GoolRC FS-G7P

GoolRC Flysky FS-G7P 7CH RC Transmitter with FS-R7P Receiver Instruction Manual

Model: FS-G7P

1. Introduction

This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your GoolRC Flysky FS-G7P 7-channel RC Transmitter and FS-R7P Receiver. This 2.4GHz remote control system is designed for various RC models, including cars and boats, offering reliable and precise control.

Image 1.1: The GoolRC Flysky FS-G7P 7CH RC Transmitter and FS-R7P Receiver. This image displays the transmitter unit, the compact FS-R7P receiver, and a battery voltage detection (BVD) harness.

2. Key Features

The GoolRC Flysky FS-G7P system incorporates several features designed to enhance your RC experience:

- **Mixed Control Capability:** The transmitter supports 20 model memory slots and allows for customizable channel assignments to switches and knobs. This enables mixed control for various RC models, including climbing vehicles, crawlers, cars, boats, and robots.
- **User-Friendly Interface:** A widescreen user interface provides direct display of operational information, simplifying tasks such as code matching and BVD voltage calibration. The integrated single antenna design contributes to durability.
- **4WS Crawler Special Mixer:** Includes four dedicated climbing vehicle modes. This mixing function is specifically designed for dual-engine models like tracked vehicles and dual-motor boats, offering adjustable mixing ratios.
- **Extended Range and Stability:** Provides a control range exceeding 300 meters with stable signal transmission, supporting simultaneous operation of multiple units in a single area.
- **Broad Receiver Compatibility:** Compatible with all FUCHS ANT protocol receivers. The system's software includes direction mixing and five programmable mixing groups for versatile control across different RC models.
- **Type-C Data Port:** Equipped with a Type-C data port for firmware upgrades, external power supply, and direct connection to RC simulators and racing games (e.g., VRC, F1 2018/2019, SANS, Spinning Tire, Eurocar) via USB.

Image 2.1: Overview of the FS-G7P transmitter's functions, including model data storage, beginner mode, timer, rate and curve adjustments, servo frequency, receiver firmware updates, channel expansion, SVC function, factory reset, and stick calibration.

Image 2.2: Illustration of the FS-G7P's user interface design, highlighting its widescreen display and ease of navigation for various settings.

Image 2.3: Depiction of the Type-C data port on the FS-G7P, indicating its use for firmware upgrades, external power, and simulator connections.

