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GoolRC Paladin EV

GoolRC Flysky Paladin EV 2.4GHz 18CH RC Transmitter User Manual

Model: Paladin EV

1. Product Overview

The GoolRC Flysky Paladin EV is an advanced 2.4GHz 18-channel RC transmitter designed for precise control of various remote-controlled models. It features 5D Hall sensor gimbals, a 3.5-inch TFT touching screen, and utilizes the AFHDS 3 protocol for reliable communication. This transmitter is suitable for a wide range of models, including engineering vehicles (excavators, bulldozers, loaders, dump trucks), truck models, military vehicles (tanks, armored vehicles), special vehicles (fire trucks, tugboats), and robot models.

Key Features:

- **Precise Control:** Equipped with metal Hall multi-dimensional joysticks for smooth and delicate control.
- **Versatile Application:** Compatible with a broad spectrum of RC models.
- **Integrated Power:** Features a built-in 4300mAh battery supporting both USB and wireless charging.
- **Intuitive Interface:** A 3.5-inch full-color touching screen with a graphical user interface (UI) and support for Chinese and English languages.
- **Feedback System:** Includes real voice speech and vibration prompts via a built-in speaker.

Figure 1: Front view of the GoolRC Flysky Paladin EV RC Transmitter, showing the screen, joysticks, and control buttons.

Figure 2: Angled view of the transmitter highlighting key features such as metal Hall joysticks, dual metal toggles, 18CH remote control mode, mechanical model exclusive structure, track mixed control, and full-color touch screen.

2. Setup and Initial Use

2.1 Package Contents

Before proceeding, verify that all items are present in the package:

- 1x GoolRC Flysky Paladin EV Transmitter with 301 High Frequency Module
- 1x High Frequency Fixing Plate
- 1x Thin Hand Glue
- 1x Receiver
- 1x USB Cable
- Some Stickers
- 1x Quick Operation Guide

Figure 3: Contents of the GoolRC Flysky Paladin EV package, including the transmitter, receiver, USB cable, and quick start guide.

2.2 Charging the Transmitter

The Paladin EV transmitter has a built-in 1S (3.7V) 4300mAh battery. It supports two charging methods:

- **USB Charging:** Connect the included USB cable to the transmitter's charging interface and a 5V/2A USB power adapter. Charging time is approximately 6 hours.
- **Wireless Charging:** Place the transmitter on a compatible wireless charging pad. Charging time is approximately 7 hours with a 5V/2A wireless charger.

A low voltage warning will activate when the battery drops below 3.65V. Ensure the transmitter is fully charged before extended use.

2.3 Binding the Receiver

To establish communication between the transmitter and your model, the receiver must be bound to the transmitter. Refer to the included Quick Operation Guide for specific binding instructions for your receiver model. Generally, this involves:

1. Powering on the receiver in binding mode (often by holding a bind button while powering on).

2. Activating the binding function on the transmitter via its menu.
3. Confirming successful binding, usually indicated by a solid LED on the receiver.

3. Operating Instructions

3.1 Powering On/Off

To power on the transmitter, press and hold the power button located at the bottom center until the screen illuminates. To power off, press and hold the power button again until the shutdown sequence completes.

3.2 Navigating the Touch Screen Interface

The Paladin EV features a 3.5-inch HVGA TFT touch screen (320*480 resolution) with a graphical user interface (UI). The new Flysky OS provides comprehensive functions accessible through touch input. The interface supports both Chinese and English languages, which can be selected in the system settings.

Figure 4: The transmitter's touch screen displaying control settings and channel outputs.

3.3 Control Functions

The transmitter offers 18 channels and a variety of physical controls for versatile operation:

- **Hall Sensor Gimbals:** The metal Hall multi-dimensional joysticks provide precise and responsive control.
- **Multi-type Switches:** Includes 2-position and 3-position switches, some with self-return functionality, and custom switch combinations.
- **Track Mixed Control:** This function allows for synchronized and independent speed control of different movements, particularly useful for models like tanks, track excavators, and track loaders.
- **Exclusive Mechanical Model Structure:** Designed with specific functions for mechanical models, such

as "rotating platform," "hydraulic pump," "large and small arm," "Digger," and "sound group." Nine auxiliary functions can be set up for different models.

Figure 5: Detailed diagram illustrating the various control features and their functions on the Paladin EV transmitter.

3.4 Voice and Vibration Prompts

The built-in speaker provides real voice prompts, and the transmitter also offers vibration feedback to alert the user to various statuses or warnings.

