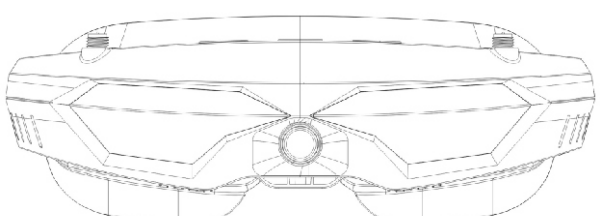
Flysight®

SpeXman One

SPX01

5.8GHz FPV Diversity Goggles



Instruction manual

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/ TV technician for help.

Declaration of Conformity

We declare on our sole responsibility that this equipment complies with the essential requirements of the Radio and Telecommunications Terminal Equipment Directive, 1999/5/EC, and that any applicable Essential Test Suite measurements have been performed.

CE2200

CE versions of the 5.8GHz FPV Diversity Goggles (M/N: SPX01) which display the CE symbol on the product label, comply with the essential requirements of the European Radio and Telecommunication Terminal Directive 1999/5/CE.

SpeXman One

SPX01

5.8GHz FPV Diversity Goggles

Feature:

Unique Picture in Picture Function

Foresight Camera with Wide View Angle

High Sensitivity Multi-Channel Diversity FPV Goggles

Support HDMI1.3 In

Support Next-wave&Air-wave VTX w/o Distorted Image

Support 2S-6S LiPo Battery

Battery Reminder in the Menu

Multiple Diopter Lens Optional

Support Adjustable Interpupillary Distance

Cool & Futurist Outlook

Safety Notice

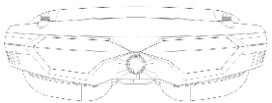
Warning

- Do Not expose the display area directly in the sun, Optical components will focus the sun, which causes irreversible damage to color liquid crystal display element. This is out of warranty range.
- In order to reduce the damage of fire, electric shock or product hazard, do not expose the SPX01 in the rain and moisture.
- Please use only the recommended accessories.
- Do not disassemble this product, it should be repaired by the professional people.

Caution

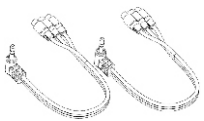
- The magnetic field with certain frequency may affect the image and sound of this device.
- DO NOT install or store this device in book cabinet, closet or other closed spaces to avoid such risks as electronic shock, fire and so on due to overheat.
- DO NOT place this device near open fire.
- This device is not dust-proof, waterproof, please note when using.

Package Content

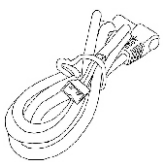


SpeXman One SPX01

2X 5. 8G Antenna



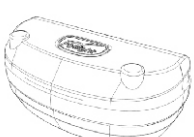
2x AV-Out Cable



12V DC-Cable with BEC-Plug

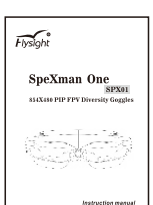
Cable for Futaba RC

Cable for JR RC



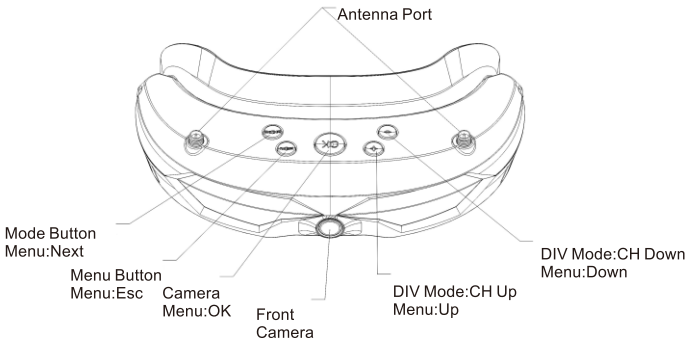
Spectacle Case

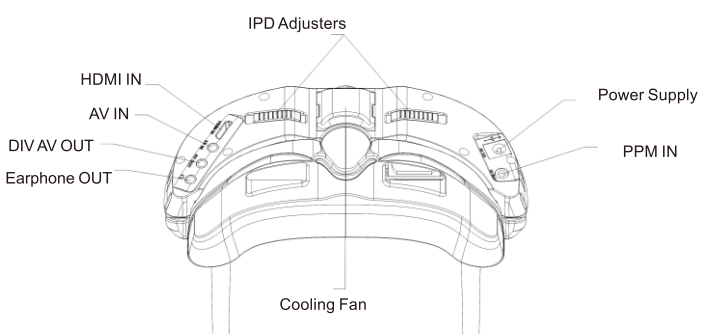
Cleaning cloth



Manual

Function Icons





Operation Instruction

● Press “MODE” Button to change DIV、AV IN、HDMI IN working Modes.
● In DIV mode, you may firstly enter Menu→General Settings →RF Band, set RF Band to be at the same band with the VTX,then can receive the video.
● In MODE setting mode,<MODE>button can choose menu, <OK> button can enter current function setting, <+>button、<->button can adjust value,<MENU> button can return the former layer menu.

DIV Mode

The due antenna diversity receiver is made up of ANT1、ANT2 and receiving circuit,according to their RSSI output,the device can keep receiving the strongest signal all the time. and maximize image display stability.

● < - > and < + > button controls the channel change.
● DIV AV OUT outputs diversity receiving signal for video recorder and external display purposes.
● **DIV AV OUT ONLY works under the diversity mode.**

AV IN Mode

● For inputting external video and audio signal.
● In AV IN mode, wireless receiving circuit automatically shut down to save battery life.

