Flysight®

SpeXman One

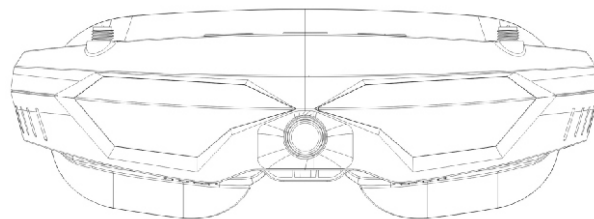### SPX01

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.
   (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.

$C\epsilon$ 2200

SpeXman One

SPX01

5.8GHz FPV Diversity Goggles

Features

Unique Picture in Picture Function

Wide Angle Camera

High Sensitivity Multi-Channel Diversity Receivers

HDMI 1.3 Input

Full Nexwave and Airwave Support

2S-6S Input (7-28v)

Adjustable Interpupillary Distance

Cool Futuristic Design
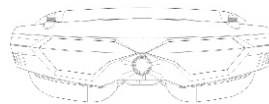
Safety Notice

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 SPX01 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
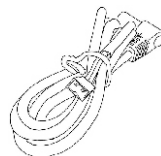

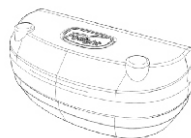SpeXman One SPX01

2 x 5.8GHz Antennas
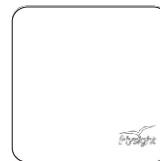

2 x AV-Out Cables

12V DC Cable with BEC Plug

Cable for Futaba RC

Cable for JR RC

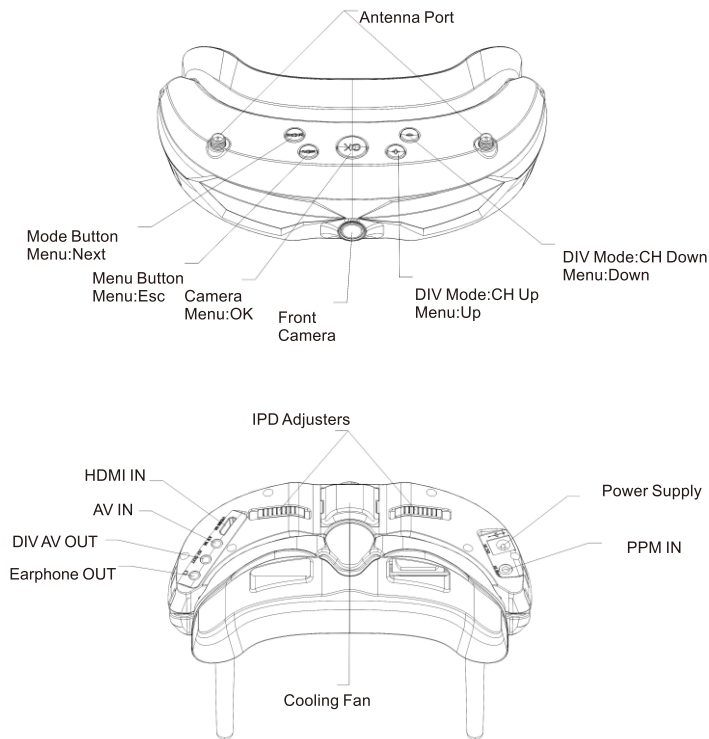Goggles Case

Cleaning Cloth

User Manual

Function Icons

Antenna Port

Mode Button
Menu:Next

Menu Button
Menu:Esc   Camera
              Menu:OK   Front
                        Camera

DIV Mode:CH Down
Menu:Down

DIV Mode:CH Up
Menu:Up

IPD Adjusters

HDMI IN

AV IN

DIV AV OUT

Earphone OUT

Power Supply

PPM IN

Cooling Fan

Operation Instructions - Modes

● Press the <MODE> button to switch between DIV, 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.**

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 11 seconds before the function starts after selecting the HDMI mode.**

Front Facing Camera Function

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

Main Menu and Navigation

● Press the <Menu> button to view either the General Settings or System Settings.
● Use the <Mode> button to move between the different icons, <OK> to select the highlighted icon, and <Menu> to return to previous screens.

General Settings

> RF Band

● Use the <-> and <+> buttons to select the correct band to match your transmitter.

> Volume

● Use the <-> and <+> buttons to reduce or increase the volume.
● When powered off volume levels will reset to 0, previous settings will not be saved.

> Image

● Use the <-> and <+> buttons to adjust Brightness, Contrast, Saturation, Hue or Sharpness.

> PIP Function (Picture in Picture)

● To enable PIP select Menu > General Settings > PIP and switch to <ON>.
● The secondary image can be made smaller or larger by selecting Size. Cycle through the three sizes of 420x240, 266x160 and 133x80 pixels using the <-> and <+> buttons
● The second image can be moved by selecting Position. Toggle between the eight positions by using the <-> and <+> buttons.
● Long hold the <OK> button to activate and deactivate the PIP on screen.

System Settings

> Power

● Select a battery cell count (eg 3S) to get accurate power levels on your display.

> Language

● Change the language used in the menu.

> Display Ratio

● 16:9 or 4:3 Aspect ratio

> Menu Show

● Choose to have the Menu and OSD information appear on screen permanently or disappear after a set amount of time or configure the transparency of the overlay.
● The settings for the Menu and OSD information are independently configurable.

> 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.

> Reset menu

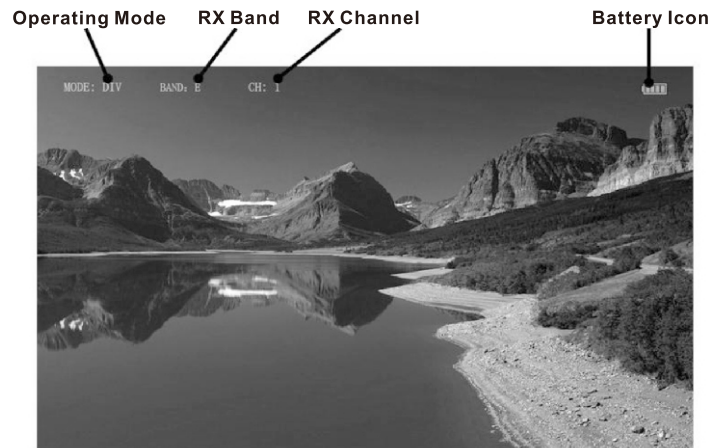● Return the goggles to factory default settings.

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

Please see annotated diagram below.

When the battery is low the battery low icon will show like this 🔋 . You should change battery.

Operating Mode   **RX Band**   **RX Channel**   **Battery Icon**

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℃								