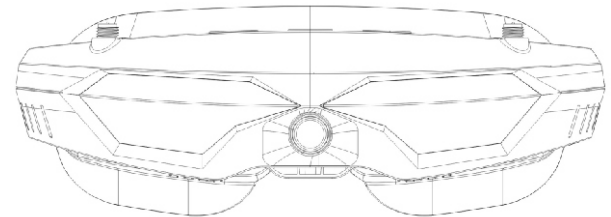




SpeXman Two

SPX02

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.
 - (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.

CE statement

The equipment is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC.

C € 2200

SpeXman Two

SPX02

5.8GHz FPV Diversity Goggles

Features

Unique Picture in Picture Function
Wide Angle Camera
High Sensitivity Multi-Channel Diversity Receivers
HDMI 1.3 Input, 100% Compatible with Phantom 3/4 and Inspire
Full Nexwave and Airwave Support
One Button Operation on Contrast & Brightness
Central Mark Helpful for Race Drone
Support Focus Assist & False Color
2S-6S Input (7-28v)
Adjustable Interpupillary Distance
Comfortable Multi-type Eye Cups
Micro Portable Battery switching between 7.4V & 12V
Cool Futuristic Design

Safety Notice

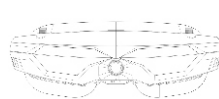
Warning

- Do not expose the lenses to direct sunlight. The lens will focus the sun's energy and damage the LCDs irreparably. This is not covered under warranty.
- Do not expose the SPX02 to water or moisture.
- Please use only the recommended accessories.
- Do not disassemble the product. There are no user serviceable parts inside.

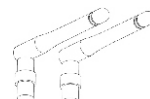
Caution

- Avoid magnetic fields - they may affect the performance of the device.
- Keep away from open fires.
- This device is not dust proof or waterproof.

Package Contents



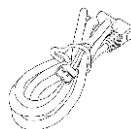
SpeXman Two SPX02



2 x 5.8G Antennas



2 x AV-Out Cables



**12V DC Cable with
BEC Plug**



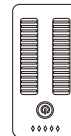
Cable for Futaba RC



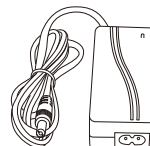
Cable for JR RC



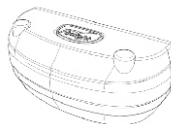
HDMI Cable



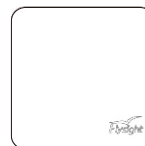
Battery



Power Supply



Goggles Case

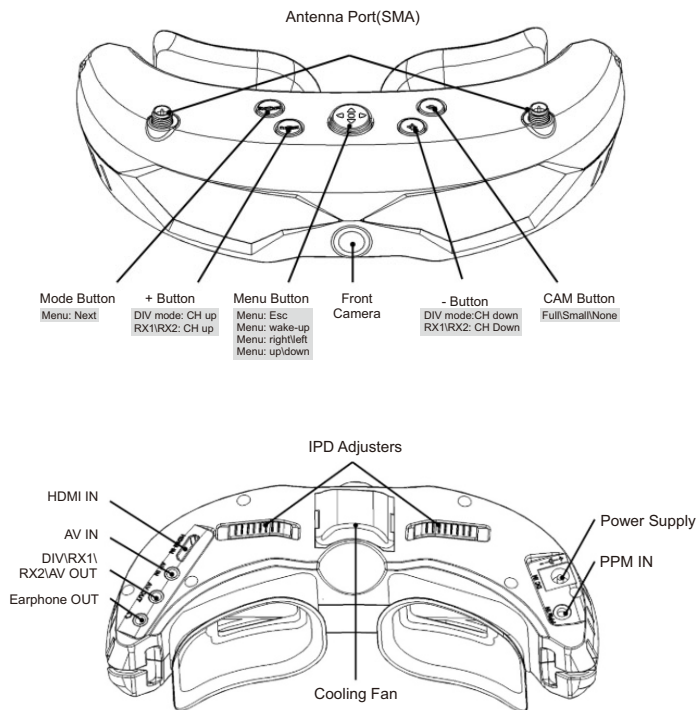


Cleaning Cloth



User Manual

Function Icons



Operation Instructions - Modes

- Press the <MODE> button to switch between DIV, RX1, RX2, AV IN, or HDMI IN modes.

