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## APEX G-129

# APEX G-129 FPV Radio Transmitter User Manual

Model: G-129

## 1. PRODUCT OVERVIEW

The APEX G-129 is a versatile FPV radio transmitter designed for controlling drones and interacting with FPV simulators. It supports both the ELRS 2.4G Firmware version 3.0-3.3 and APEX's autonomous TX protocol, allowing for flexible adaptation to various aircraft and simulation platforms. Featuring a built-in 500mW HF head and a 2000mAh rechargeable battery, the G-129 offers extended operational time and broad compatibility for both beginners and experienced users.



Figure 1.1: APEX G-129 FPV Radio Transmitter.

## 2. PACKAGE CONTENTS

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

- 1\* FPV drone remote control
- 1\* Charging cable
- 1\* Adapter cable
- 1\* Instruction manual
- 1\* Storage bag
- 1\* Sling

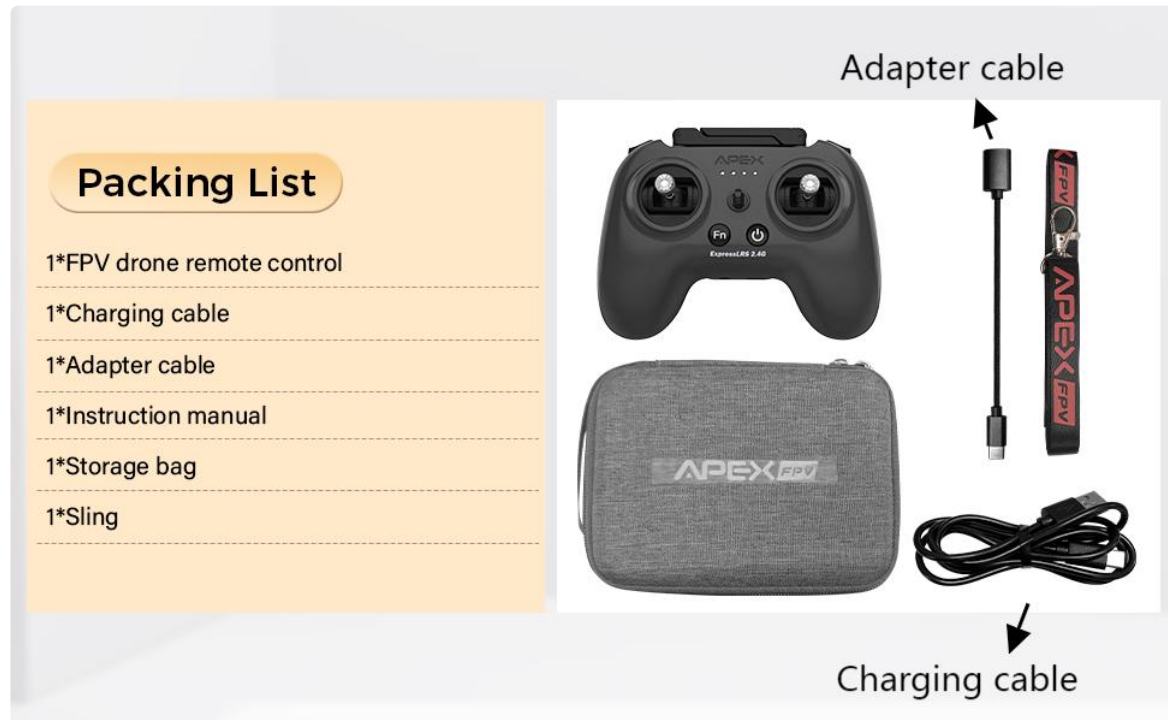


Figure 2.1: Visual representation of the APEX G-129 package contents.

## 3. KEY FEATURES

- **Dual Protocol Support:** Compatible with ELRS 2.4G Firmware v3.0-3.3 and APEX's autonomous TX protocol.
- **Simulator Compatibility:** Supports PC and Android mobile FPV simulators (e.g., TYPEFPV, Uncrashed, DJI Virtual Flight) via USB or OTG cable, no dongle required.
- **Long Endurance Battery:** Equipped with a 2000mAh rechargeable battery providing over ten hours of continuous use, indicated by 4 battery lights.
- **Built-in HF Head:** Features a 2-in-1 HF head with 0.5W power, offering up to 10km range.
- **Removable Mechanical Joysticks:** Joysticks are removable and can be stored on top of the remote for easy transport.
- **Ergonomic Design:** Newly designed for comfort and extended use.

**2.4GELRS**

## **Built-in 2-in-1 HF head**

Compatible Receiver ELRS 2.4G  
Firmware version 3.0 or higher traverser



Switchable ELRS 2.4G HF Head  
0.5W power, up to 10km range

Figure 3.1: The G-129 controller's versatile capabilities including dual-stick comfort, low consumption, ergonomic design, and long standby time.

## Product Size Comparison



Figure 3.2: Detailed view of the G-129's multifunctional components, including antennas, battery indicator, rockers, switches, and charging port.

