图标。
- 模式：当本机连接 PC 后，显示该图标，在此模式下可通过 PC 的操作来管理本机存储卡中内容，（可进行 PC 端回放、拷贝、删除）。
- 播放/暂停图标。
- 快速/快速图标，在执行快速/快速操作时，该图标后面紧跟其相应的倍速。
- 电源图标：如果不需要本机监测电源电压，则设置为 DC IN 供电方式，屏幕显示<DC IN>图标，如果使用电池供电，则可以设置电池电压范围，可选的范围有：2S, 3S, 4S, 5S, 6S, 且屏幕显示对应的电池图标，表示电量状态，表示低电量状态。
- 频道图标：在 3D 模式显示 CH，如果在 3D 模式下启用<自定义>波段设置，那么屏幕还将同时显示 RX1/RX2 的波段与频道信息，在 2D 模式显示 BAND 和 CH。

发射器操作指南





- 头部跟踪功能需要一个初始化时间，请在通电时让产品保持水平位置，并尽量稳定，待听见 1 “哔”声时表示初始化完成，即可开始使用头部跟踪功能，或者在本机保持稳定的状态短按<TRACK>按钮后，可正常使用。
- 短按<TRACK>按钮可将 PPM 信号复位至中心位置，并发出提示音。

- 在菜单中可设置 PPM 通道：CH5-CH6、CH5-CH7、CH5-CH8、CH6-CH7、CH6-CH8、CH7-CH8。
- Pan Tracking range：180 度（左右各 90 度）、120 度（左右各 60 度）、90 度（上下各 45 度），默认 90 度。
- Tilt Tracking range：120 度（上下各 60 度）、90 度（上下各 45 度）、60 度（上下各 30 度），默认 90 度。
- Pan Correction：通过此设置可单独补偿 Pan 的中心偏移，0~10 个等级可设置，实际补偿的角度跟云台转动角度有关。
- Tilt Correction：通过此设置可单独补偿 Tilt 的中心偏移，0~10 个等级可设置，实际补偿的角度跟云台转动角度有关。

- PPM Reverse：<Normal>为默认设置，<Pan>为该通道反向，<Tilt>为该通道反向，<Pan & Tilt>为两个方向都反向。

录像

- 建议首次装入存储卡时，对存储卡进行一次格式化操作。（见后面的 Format SD card 描述部分）。
- 在 RF Mode 和 AV IN Mode 都可以使用录像功能，正常情况屏幕将显示  和 <存储卡容量信息>，此时可按 <REC>按钮启动录像，启动录像后  以红色显示，并开始记录录制时间。
- 在预览状态，还可以按<PHOTO>按钮拍摄照片，并会发出提示音。（不能在录像过程中拍摄照片）。
- 默认情况录制视频的同时也包括声音，可以在系统菜单中关闭“录制声音”功能，则只录制视频信号。
- 您也可以关闭整个录像模块以节省电量。
- 为保证可靠性，在录像状态卡容量少于 0.5GB 则自动停止录像，当少于 0.01GB 时不能启用拍照功能。

回放

回放模式按钮的功能：

- 在 RF 模式或者 AV IN 模式长按<REC>按钮可进入回放模式。
- REC <播放/暂停/OK>按钮。
- PHOTO <停止/返回>按钮。
- BAND <上一个/快退>按钮。
- CHANNEL <下一个/快进>按钮。
- TRACK <删除>按钮。
- 在回放模式下将直接预览存储卡中的视频画面或照片，右上角显示文件名后 4 位编号，如果是视频文件，则会在文件名下方显示该文件的录制时长。
- 在播放视频文件过程中，可按<快进/快退>按钮进行 2X, 4X, 8X 快速播放，并按<播放>按钮恢复至正常速度，当播放完时，画面停留在该文件的第一帧画面上，此时需要按<停止>按钮返回至预览状态，执行其他操作或再次播放。
- 在浏览存储卡中的文件时，如果需要删除某个文件，则在浏览到该文件时按<删除>按钮，将弹出删除菜单，按<OK>按钮可删除当前文件。
- 本机可能不能正常识别除本机拍摄的文件以外的其他文件。