4. Maintenance

4.1 Battery Care

To maximize battery life and ensure safe operation:

- Avoid fully discharging the battery. Recharge when the low voltage warning is triggered.
- Do not expose the transmitter to extreme temperatures.
- If storing for an extended period, charge the battery to approximately 50-60% capacity.

4.2 Cleaning and Storage

Keep the transmitter clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or solvents. Store the transmitter in a cool, dry place away from direct sunlight and moisture.

5. Troubleshooting

This section addresses common issues you might encounter with your Paladin EV transmitter.

5.1 No Power

- Ensure the battery is sufficiently charged. Connect the transmitter to a power source using the USB cable or wireless charger.
- Verify that the power button is pressed and held for the required duration to turn on the device.

5.2 No Connection to Receiver

- Confirm that the receiver is powered on and correctly installed in your model.
- Re-attempt the binding process as described in Section 2.3.
- Ensure the transmitter and receiver are within operational range and free from significant interference.

5.3 Screen Not Responding

- Gently clean the screen with a soft, lint-free cloth to remove any dirt or smudges.
- Restart the transmitter by powering it off and then on again.
- If the issue persists, contact customer support.

6. Technical Specifications

Feature	Specification
Channels	18
Adaptable Receivers	All AFHDS 3 Receivers
Model Type	Engineering Vehicles, Simulation Ship, etc.
Radio Frequency	2.4GHz
Radio Frequency Power	<20dBm
2.4GHz Protocol	AFHDS 3
Channel Resolution	4096
Battery	1S (3.7V) 4300mAh (built-in)
Charging Interface	USB/Wireless Charging
Charging Time	6h@5V*2A (USB) / 7h@5V*2A (Wireless)
Life Time	>5.5h (Standard Accessories)
Low Voltage Warning	<3.65V

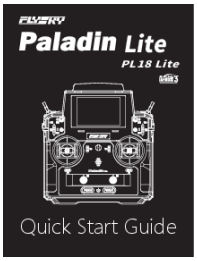
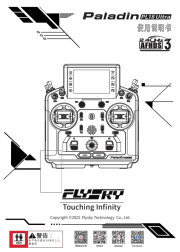
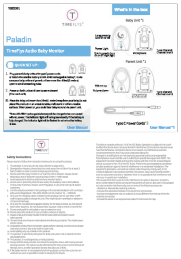
Feature	Specification
Antenna Type	Dual Antenna
Display	HVGA 3.5 TFT, 320*480
Language	Chinese and English
Simulator	USB Simulator
Data Interface	USB, Non-standard Interface(USART), PHJACK(PPM)
Temperature Range	-10℃—+60℃
Humidity Range	20%-95%
Online Update	Yes
Color	Black
Dimensions (L*W*H)	120mm*195mm*213 mm
Weight	1012g

Figure 6: Dimensions of the GoolRC Flysky Paladin EV transmitter.

7. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact details provided in your Quick Operation Guide or visit the official GoolRC website. Keep your purchase receipt as proof of purchase for any warranty claims.

Related Documents - Paladin EV

	Flysky Paladin Lite PL18 Lite Quick Start Guide Quick start guide for the Flysky Paladin Lite PL18 Lite remote control transmitter, covering setup, operation, and specifications. Learn how to power on/off, navigate the interface, adjust settings, and more.
	Flysky Paladin PL18 Ultra Quick Start Guide Get started quickly with the Flysky Paladin PL18 Ultra, a high-performance RC transmitter. This guide covers essential setup, charging, interface introduction, and basic operations.
	Paladin PL18 Ultra | Flysky 18 Flysky Paladin PL18 Ultra 18 2.4GHz AFHDS 3 Paladin PL18 Ultra Paladin PL18 Ultra
	Paladin Intelligent Voice Dialogue Remote Control Robot - Instruction Manual Comprehensive instruction manual for the Paladin Intelligent Voice Dialogue Remote Control Robot, detailing setup, functions, operations, and troubleshooting. Features 2.4GHz RC system and gesture sensing.
	TimeFlys Paladin Audio Baby Monitor: Setup and Safety Guide Comprehensive guide for the TimeFlys Paladin Audio Baby Monitor, covering setup instructions, safety precautions, and FCC compliance information.

FIXED LENS INSTALLATION GUIDE

Panamorph

Phoenix | Paladin | Paladin DCR

Panamorph Fixed Lens Installation Guide, V1.3 Page 1

[Panamorph Fixed Lens Installation Guide: Phoenix, Paladin, and Paladin DCR Setup]

Detailed installation and setup guide for Panamorph's Phoenix, Paladin, and Paladin DCR anamorphic projector lenses. Learn about mounting, adjustments, electronic convergence correction, and warranty information for home theater systems.