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> [RunCam WiFiLink RX Digital HD Receiver User Manual](#)

RunCam Full Kit

RunCam WiFiLink RX Digital HD Receiver User Manual

Model: Full Kit
Brand: RunCam

1. INTRODUCTION

The RunCam WiFiLink RX Digital HD Receiver is designed to provide high-definition video reception for FPV (First Person View) applications. It features 1080P HDMI output, built-in 32GB storage, and supports OpenIPC and Ruby systems for versatile use with FPV fixed-wing drones, RC cars, and other RC hobbies. This manual provides essential information for the proper setup, operation, and maintenance of your device.

2. KEY FEATURES

- **High-Definition Video Output:** Supports 1080P@90fps and 720P@120fps with ultra-low latency (50ms-80ms) for clear and smooth visuals.
- **Long-Range Signal:** Equipped with quad antennas and STBC/LPDC technology for stable signal transmission up to 5+ km.
- **Dual System Support:** Compatible with both OpenIPC and Ruby systems, allowing for flexible customization and easy firmware flashing.
- **Versatile Connectivity:** Features HDMI output for display integration and OTG support for external network card expansion. Supports additional WiFi modules for enhanced signal.
- **Built-in Storage:** Includes 32GB eMMC storage for reliable recording and data retention.



Image: The RunCam WiFiLink RX Digital HD Receiver, showcasing its compact design and dual antennas.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- WiFiLink RX Receiver x 1
- Warranty Card x 1
- Quick Start Guide x 1
- XT60 to DC Power Cable x 1
- Mini HDMI to HDMI Cable x 1

Built-in Storage, Worry-Free Recording

Comes with 32GB eMMC storage,
Delivering stable performance
and reliable data retention.
Record with ease and fly with confidence.



Image: Contents of the RunCam WiFiLink RX package, showing the receiver unit, power cable, HDMI cable, and quick start guide.

4. SETUP GUIDE

4.1 Connecting Power

Connect the provided XT60 to DC power cable to the DC 9-30V input port on the receiver. Ensure the power source is

within the specified voltage range.

4.2 HDMI Output Connection

Use the Mini HDMI to HDMI cable to connect the receiver's HDMI output port to a compatible display device (e.g., monitor, FPV goggles with HDMI input).

4.3 Antenna Installation

Screw the two included antennas firmly onto the antenna connectors on the receiver. Ensure they are securely attached for optimal signal reception.



Immersive & Ultra-Clear

CPU: 44% temp: 55
9.9 Volt
1.20 Amp
1.33 mAh
0.0 km/h
0.0 m
0%
0.0 m
0.000000
0.000000
0.0 m

MANU *

Experience 1080P@90fps / 720P@120fps high-definition visuals.
With HDMI output and ultra-low latency (50ms-80ms),
Every flight feels real, delivering crisp and smooth imagery.

Image: Close-up view of the RunCam WiFiLink RX ports, including HDMI, OTG, Type-C, TF Card slot, and DC power input.

4.4 Optional Connections

- **OTG Port:** For external network card expansion.
- **Type-C Port:** For data transfer or firmware updates.
- **TF Card Slot:** Insert a TF card for additional storage beyond the built-in 32GB eMMC.

5. OPERATING INSTRUCTIONS

5.1 Powering On

Once all necessary connections are made, apply power to the receiver. The device will automatically power on and begin searching for a signal.

5.2 Receiving Video Signal

Ensure your FPV transmitter is powered on and operating on a compatible frequency. The receiver will automatically lock onto the signal, displaying the video feed on your connected HDMI display.



Image: An FPV drone's perspective displayed on a monitor, demonstrating the immersive and ultra-clear video output of the receiver.

5.3 On-Screen Display (OSD)

The receiver supports both MSP OSD and Ruby OSD, providing real-time flight data directly on your display. This includes information such as CPU usage, temperature, signal strength, and battery voltage.

Detailed OSD, Total Control

Supports MSP OSD and Ruby OSD,
Displaying real-time flight data with precision.
All essential information at a glance for superior control.

MSP OSD



Ruby OSD



Image: A split view showing examples of MSP OSD and Ruby OSD interfaces, providing detailed flight data overlays.

5.4 Recording

The built-in 32GB eMMC storage allows for direct recording of your FPV footage. Refer to the Quick Start Guide for specific instructions on initiating and managing recordings.

Package

- ✦ WiFiLink RX ×1
- ✦ Warranty Card ×1
- ✦ Quick Start Guide ×1
- ✦ XT60 to DC Power Cable ×1
- ✦ Mini HDMI to HDMI Cable ×1



Image: A visual representation of the eMMC storage component, highlighting the built-in recording capability of the receiver.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the receiver. Avoid using liquid cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Firmware Updates:** Periodically check the official RunCam website for available firmware updates to ensure optimal performance and access to new features.

7. TROUBLESHOOTING

7.1 No Video Signal

- Ensure the receiver is properly powered on.
- Verify that the HDMI cable is securely connected to both the receiver and the display.

- Check that your FPV transmitter is powered on and transmitting on the correct frequency.
- Confirm that antennas are securely attached to the receiver.

7.2 Poor Signal Quality

- Ensure there are no obstructions between the transmitter and receiver.
- Check for potential interference from other electronic devices.
- Verify that antennas are correctly oriented for optimal reception.
- Consider using an additional WiFi module for signal boost if experiencing consistent issues over long distances.



Image: The RunCam WiFiLink RX receiver positioned in a vast outdoor setting, illustrating its capability for long-range and stable signal transmission.

8. SPECIFICATIONS

Feature	Detail
Video Resolution	1080P@90fps, 720P@120fps
Latency	50ms-80ms
Signal Range	Up to 5+ km
Antennas	Quad antennas
Supported Systems	OpenIPC, Ruby
Output Interface	HDMI
Additional Ports	OTG, Type-C, TF Card Slot
Internal Storage	32GB eMMC
Power Input	DC 9-30V
Dimensions	10 x 5 x 1.5 cm
Weight	50 g
Manufacturer	RunCam
Country of Origin	China

9. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. Please refer to the included Warranty Card for specific terms and conditions regarding coverage and duration.

For technical support, firmware updates, or additional product information, please visit the official RunCam website or contact their customer service. You can also refer to the [RunCam Store on Amazon](#) for more resources.