

# SKYZONE

**SKY01**

**FPV GOGGLES**

**USER MANUAL**

## System Content



FPV GOGGLE



Carry case



Futaba data cable



JR data cable



WFLY data cable



AV cable

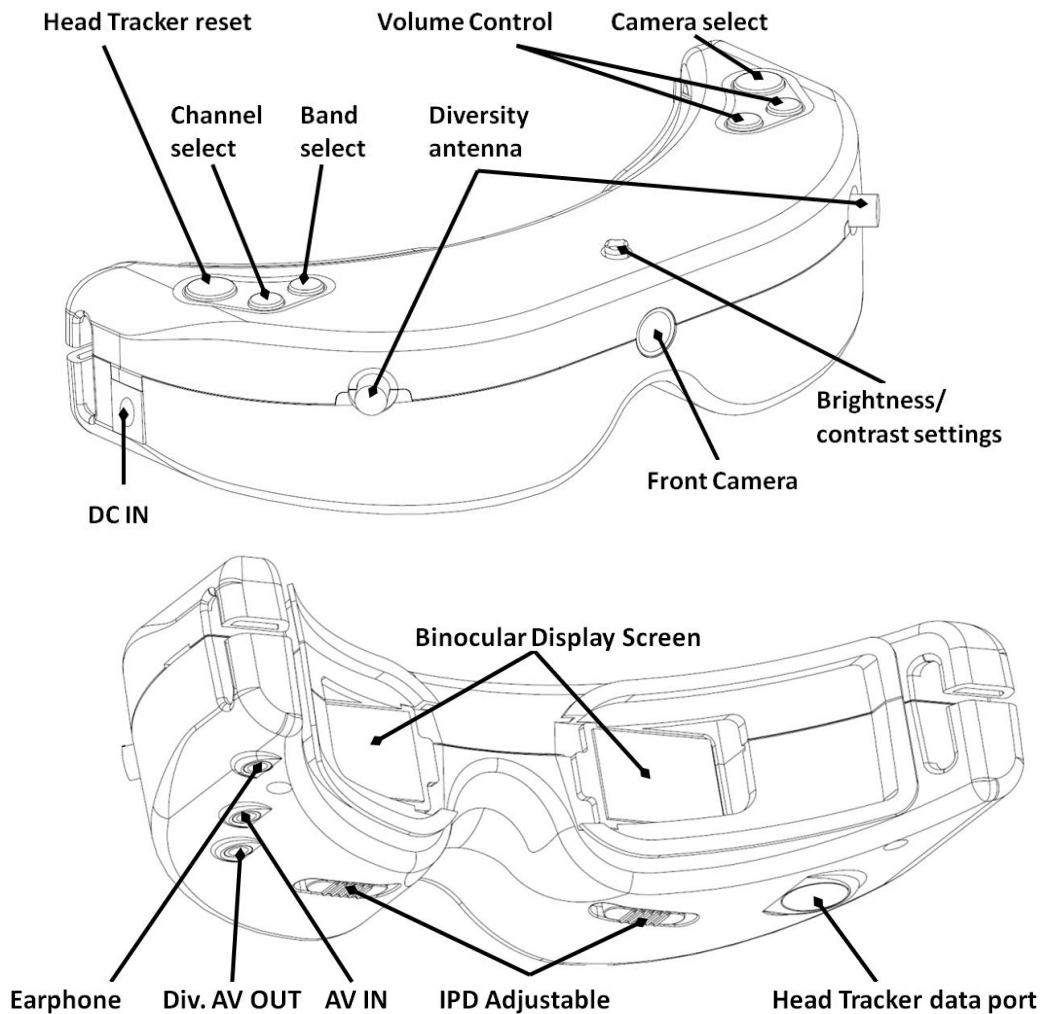


Power cable



5.8G 2dBi antenna X 2

# Function Diagram



# Operation Instruction

## Wireless

The FPV Goggles with Built-in 5.8Ghz Diversity Receiver and diversity Antenna inputs for best reception. It working in diversity mode to achieve good signal utilization and improve the image quality.

It supports **5 Bands** and total **40 channels** (Bands selection and Resulting Frequencies see details in Specifications)

## Bands Setup

- Long Press Button "BAND" to enter Bands setup (beeps indicating the current band) and press the Button "Band" again within 3 seconds to select the Bands. Different beeps refer to different Bands.
- It'll return to normal working mode after 1 short beep if there is no operation within 3 seconds.
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Beep	Receiver BAND
1 short beep	Band 1
2 short beep	Band 2
3 short beep	Band 3
4 short beep	Band 4
5 short beep	Band 5

## Channel Setup

- Press Button "CH" once to select from CH1 to CH8. Different beeps refer to different channels.

