

SoloGood SKYDROID

SoloGood FPV Receiver 5.8G OTG 150CH Video Downlink Receiver Instruction Manual

Brand: SoloGood | Model: SKYDROID

1. INTRODUCTION

Thank you for choosing the SoloGood FPV Receiver. This 5.8G OTG 150CH Video Downlink Receiver is designed to provide a seamless First-Person View experience by connecting directly to your Android phone or tablet. Featuring automatic signal search and dual antenna reception for enhanced signal strength, this receiver is ideal for use with analog signal cameras (5.8Ghz) on various RC models. This manual will guide you through the setup, operation, and maintenance of your FPV receiver.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x SoloGood FPV Receiver (SKYDROID 5.8G Dual Receiver)
- 2 x SMA Antennas
- 1 x USB Cable (Micro USB to USB-C/Micro USB/Standard USB)

Package Including

SMA Antenna

USB Cable



FPV Receiver

Image: The package includes the FPV receiver unit, two SMA antennas, and a versatile USB cable for various connections.

3. PRODUCT OVERVIEW

The SoloGood FPV Receiver is a compact and efficient device designed for real-time video transmission to compatible Android devices. It features dual antenna reception for improved signal stability and a wide frequency range to capture various FPV camera signals.

Key Features:

- Automatic search signal for simple operation.
- Double antenna reception for stronger signal.
- Supports dual display on smartphones and switchable VR glasses mode.
- Compatible only with Android phones or tablets that support OTG functionality.
- Exclusively for analog signal cameras (5.8Ghz); not compatible with digital signal cameras.
- Video Resolution: 640*480, 30fps.

Component Identification:



Frequency Range: 5645-5945MHz

Channel: 150CH

Antenna: RP-SMA Male, 2dBi



Image: Front view of the SKYDROID 5.8G Dual Receiver, highlighting its frequency range (5645-5945MHz) and 150 channels. It features two RP-SMA Male, 2dBi antennas.

Schematic diagram of components

Long pressing any button to start sweeping frequency, being able to be fine-tuned separately

Micro USB, connect the phone by the USB cable

AUDIO VIDEO 5V GND Extension interface



Image: A close-up of the receiver's side, showing the Micro USB port for phone connection and the AUDIO VIDEO 5V GND extension interface. A button for long-pressing to start sweeping frequency is also visible.



Image: The receiver measures 59mm x 40mm x 11mm. The antenna length is 109mm.



Image: The FPV receiver weighs approximately 42 grams (1.48 ounces).

4. SETUP INSTRUCTIONS

Follow these steps to set up your SoloGood FPV Receiver with an Android device:

1. **Attach Antennas:** Screw the two provided SMA antennas onto the receiver's connectors. Ensure they are securely fastened.
2. **Connect to Android Device:** Use the included USB cable to connect the FPV receiver to your Android phone or tablet. Your Android device must support OTG (On-The-Go) functionality.
3. **Install FPV App:** Download and install a compatible FPV viewing application from the Google Play Store. Popular options include 'USB Camera Pro' or similar UVC (USB Video Class) compatible apps.
4. **Power on FPV Camera:** Ensure your 5.8Ghz analog FPV camera is powered on and transmitting a signal.
5. **Search for Signal:** Once the receiver is connected and the app is open, long-press the button on the receiver to initiate an automatic search for the strongest FPV signal. The receiver will automatically lock onto

the best available channel.

