# HD FPV GOGGLE
*Immersion GO*
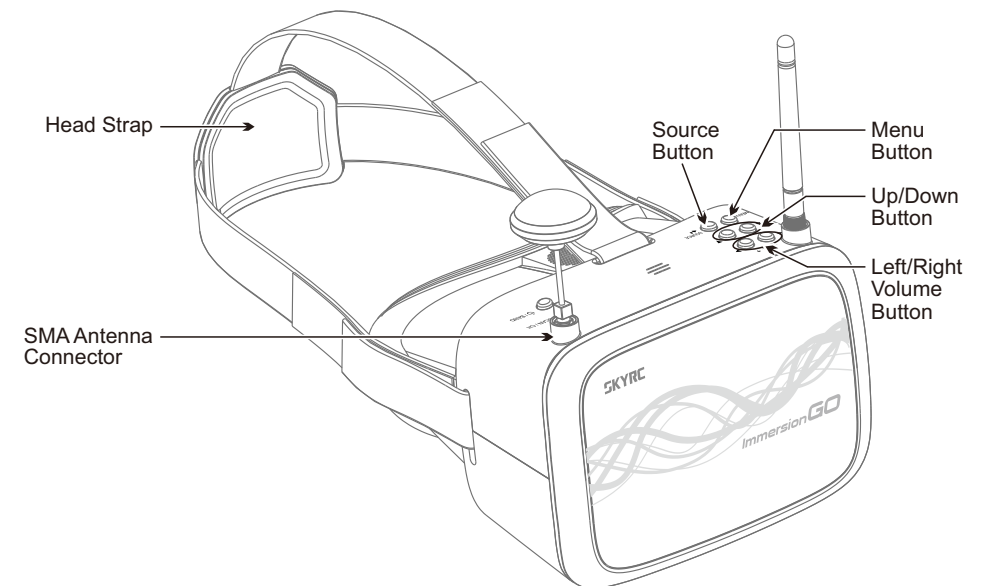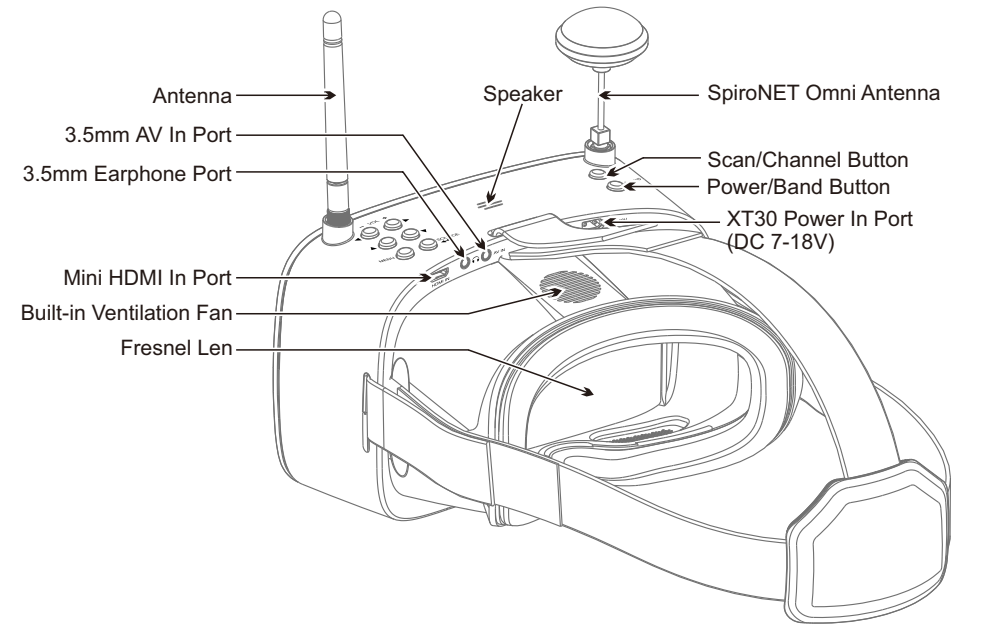
## Instruction Manual
[Version 1.0]
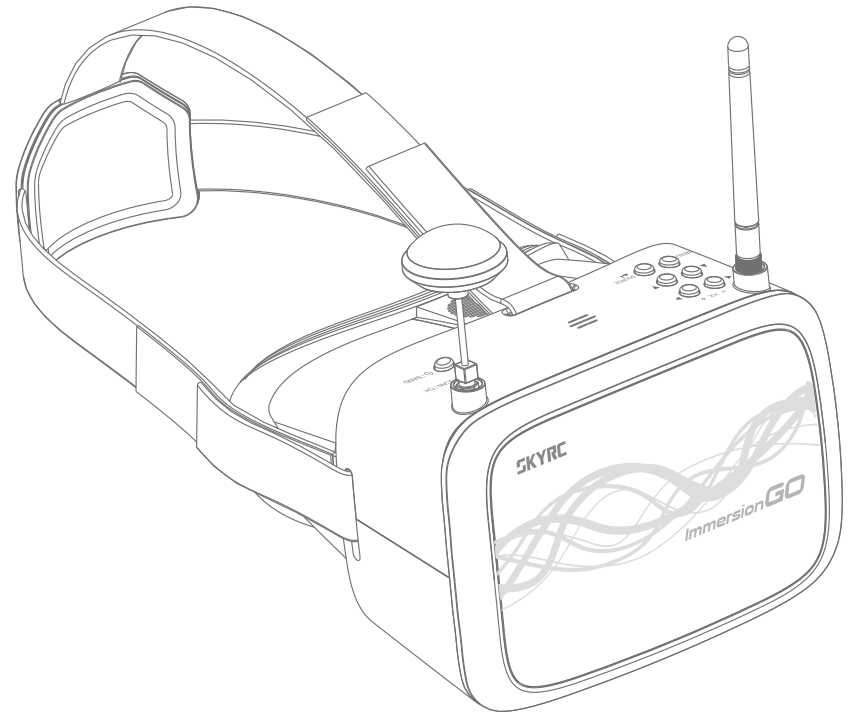
CE FC ✓ RoHS