HDMI IN Mode

● HDMI can input HD video to show much clearer image,and automatically adapt to the resolution (the maximum input 1920X1080/60Hz)
● In HDMI mode,wireless receiving circuit automatically shut down to save battery life.
● Press the mode button in the HDMI mode, may slow response,waiting for about 11seconds to start HDMI function, this is a normal phenomenon.

Video Setting

● Users can change the image display effect by brightness, contrast, saturation, hue, sharpness Settings.

PIP(Picture in Picture) Function

- Enter Menu→General Settings→PIP, set <PIP>at <ON> to start picture in picture function.
- Press<MODE>button to choose<Size>, Press<+>、<->button to choose picture size: 420x240pixel、266x160pixel、133x80pixel;press<MODE>button to choose<Position>, and press<+>、<->button to choose sub-picture's position,8 optional positions,please set it according to your need.
- User normal model,long press <OK>button to start or close PIP function.

Foresight Camera Function

Under DIV、AV IN、HDMI mode,short press<OK>button can fast switch to foresight video to view the surrounding environment conveniently.

- **When showing the foresight video,the PIP function will be forced to close,and other functions will stop working either.**
- **When switching modes,foresight video will be forced to close.**

Operation by RC

Control the foresight video and PIP functions of the unit by PPM signal,firstly enter Menu→System Settings→PPM Channel, set up PPM channel well, assign one"3"files switch on the RC,for example:H—C（center）L, C—C starts PIP or C—L—C(close PIP)，C—H(starts foresight video)，H—C(close foresight video).

Electric Quantity Indication

When using battery for this product,you can choose the corresponding battery serial number: 2S、3S、4S、5S、6S;

- when using,it won't monitor the voltage changing.
- Based on Li battery characteristics to calculate capacity.

Operation Instruction

Volume

You can change the volume in Menu→General Settings→Volume.

To avoid too much noise from wireless receiving in the DIV mode, the volume level is not saved, when power outage, the volume needs to be set again.

Display Scale

Control the input images displayed in a 4:3 or 16:9, work in 16:9 full-screen mode as default.

Menu Display

Can set the icon on the screen to display time and transparency.
Can set menu to display time and transparency.

Reset Menu

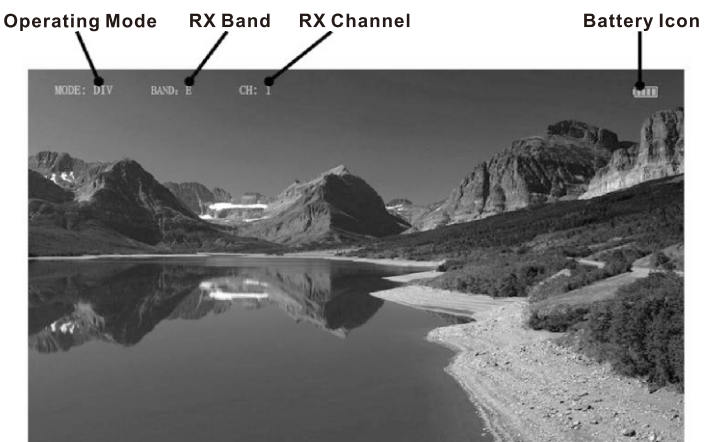
Enter reset menu,choose"Yes", press"OK" to restore all menu items to factory settings.

About Temperature

The product is working with high temperature,this is a normal phenomenon because of the PIP and HDMI functions; the cooling fans is working as default once the product is powered on,press <MODE> to turn off /on the fan.when the fan is off, the temperature is hotter,the built-in fan will starts automatically to release the hot,after the temperature becomes lower,the fan will be off automatically,you can't turn off the fan by hands at this situation.

Incons on the Screen

-Different work mode, different icon is displayed on the screen.
-When battery icon showing it means low battery,please change battery.



Specification

Display	FOV	30 degrees (Diagonal)							
	Resolution	854X480(WVGA)							
	Luminance	350cd/㎡							
	Interpupillary distance（IPD）	59.5—69.5mm(adjustable)							
Wireless Receiver	5.8GHz ISM 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
	Sensitivity	-90dBm±1dBm							
	Channel	32Channel (4 Band X 8 Channel)							
	Antenna Port	2 X SMA,50ohm							
	Diversity receiving	Antenna diversity							
	TV System	NTSC/PAL							
	Video output level	1.0Vp-p Typ,75ohm							
	Audio output level	1.0Vp-p Typ,10Kohm							
Interface	AV IN(Φ3.5,4p)	Video、Stereo Audio input							
	HDMI IN (C Type)	Support HDMI 1.3 Digital Input, Support HDMI Audio in Support resolution: 1920x1080p50、1920x1080p60、1920x1080i50、1920x1080i60、1280x720p50、1280x720p60、720x576p50、720x480p60、720x576i50、720x480i60.							
	DIV AV	Diversity receiving, Video、Audio output							
	EAR OUT(Φ3.5,3p)	Stereo 16Ω/150mW							
	PPM IN(Φ3.5,3p)	Support 8 channel PPM IN							
Front Camera	FOV	100 degrees (Diagonal)							
	Resolution	640X480(VGA)							
Power Supply	DC IN	7～28V/ 1A							
	Consumption	6.8W/12V							
Dimensions		169X70X42mm(not include prominent part)							
Net Weight		182g							
Working Temperature		-10℃～+65℃							