DIV Mode

- In this mode the goggles constantly compare the RSSI of ANT1 and ANT2, and then switch to the strongest signal.
- DIV AV OUT port outputs Diversity signal for your video recorder or external display.
- **DIV AV OUT only works in DIV mode.**

RX1、RX2 Mode

- Enter Menu→RX1 Band、RX2 Band, you can press <Menu> button left and right to adjust bands. Such is single RF module working.
- AV OUT port output DIV、RX1、RX2 signals for recorder、sexternal use and so on.
- **AV OUT is only working under DIV、RX1、RX2 modes.**

AV IN Mode

- Enjoy your external video and audio signal by connecting through the AV Port.
- Wireless receivers are automatically turned off in this mode to save power.

HDMI IN Mode

- For a clearer image switch to HDMI input. The goggles will display a maximum input of 1920x1080/ 60Hz.
- Wireless receivers are automatically turned off in this mode to save power.
- **Please note that you may experience a delay of up to 5 seconds before the function starts after selecting the HDMI mode.**

Operation Instructions - Menu Screens

Front Facing Camera Function

- While in any of the Modes tap the <cam> button to enable the front facing camera function, this will switch the goggles to a small screen display of the feed from the forward facing camera. Tap <cam> again to a full screen, then tap <cam> again to return to the previous Mode.
- **Please note that you will lose PIP when getting the full screen switching to the front facing camera function.**

Main Menu and Navigation

- The battery volume icon is displayed on the top right side of the screen. When the mark is red and flashing, please charge it in time.
- Press the <Menu> button to view either the General Settings or System Settings.
- Use the <Menu> button to move between the different icons, you can press <Menu> button up and down to choose function menu, you can also press <Menu> button left and right to adjust the value, after finishing setting, please press <MENU> button to quit.

General Settings

> RF Band

- Use the <menu> left and right button to select the correct band, press <+> or <-> to select channel to match your transmitter.

> Volume

- Use the <menu> left and right button to reduce or increase the volume.
- When powered off previous settings will be saved.

Operation Instructions - Menu Screens

> Image

- Use the <menu> left and right button to adjust Brightness, Contrast.

> PIP Function (Picture in Picture)

- To enable PIP select <cam> .
- The secondary image can be made smaller or larger by selecting Size. Cycle through the two sizes of 200x150, 320x240 pixels using the <menu> left and right button.
- The thirdly image can be moved by selecting Position. Toggle between the four positions by using the <menu> left and right buttons.
- Press the <cam> button to activate and deactivate the PIP on screen.

System Settings

> Power

- Powering on the goggles, a battery cell count to get accurate power levels on your display.

> Language

- Change the language used in the menu.

> PPM Channel

- Select the channel for binding your RC transmitter to the goggles, you can then assign switch positions for activating/ deactivating PIP or the front facing camera.

> Central Mark

- Central Mark, help you get better image position.

Operation Instructions - Menu Screens

> False Color

- False color can be intuitive observation and calculation in the scene lighting levels, make brightness or lighting value mapping for the display brightness of false color, from the darkest to the brightest, in turn display blue, cyan, green, yellow, orange and red.

> Focus Assist

- Assist focus is used in obtain the sharpest possible picture. This feature is most effective when the subject is properly exposed and contains enough contrast to be processed.
- Peaking: Focus in red outline to display focus area visually, making object highlighted. It's available for focusing with DSLR and camcorder.

> Fan

- Return the goggles to factory default settings.


> Reset menu

- You can adjust the fan status: On/Off/ Auto.

Important Information regarding Operating Temperature

When using the PIP function or HDMI input you can expect the unit to operate at a higher temperature. To avoid the equipment from overheating the fan on this unit will turn on automatically.

On-Screen Icons

- 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/m ²								
	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
		R	5658M	5695M	5732M	5769M	5806M	5843M	5880M	5917M
	Sensitivity	-90dBm±1dBm								
	Channel	40Channel(5BandX8Channel)								
	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℃								