3. Product Overview

3.1. FS-G7P Transmitter Components

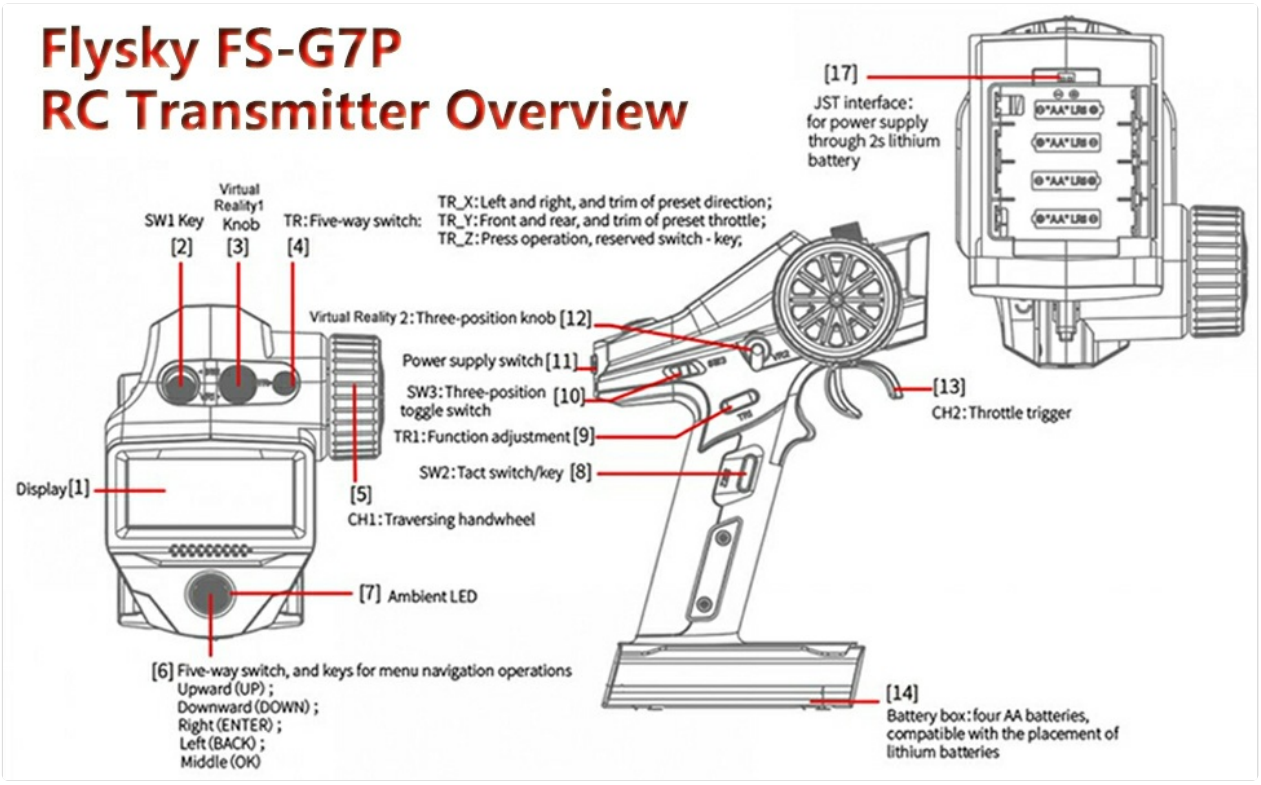


Image 3.1: Detailed diagram of the FS-G7P RC Transmitter, labeling its various controls and ports.

1. **Display:** LCD screen for displaying settings and telemetry data.
2. **SW1 Key:** Self-locking switch.
3. **VR1 Knob:** Virtual Reality 1 knob.
4. **Five-way switch:** Used for menu navigation (Up, Down, Left, Right, Enter/OK).
5. **CH1:** Traversing handwheel.
6. **Ambient LED:** Indicator light.
7. **SW2:** Tact switch/key.
8. **TR1:** Function adjustment.
9. **SW3:** Three-position toggle switch.
10. **Power supply switch.**
11. **Virtual Reality 2:** Three-position knob.

12. **CH2:** Throttle trigger.
13. **Battery box:** Accommodates four AA batteries, compatible with 2S lithium batteries.
14. **Type C USB interface:** For firmware upgrades, USB emulator, and system power supply.
15. **Fixed port for the holder of a mobile phone.**
16. **JST interface:** For power supply through 2S lithium battery.