Beep	Receiver Channel
1 short beep	CH1
2 short beep	CH2
3 short beep	CH3
4 short beep	CH4
5 short beep	CH5
6 short beep	CH6
7 short beep	CH7
8 short beep	CH8

## Head Tracker

### PPM Channel Setup

- Press and Hold Button "TRACK", then connect power to enter Head Tracker Setup Menu (Release as soon as beep). Head Tracker beeps indicating the current PPM Channel. See details below.
- Short Press "TRACK" Button to select different PPM Channels. Long Press the button to enter Pan Tracking Range setting mode.

Beep	PPM Channel
1 short beep	Pan CH5,Tilt CH6 (Factory default)
2 short beep	Pan CH5,Tilt CH7
3 short beep	Pan CH5,Tilt CH8
4 short beep	Pan CH6,Tilt CH7
5 short beep	Pan CH6,Tilt CH8
6 short beep	Pan CH7,Tilt CH8

### Pan Tracking Range Setting

- 1 long beep refers to 90 degrees, 2 long beeps refer to 180 degrees
- Short Press "TRACK" button to change the working Range with corresponding beep
- Long press "TRACK" to return (with 1 short beep) PPM channel setup mode.

**Please disconnect the power after setup and then reconnect to enter normal working mode.**

**Short press "TRACK" button is ok to setup head tracker into Center position while working.**

## Front Camera

- The Front Camera is Wide-Angle Camera with 680X480(VGA) Resolution and good low Illumination. It's very convenient to view around without taking off the Goggles.
- Press "Camera" button to open the Front Camera.

## Volume

- Each boot is automatically set to the lowest volume to avoid sudden loud boot.
- A long beep indicates that you have reached the MAX or MIN Volume. .

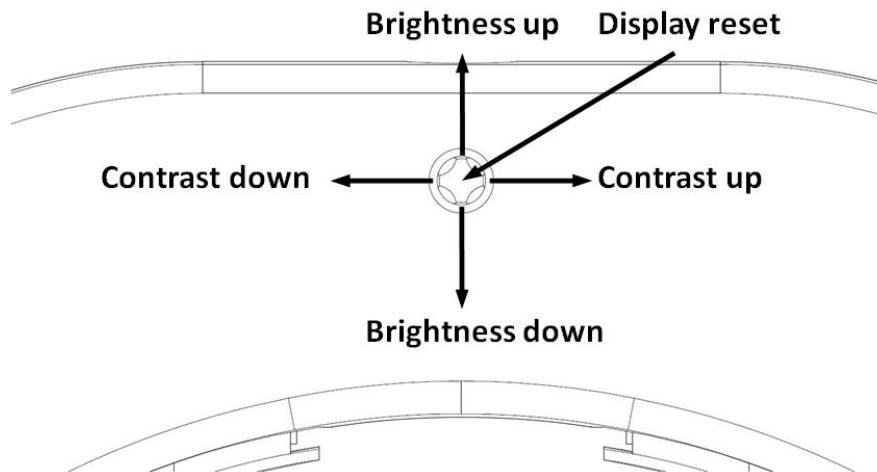
## Display Setup

### Interpupillary distance (IPD) Adjustable

- Pull the IPD Adjuster to adjust the interpupillary distance

### Brightness/ contrast settings

- It's easy to setup the Brightness/Contrast with the 5-direction switch. Short press is to adjust gradually, long press is to adjust continuously. It will auto saved if there is no operation within 5 seconds.
- Press Center button 3 seconds to setup Brightness/Contrast to factory default.



## AV input

- The goggles support AV IN. The wireless model will close when the AV IN is connected to save power.
- The Front Camera is ok for use under AV IN mode.

## AV output

- AV Out is the diversity Video and Audio output
- Earphone port is audio output for connecting earphones.

# Specifications

Binocular Display	FOV		30 degrees (Diagonal)						
	Resolution		854X480(WVGA), 1,229,760 color sub-pixels						
	Brightness		350cd/m <sup>2</sup>						
	Interpupillary distance (IPD)		60-68mm Adjustable						
Wireless Receiver	ISM 5.8GHz <b>40 Channel</b> , Diversity receiver.								
	Band	CH 1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
	1	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M
	2	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5866M
	3	5705M	5685M	5665M	5645M	5885M	5905M	5925M	5945M
	4	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M
	5	5658M	5695M	5732M	5769M	5806M	5843M	5880M	5917M
	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)		32Ω /75mW or 16Ω /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			<b>344g (Not include package box)</b>						
Operating Temperature			0°C~+55°C						