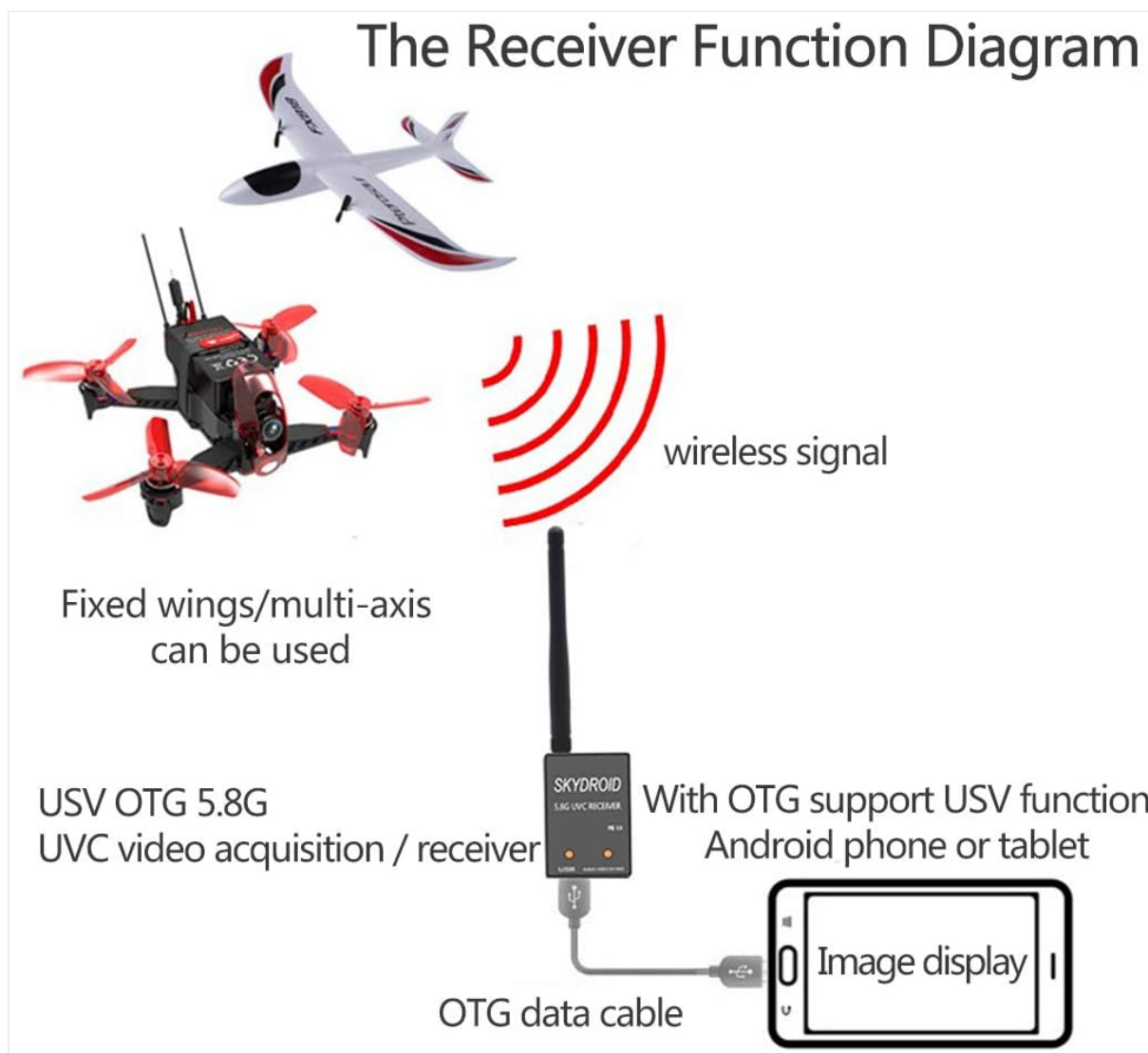


Image: The Receiver Function Diagram illustrates how the FPV camera on a fixed-wing or multi-axis drone transmits a wireless signal to the SKYDROID receiver, which then connects to an Android phone or tablet via an OTG data cable for real-time image display.

Video Guide: General FPV Setup

For a visual demonstration of FPV setup, including frequency pairing, you may refer to these general guides. While they may feature different control systems, the principles of connecting an FPV receiver and camera are often similar.