3.2. FS-R7P Receiver Components

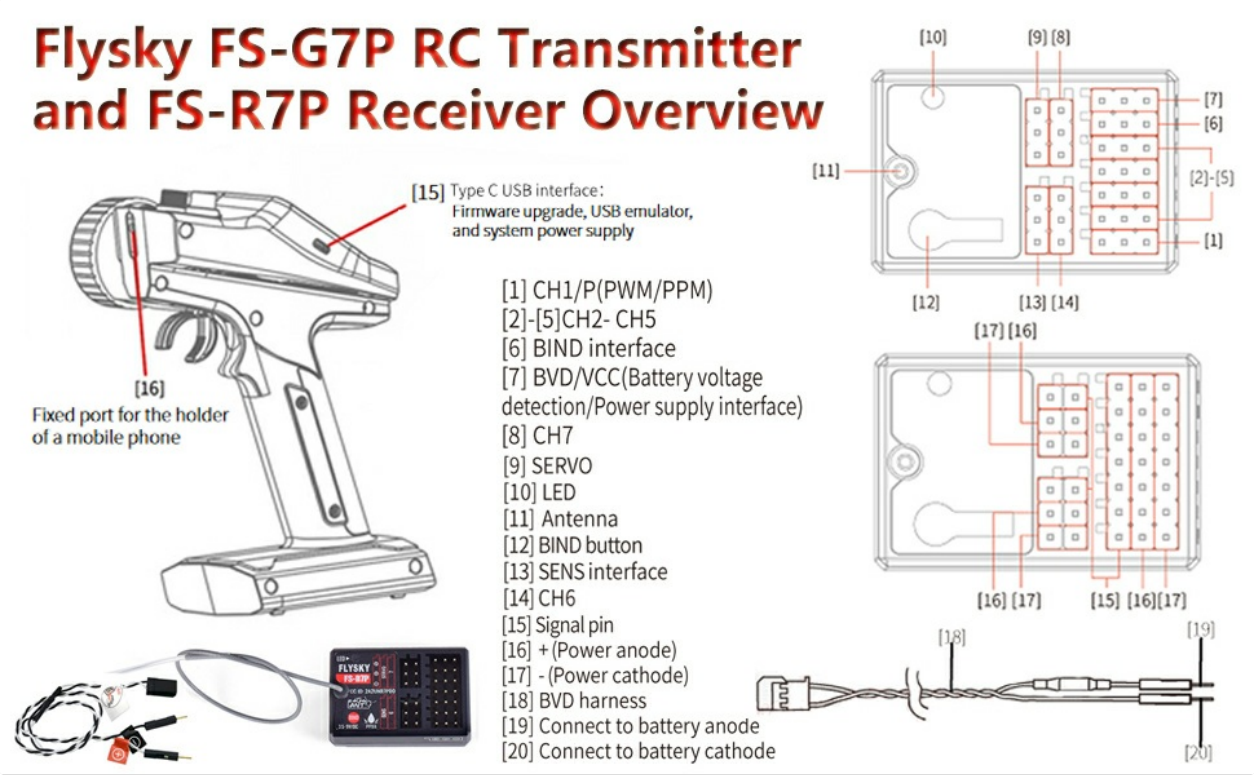


Image 3.2: Detailed diagram of the FS-R7P Receiver, showing its ports and connections.

1. **CH1/P(PWM/PPM):** Channel 1 output (PWM/PPM).
2. **CH2-CH5:** Channels 2 through 5 outputs.
6. **BIND interface:** Port for binding the receiver to the transmitter.
7. **BVD/VCC:** Battery voltage detection/Power supply interface.
8. **CH7:** Channel 7 output.
9. **SERVO:** Servo connection port.
10. **LED:** Status indicator light.
11. **Antenna:** Receiver antenna.
12. **BIND button:** Button for initiating the binding process.
13. **SENS interface:** Sensor interface.
14. **CH6:** Channel 6 output.
15. **Signal pin.**
16. **+ (Power anode).**
17. **- (Power cathode).**
18. **BVD harness:** For battery voltage detection.
19. **Connect to battery anode.**
20. **Connect to battery cathode.**

Note: The BVD voltage detection range is 0-70V.

4. Setup

4.1. Battery Installation (Transmitter)

The FS-G7P transmitter requires four AA batteries. Alternatively, a 2S lithium battery can be used via the JST interface for power supply. Ensure correct polarity when inserting batteries.

Image 4.1: View of the FS-G7P transmitter's battery compartment, illustrating support for 2S lithium batteries (not included).

4.2. Binding the Transmitter and Receiver

To establish communication between the FS-G7P transmitter and FS-R7P receiver, follow these binding steps:

1. Ensure both the transmitter and receiver are powered off.
2. Connect the binding plug (not included, typically a jumper) to the BIND interface on the FS-R7P receiver.
3. Power on the receiver. The LED on the receiver should flash, indicating it is in binding mode.
4. While holding down the BIND button on the FS-G7P transmitter (refer to Image 3.1, item 12), power on the transmitter.
5. The LED on the receiver should become solid, indicating successful binding.
6. Power off both the transmitter and receiver. Remove the binding plug from the receiver.
7. Power on the transmitter first, then the receiver. The receiver LED should be solid, confirming a successful connection.

4.3. Initial Configuration

After binding, you may need to configure basic settings:

- **Model Selection:** Use the transmitter's display and five-way switch to select or create a new model profile. The FS-G7P supports 20 model memory slots.
- **Channel Assignment:** Assign functions to the various switches and knobs (SW1, VR1, SW3, TR1) as desired for your specific RC model.
- **Calibration:** Perform throttle and steering calibration if necessary to ensure accurate control response.

5. Operating Instructions

5.1. Basic Controls

The primary controls for your RC model are the steering wheel (CH1) and the throttle trigger (CH2).

- **Steering (CH1):** Rotate the handwheel left or right to control the steering of your model.
- **Throttle (CH2):** Pull the trigger towards you for forward movement and push it away for reverse or braking.

5.2. Advanced Functions

The FS-G7P offers advanced mixing and programming options:

- **Mixed Control:** Utilize the programmable mixing groups to combine control inputs for complex models. Refer to the transmitter's menu for setting up direction mixing and the five programming mixing groups.
- **4WS Crawler Modes:** Access the four dedicated crawler modes for enhanced control of 4-wheel steering vehicles. Adjust mixing amounts as needed for optimal performance.
- **Trim Adjustments:** Use the TR1 function adjustment to fine-tune steering and throttle neutral positions.

Image 5.1: Diagram illustrating the reasonable layout of controls on the FS-G7P transmitter, including knobs, switches, and the five-way switch for menu navigation.