**SKYRC**

Congratulations on purchasing the SKYRC HD FPV goggle with integrated Diversity Receiver. To ensure your continued enjoyment, please take the time to read through this operating manual thoroughly before using.
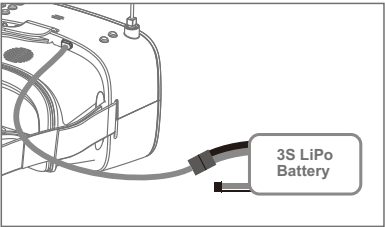
The SKYRC HD FPV goggle with 5.8GHz diversity receivers, can significantly improve reception in the presence of multipathing, by intelligently switching between two independent receivers when signal quality drops.

Another useful application of diversity switching is to select the best signal from two antennas, use a patch, and an omni directional antenna to provide 360 degree coverage or use two patch antennas to cover a wider flight area.

The goggle keeps it super simple for the FPV flier with auto search functionality, easy press buttons, the exact frequency is displayed on the screen so that you never have to guess which frequency and channel you are on, a wide voltage input from 7V to 18V, and 40CH on the 5.8GHz band!

Antenna

Speaker

SpiroNET Omni Antenna

3.5mm AV In Port

Scan/Channel Button

3.5mm Earphone Port

Power/Band Button

XT30 Power In Port (DC 7-18V)

Mini HDMI In Port

Built-in Ventilation Fan

Fresnel Len

Head Strap

Source Button

Menu Button

Up/Down Button

Left/Right Volume Button

SMA Antenna Connector
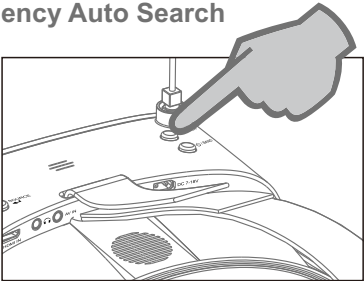
## Power ON the System

Connect battery to the goggle.
Input voltage is 7-18V and recommended
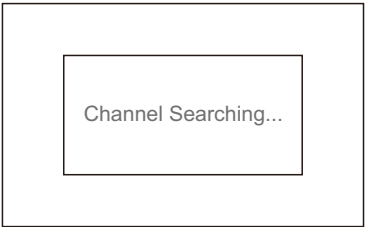2-4S LiPo. (Battery is NOT INCLUDED)