Video: This video demonstrates how to set up FPV on a Radiolink RC8X, which can provide general guidance on FPV camera and receiver integration. (Duration: 3:18)

Video: This video provides FPV setup instructions for the RC8X, including frequency pairing, which can be helpful for understanding the process. (Duration: 1:32)

5. OPERATING INSTRUCTIONS

Once the receiver is successfully connected and displaying video, you can utilize its features:

- **Automatic Channel Search:** The receiver automatically searches for and locks onto the strongest 5.8Ghz signal from your FPV camera. If the signal is lost or you wish to find a different channel, long-press the search button on the receiver.
- **Dual Display & VR Glasses Mode:** The receiver supports dual display functionality on your smartphone, allowing for a split-screen view. It also offers a switchable VR glasses mode for an immersive FPV

experience when used with compatible VR headsets.

- **Video Quality:** The video resolution provided by the receiver is 640x480 pixels at 30 frames per second, offering a clear and fluid real-time view.



Image: The FPV receiver supports a video resolution of 640x480 pixels at 30 frames per second.

Video Guide: FPV Function Demonstration

Observe the FPV function in action with this video, demonstrating the real-time video feed from an FPV camera to a compatible display.

Video: This video showcases the FPV function, providing a visual example of what can be achieved with an FPV setup. (Duration: 1:27)

6. MAINTENANCE

To ensure the longevity and optimal performance of your SoloGood FPV Receiver, please follow these maintenance guidelines:

- **Antenna Care:** Always ensure antennas are securely attached before powering on the receiver or any transmitting device. Operating a receiver or transmitter without an antenna can cause damage to the internal components.
- **Cleaning:** Use a soft, dry cloth to clean the receiver. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the receiver in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

- **Handle with Care:** The receiver is an electronic device; avoid dropping it or subjecting it to strong impacts.

7. TROUBLESHOOTING

If you encounter issues with your SoloGood FPV Receiver, refer to the following common problems and solutions:

- **No Video Signal:**
 - Ensure your FPV camera is powered on and transmitting a 5.8Ghz analog signal.
 - Verify that the receiver's antennas are properly connected.
 - Long-press the search button on the receiver to perform an automatic channel scan.
 - Check the FPV app settings on your Android device to ensure it is configured for video input.
- **App Not Working/Crashing:**
 - Some users have reported success with alternative UVC apps like 'USB Camera' or 'USB Camera Pro' if the default app causes issues.
 - Try enabling 'Airplane Mode' on your Android phone, as some apps may require this to function correctly without interference.
 - Ensure your Android device's OTG functionality is enabled in its settings.
- **Poor Video Quality/Interference:**
 - Ensure both receiver antennas are properly oriented for optimal reception.
 - Minimize obstructions between the FPV camera and the receiver.
 - Check for other 5.8Ghz devices in the vicinity that might cause interference.
 - Ensure the FPV camera is transmitting on a clear channel.
- **Receiver Gets Hot:**
 - It is normal for electronic devices to generate some heat during operation. However, if the receiver becomes excessively hot, discontinue use and contact support.

8. SPECIFICATIONS

Feature	Specification
Product Dimensions	0.43 x 15.75 x 4.33 inches
Item Weight	3.59 ounces
Item Model Number	SKYDROID
Brand	SoloGood
Connectivity Technology	USB
Controller Type	Android
Special Feature	Dual Display, VR Glasses Mode
Compatible Devices	Personal Computer, Smartphone, Tablet
Connector Type	USB
Audio Output Mode	Stereo

Feature	Specification
Surround Sound Channel Configuration	5.1
Video Encoding	NTSC
Color	Black
Manufacturer	SKYDROID
Date First Available	March 10, 2021

9. WARRANTY AND SUPPORT

For any questions regarding the use, troubleshooting, or warranty of your SoloGood FPV Receiver, please contact our customer support. We are committed to providing assistance and ensuring your satisfaction with our product.