6. Maintenance

- **Cleaning:** Regularly clean the transmitter and receiver with a soft, dry cloth. Avoid using solvents or harsh chemicals.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Firmware Updates:** Periodically check the GoolRC or Flysky official website for firmware updates. Use the Type-C data port to update the transmitter's firmware as instructed by the manufacturer.
- **Battery Care:** Ensure batteries are charged appropriately and replaced when their performance degrades.

Image 6.1: Screenshot of the FlySky Assistant 3.0 software interface, used for firmware upgrades, model data storage, and copying.

7. Troubleshooting

If you encounter issues with your FS-G7P system, consider the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power to transmitter/receiver	Dead or incorrectly installed batteries.	Check battery polarity, replace with fresh batteries, or ensure 2S LiPo is connected correctly.
No control response / Glitching	Unbound units, interference, low battery voltage, faulty servo/ESC.	Re-bind the transmitter and receiver. Ensure sufficient battery power. Check all connections. Test components individually if possible.
Throttle/Steering twitchy or unstable	Interference, incorrect calibration, faulty servo.	Ensure no strong interference sources nearby. Re-calibrate throttle and steering. Check servo connections and function.
Servos burning out	Over-voltage, incorrect wiring, faulty servo.	Verify power supply voltage is within receiver/servo limits. Double-check all wiring. Replace suspected faulty servos.
Unable to connect to simulator	Incorrect USB cable, driver issues, software settings.	Ensure you are using a compatible Type-C USB cable. Install necessary drivers. Check simulator software settings for controller input.

8. Specifications

Feature	Specification
Brand	GoolRC
Model	FS-G7P (Transmitter), FS-R7P (Receiver)
Channels	7 Channels
Frequency	2.4GHz
Control Distance	Over 300 meters (984 feet)
Transmitter Weight	Approximately 305g (0.67 lbs)
Receiver Weight	Approximately 8g (0.02 lbs)
BVD Voltage Detection Range	0-70V
Power Consumption	0.6W (provides over 10 hours of operation on full charge)
Transmitter Power Supply	4x AA batteries or 2S Lithium battery
Receiver Compatibility	All FUCHS ANT protocol receivers (e.g., FS-R4P, FS-R4B, HW-709, HW-711)
Item Model Number	UYA8730971786978GT
Manufacturer Recommended Age	14 years and up
Package Dimensions	8.39 x 6.69 x 4.84 inches
Item Weight (Package)	1.1 pounds

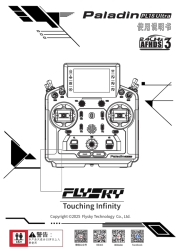
Image 8.1: Dimensional drawing of the FS-G7P transmitter and FS-R7P receiver, showing their physical sizes and weights.

Image 8.2: Diagram illustrating the compatibility of the FS-R7P receiver with various other ANT protocol receivers, including FS-R4P, FS-R4B, HW-709, and HW-711.

9. Warranty and Support

For specific warranty information, please refer to the documentation provided with your purchase or contact the seller directly. GoolRC provides ongoing support through firmware updates available via the Type-C data port, ensuring your system remains up-to-date with the latest features and improvements.

Related Documents - FS-G7P

	FS-G7P User Manual - Flysky Automatic Frequency Hopping Digital System Comprehensive user manual for the Flysky FS-G7P transmitter and FS-R7P receiver, detailing setup, operation, functions, and specifications of the 2.4GHz ANT protocol radio control system.
	Flysky FS-G7P+ Quick Start Guide Quick Start Guide for the Flysky FS-G7P+ RC transmitter system. Covers setup, operations, binding, calibration, failsafe, firmware updates, and specifications.
	Paladin PL18 Ultra | Flysky 18 Flysky Paladin PL18 Ultra 18 2.4GHz AFHDS 3 Paladin PL18 Ultra Paladin PL18 Ultra
	Flysky FS-ST8B & FS-Br01 Digital Proportional Radio Control System Manual Comprehensive user manual for the Flysky FS-ST8B transmitter and FS-Br01 receiver, detailing setup, functions, specifications, and operation for bait boat control.
	Flysky FS-G7P Radio Control System Quick Start Guide A quick start guide for the Flysky FS-G7P radio control system, covering installation, operation, binding, calibration, failsafe settings, and specifications for car and boat models.
	FlySky FS-i6S Digital Proportional Radio Control System Instruction Manual This manual provides detailed instructions for the FlySky FS-i6S digital proportional radio control system, covering setup, operation, function settings, specifications, and safety precautions for optimal use.