3S LiPo Battery
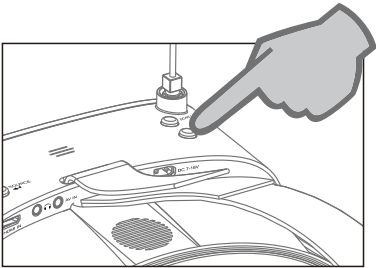
Press and hold power/band
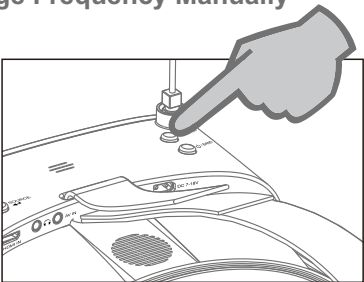button for 3 seconds to
turn it ON.

## Frequency Auto Search

Press and hold search/channel button
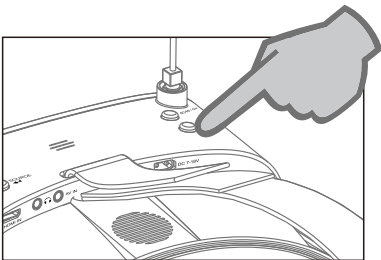for 3 seconds to start the auto search.

Channel Searching...

It takes around 20 seconds to identify
the channel. Auto search will stop if the
frequency is found.

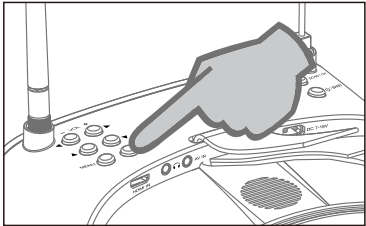## Change Frequency Manually

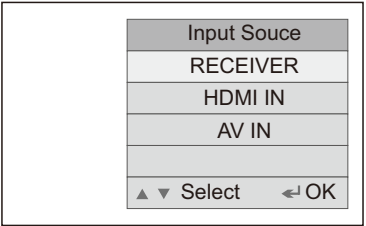Press SCAN/CH button once to change
the frequency.

Press BAND button once to change
the band.

## Select Input Source

Press SOURCE button once to
select input source.

| Input Souce |
| --- |
| RECEIVER |
| HDMI IN |
| AV IN |
| |
| ▲ ▼ Select    ↵ OK |

Press ▲ or ▼ to select. and Press ↵ to
confirm.

## Volume Control
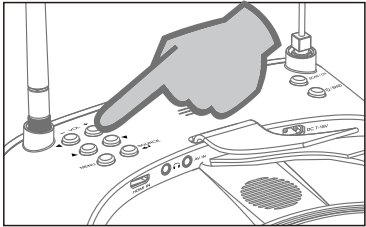
Press + button to increase volume
Press - button to decrease volume
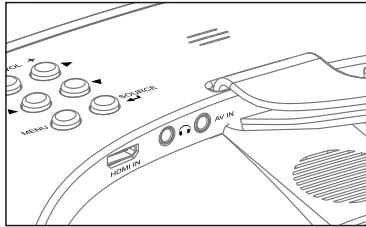
Standard earphones can be used with the
goggle.

Ⓐ     Ⓑ     Ⓒ     Ⓓ     Ⓔ

| ① RECEIVER | Battery 15.6V | Freq(GHz): 5925 | SignalA: 104 | SignalB: 99 |
| --- | --- | --- | --- | --- |
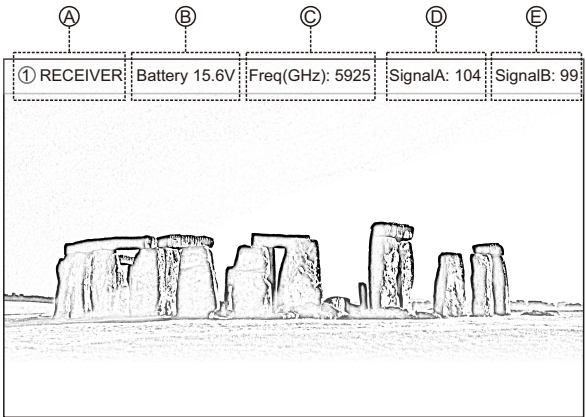
A: Signal Source: Built-in 5.8G RECEIVER / AV IN / HDMI IN
B: Battery Voltage for FPV GOGGLE
C: Selected Frequency
D: Signal Intensity A
E: Signal Intensity B

Setting menus can be accessed at any time to change or adjust a variety of system setting, such as screen, sound mode and options. To view the menus, press the MENU button on the goggle.