风扇

- 内置风扇不仅用于除雾，同时也可以对产品内部进行散热，在系统菜单中可设定风扇转速，POWER 按键可启动/关闭风扇。
- 视频眼镜支持 HDMI IN 功能，当插入 HDMI IN 连接线时，会自动关闭无线接收模块以节省电量。
- 识别到支持的分辨率格式则会自动显示画面，否则会显示内置 8 色阶测试图形。

HDMI 输入

- 可在图像设置菜单设置图像的 Brightness、Contrast、Saturation、Hue、Sharpness 参数，以达到个性化显示效果。
- 在要设置的功能项上按<OK>按钮将进入设置状态，按<UP/DOWN>按钮调节大小，并且图像上将实时显示调节效果，按<ESC>按钮返回上一层菜单。
- 建议在较清晰的图像画面状态设置这些参数。

图像调节

- 该 FVP 眼镜前置摄像头拥有 VGA 分辨率和良好的低照度特性，使得利用该功能可以非常简便的观察周围环境而不用摘下 FVP 眼镜。
- 在任何模式下都可以按<CAMERA>按钮快速打开前置摄像头。
- Front Camera 只设计用于临时取景观看周围环境，不可以录制该画面至存储卡，也不可以通过 AV OUT 输出该画面，在已经启用录制的情况打开 Front Camera 并不影响录制的画面。
- 在打开 Front Camera 的情况可正常切换模式。

前置摄像头

- 3D 模式只在 RF 模式下有效，其他模式自动切换为 2D 显示。
- 默认频道配置有 4 个，可通过<UP/DOWN>按钮调节频道，还可以在菜单中将 RF Band 设为“自定义”，然后选择合适的波段，并调节合适的频道。（请谨慎使用“自定义”功能，频率间隔太近将产生相互影响，建议的频率间隔约为 40MHz）。
- 此模式不支持频道搜索功能。
- 2D 模式
- 在菜单中关闭 3D 模式后，将以 2D 模式工作，并启动分集接收功能，菜单中 3D 模式项下的其他功能设置项将不起作用。
- 按<CHANNEL>按钮调节频道，按<BAND>按钮调节波段，可循环操作，屏幕上显示 BAND 和 CH 以及频率。
- 此模式支持频道搜索功能。

3D 模式

RF 模式

- 在任何模式下都可短按 CAMERA 按钮切换至前置模式。
- 在 2D RF 模式长按为搜索键，长按 3 秒进入频道搜索菜单或退出搜索菜单。

CAMERA Button:

- 在频道搜索状态为右选择。
- 在 MENU 状态为退出按钮。
- 在预览状态短按可切换模式。

MODE Button:

- 在频道搜索状态为左选择。
- 在 MENU 状态为确定按钮。
- 在 3D RF、2D RF、AV IN 模式短按可进行录像，再次短按可停止录像。

REC Button:

- 在 MENU 状态为下选择。
- 在 3D RF、2D RF、HDMI IN、AV IN、PLAYBACK 模式长按 3 秒可调节音量减。
- 在 2D RF 模式短按为波段按钮，可多次短按则循环调节波段。
- 在 3D RF 模式短按为频道减按钮。

BAND Button:

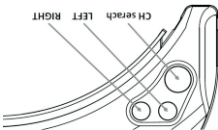
- 在 MENU 状态为上选择。
- 在 3D RF、2D RF、HDMI IN、AV IN、PLAYBACK 模式长按 3 秒可调节音量加。
- 在 2D RF 模式短按为频道按钮，可多次短按则循环调节频道。
- 在 3D RF 模式短按为频道加按钮。

CHANNEL Button:

- 为 FPV 眼镜安装好镜片、眼罩、天线以及存储卡。
- 将摄像头 SCAM302 与发射器连接好，并给发射器 STX202 通电，设置好工作频道，给 FPV 眼镜 SKY02X 接通电源，长按电源键开机（再次长按则关机）。
- 短按<UP/DOWN>按钮调节频道并与发射器保持一致，即可观看摄像头拍摄的画面。
- 可滑动 IPD 调节器调节瞳距。

频道搜索

• 按钮功能



- 长按<CH Search>按钮弹出频道搜索菜单



- 短按<CH Search>按钮则执行频道搜索（可重复执行），搜索功能按频率由低至高进行，搜索完 48 个频道后会自动工作在信号最强的一个频道，直方图显示各频道的信号强度，可按 LEFT 或 RIGHT 按钮手动选择频道，信号强度会实时更新。



- 退出搜索菜单时，会以当前搜索到的频道工作。

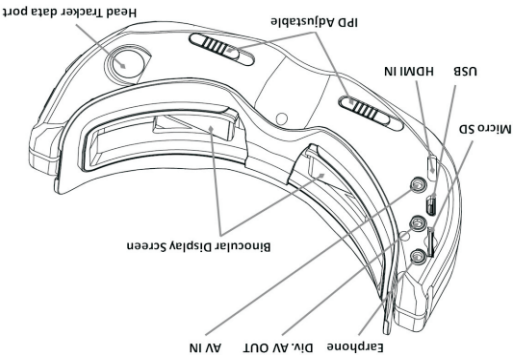
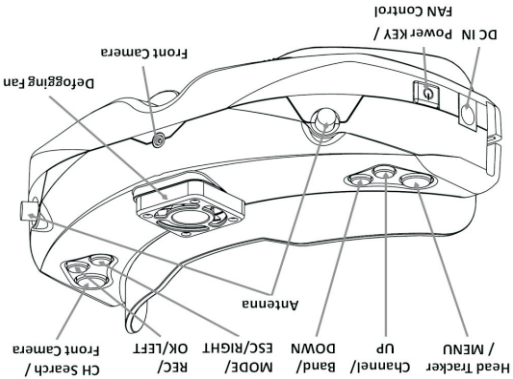
RF Racing

- <RF Racing>模式专为比赛而设定，此模式下只工作在 R 波段的 8 个频道，<CH>按钮调节频道加，<BAND>按钮调节频道减，频道搜索功能只扫描该波段的 8 个频道。

按钮功能（回放模式的按钮功能请见后面“回放”部分描述）

TRACK Button:

- 在正常模式短按为 Head Tracker 复位功能。
- 长按 MENU 按钮 3 秒可进入菜单设置状态。
- 在 MENU 状态使用该按钮切换 5 个主菜单。



操作指南

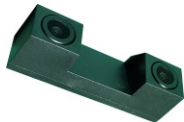
该 FPV 眼镜 SKY02X 内置两个 5.8GHz 接收机组及两个天线端口以及两个可独立工作的显示模组，实现 3D 视觉 FPV 飞行体验，在该模式下需要配套的 3D 摄像头 SCAM302 和双路发射器 STX202，3D 摄像头的两个镜头采用平行法进行拍摄，在拍摄一定远景的时候立体感增强，而拍摄远景的时候立体感将减弱，但整体将呈现更为生动的视觉体验。该 FPV 眼镜 SKY02X 同样可以在常规的分集接收模式下，在这种模式下以普通的 2D 图像显示，无线的频道和波段设置可以兼容 STX202 和其他 5.8GHz 发射器，支持 6 波段和 48 个频道（详细的波段和频道见规格描述）。



FPV 视频眼镜



便携收纳盒



SCAM302 摄像头(选件)



STX202 发射器(选件)



Futaba 遥控器



JR 遥控器



5.8G 2dBi 天线 X 4



5P 摄像头排线



3P 发射器视频连接线



电源线



音视频线



3D FPV 视频眼镜
使用手册

FPV GOGGLES

02X

SKYZONE