## Basic Menu Setting

1. Press the MENU button on the goggle.



A: Setting category
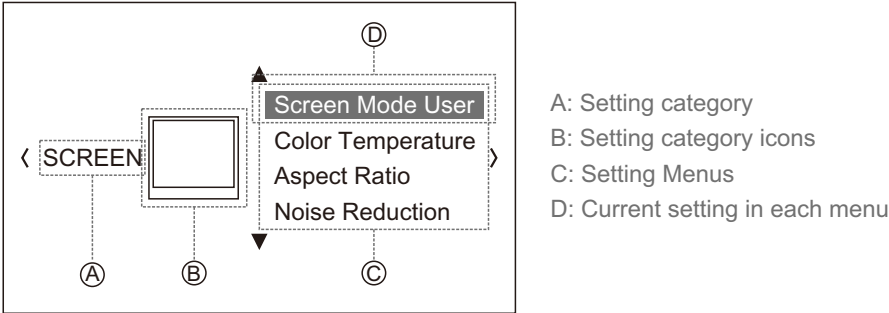B: Setting category icons
C: Setting Menus
D: Current setting in each menu

Screen Mode User
Color Temperature
Aspect Ratio
Noise Reduction
SCREEN

2. Press ◄ or ► to select the desired setting category,
3. Press the ▲ or ▼ to select the desired menu, and then press⏎ button confirm the selection. (Press MENU button to exit selection)
4. Press the ◄ or ► to change or adjust setting as needed.

### Screen

| Screen Mode | **Dynamic:** For sport video sources.<br>**Standard:** Emphasizes a natural picture. Standard picture quality for a variety of video sources.<br>**Mild:** Mild colors and mild contrast.<br>**User:** Contrast: 0-100  Brightness: 0-100<br>     Color: 0-100    Sharpness 0-100  Tint: 0-100<br>**Vivid:** Vivid colors and sharp contrast, for concerts, sports, and other televised content. |
|---|---|

| Color Temperature | Adjusts image color temperature.<br>**Cool:** Cool blue color tones.<br>**Medium:** Color tones between "Cool" and "Warm".<br>**Warm:** Warm red color tones.<br>**USER:** Red: 0-100  Green: 0-100  Blue: 0-100 |
|---|---|
| Aspect Ratio | **FULL:** Displays 4:3 content in full-screen, stretching the images horizontally. 16:9 Content is displayed at original aspect ration in full-screen.<br>**4:3 :** Displays the images at the original 4:3 aspect ratio. |
| Noise Reduction | Reduces random image noise, similar to static.<br>**Off/Low/Medium/High/Default:** Select the level of this effect.<br>**Off:** Deactivates this function. |

### Sound Mode

| Sound Mode | **Standard:** Provides standard surround-sound with moderate reverberation. Creates spacious soundstage for a range of content.<br>**Music:** Emphasizes detail and purity of source audio. Faithful reproduction, similar to monitor equipment at recording studios. A good choice for music, sports, and documentaries.<br>**Movie:** Emphasizes a natural soundstage, especially for spoken dialog. Surround-sound with a soundstage rivaling the impressive acoustics of movie theaters. Immersive, with each channel blended naturally. A good choice for movies.<br>**Sports:** Provides pinpoint sound localization, for a clear sense of where sounds originate. A good choice when playing immersive content such as games with multi-channel surround-sound effects.<br>**User:** Treble: **0-100**  Bass: **0-100** |
|---|---|

| Balance | Adjust the sound level of right channel and left channel.<br>**-50 to +50** |
|---|---|
| Auto Volume | When this feature is turned on, it helps to avoid volume fluctuation when changing the channels.<br>**On / Off** |
| Surround Sound | Surround Effect<br>**Off / Surround / Trusurround** |
| Equalizer | The equalizer setting allows you to set the bass middle and treble level manually.<br>**120Hz: 0-100    500Hz: 0-100    1.5KHz: 0-100**<br>**5KHz: 0-100    10KHz: 0-100** |

**Options**

| OSD Language | Sets the language used for menus and other interface elements.<br>**Deutsch / English / Español / Français / Русский / 中文** |
|---|---|
| Fan Control | Ventilation fan can be turned on or off.<br>**On / Off** |
| Blending | Making background transparency to OSD.<br>**Off / Low / Medium / High** |
| OSD Duration | OSD display time.<br>**Off / 5 Sec / 10 Sec / 15 Sec** |

## LCD Display
- Screen Size: 7"
- Screen Resolution: 1024x600
- Field of View: 65 Degree
- Display Scale: 4:3 or 16:9
- Respond Time: 10mS
- System: PAL/NTSC Auto Selecting

## Diversity Receiver
- Dual Receivers with Dual Antenna Connection.
- Automatic Antenna Switching.
- >-90dB Typical Sensitivity.
- 5.8GHz 5 Band 40 Channel Frequencies.

## Interface Connectors
- 3.5mm AV In Port
- 3.5mm Earphone Port
- XT30 Power In Port (DC 7-18V)
- Mini HDMI In Port
- 2 SMA Antenna Connectors

## General
- Control via 8 Buttons
- High Comfortable with Durable Materials
- Adjustable Straps
- Built-in Speaker with Volume Control
- Built-in Ventilation Fan
- OSD Language
- Weight: 380g(Excluding Antennas)
- Size: 195x139x180mm
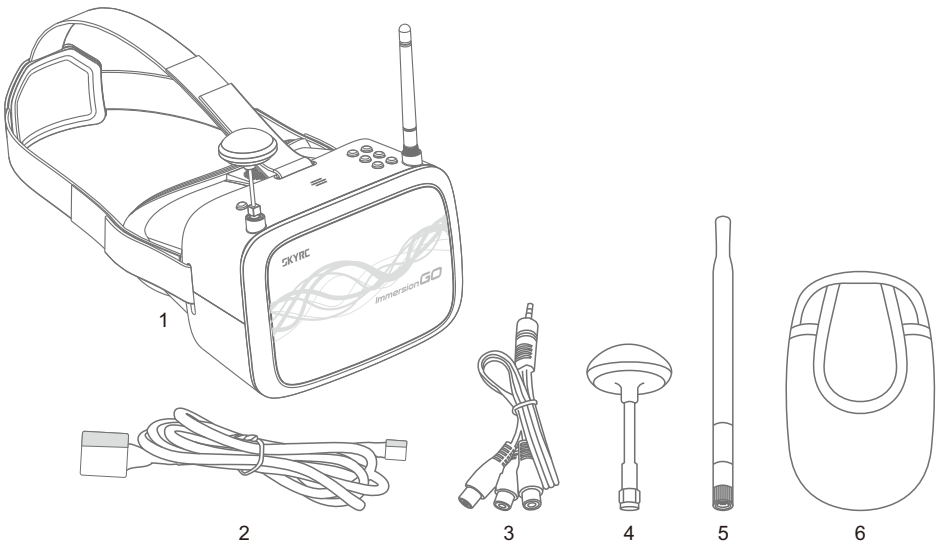
## Electrical Properties
- Supply Voltage: 7-18V  Recommended 2-4S LiPo
- Reverse Voltage Protection
- Current Consumption 530mA@12V

## Frequencies

| BAND | CH1 | CH2 | CH3 | CH4 | CH5 | CH6 | CH7 | CH8 |
|------|-----|-----|-----|-----|-----|-----|-----|-----|
| A | 5740 | 5760 | 5780 | 5800 | 5820 | 5840 | 5860 | 5880 |
| B | 5725 | 5745 | 5765 | 5785 | 5805 | 5825 | 5845 | 5865 |
| E | 5733 | 5752 | 5771 | 5790 | 5809 | 5828 | 5847 | 5866 |
| F | 5705 | 5685 | 5665 | 5645 | 5885 | 5905 | 5925 | 5945 |
| R | 5658 | 5695 | 5732 | 5769 | 5806 | 5843 | 5880 | 5917 |

## The Set Contains

1. SKYRC HD FPV GOGGLE
2. Power Cable
3. AV Cable
4. SpiroNET Omni Antenna
5. Antenna
6. Battery Holder