## 4. SETUP

### 4.1 Protocol Switching

The G-129 supports two protocols: ELRS 2.4G (Firmware v3.0-3.3) and APEX's autonomous TX protocol. To switch between protocols:

1. Ensure the device is powered off.
2. Press and hold the **FN key** and the **power button** simultaneously.
3. Listen for beeps: a quick four beeps indicate the APEX TX protocol, and a slow four beeps indicate the built-in high-frequency head ELRS 2.4G protocol.

**Note:** After connecting to an ELRS protocol-based aircraft, it is necessary to configure the settings via the corresponding ground station; otherwise, the remote control may fail to function.

### 4.2 Connecting to FPV Simulators

The G-129 supports both PC and Android mobile FPV simulators without requiring a dongle.

- **For PC:** Connect the G-129 to your PC using a USB-C cable. The controller will be recognized as a joystick for simulators like TYPEFPV, Uncrashed, or DJI Virtual Flight.
- **For Android:** Connect the G-129 to your Android phone using a USB or OTG cable. You can then play FPV simulators available on Android.



Figure 4.1: Connecting the G-129 to a computer for FPV simulator use.



Figure 4.2: Connecting the G-129 to an Android phone for FPV simulator use.

### 4.3 Binding to an ELRS Drone

To bind the G-129 with an ELRS drone, follow the drone manufacturer's specific re-pairing instructions. The G-129 supports ELRS 2.4G Firmware version 3.0-3.3.

Video 4.1: Demonstration of how to pair the G-129 with a compatible ELRS drone.

Video 4.2: Instructions for rebinding the VR70 aircraft with the controller.

## 5. OPERATING INSTRUCTIONS

The APEX G-129 provides intuitive controls for FPV flight. Familiarize yourself with the layout and functions of the various buttons and joysticks.

- **Power On/Off:** Use the central power button to turn the controller on or off.
- **Battery Indicator:** Four LED lights indicate the current remaining battery level.
- **Joysticks:** Control drone movement (throttle, pitch, roll, yaw). The mechanical joysticks are removable for transport.

- **Switches:** Utilize the various switches (Speed Switch, Mode Switch, Lamp Switching Key, Code Reset) for specific drone functions as configured.

Video 5.1: A guide on using the APEX G-129 FPV Drone Remote Control for general operation.

Video 5.2: A guide on using the G-129 FPV Drone Remote Control with DJI Simulator.

## 6. FIRMWARE UPGRADE

Firmware upgrades are available through the ApexFlight ground station application. This process is not recommended for beginners.

1. Download the **ApexFlight** app from the Google Play Store.
2. Connect your phone to the remote controller via USB or OTG cable.
3. Navigate to the firmware upgrade section within the app.
4. Follow the on-screen instructions to upgrade the firmware.

**Important:** During the firmware upgrade, the phone must remain connected to the remote controller and should be kept charged to prevent the remote from malfunctioning if the phone shuts down.



Figure 6.1: ApexFlight app interface for firmware updates.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	G-129
Product Dimensions	5 x 3 x 6.7 inches
Item Weight	13.1 ounces
Battery	1 Nonstandard Battery (included), 2000mAh
Special Feature	Rechargeable
Color	Black
Max Supported Devices	1
Compatible Devices	Drone

## Product Parameters

Battery Capacity:	1600mAh
Charging Interface:	Type C
Remote control distance:	600-700m
Throttle rocker auto center:	No
Product size:	5.27*3.81*2.67in
Weight:	0.35lb



Figure 7.1: Detailed product parameters and dimensions of the G-129 controller.

## 8. TROUBLESHOOTING



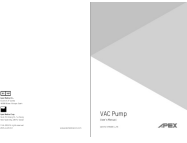



- **Binding Issues:** If the controller fails to bind with your drone, ensure the correct protocol is selected (ELRS or APEX TX). For ELRS, verify ground station settings. Consult your drone manufacturer's instructions for specific re-pairing methods.
- **Simulator Not Responding:** Ensure the USB or OTG cable is securely connected. Try a different cable if issues persist. Verify that the simulator software recognizes the controller input.
- **Firmware Upgrade Failure:** Ensure your phone remains connected and charged throughout the upgrade process. Interruption can cause malfunction.
- **Battery Draining Quickly:** Check the 4 battery indicator lights. If battery life is significantly shorter than expected, ensure the controller is fully charged before use.

## 9. SUPPORT & WARRANTY

If you encounter any issues with your APEX G-129 FPV Radio Transmitter, please contact our customer support team promptly. We have specialized technicians available to assist you with troubleshooting and resolutions.

For warranty information, please refer to the documentation provided with your purchase or contact customer support.



 <p>APEX-V2 Instruction Manual</p>	<p><a href="#">APEX-V2 Massage Chair Instruction Manual - Setup, Operation, and Maintenance Guide</a></p> <p>Comprehensive instruction manual for the APEX-V2 massage chair, covering safety precautions, installation, operation, settings, specifications, troubleshooting, cleaning, and maintenance. Learn how to set up and use your APEX-V2 massage chair effectively.</p>
 <p>XT Auto CPAP System Instruction Manual</p>	<p><a href="#">APEX XT Auto CPAP System Instruction Manual</a></p> <p>Comprehensive instruction manual for the APEX XT Auto CPAP System (Model 9S-005720), detailing setup, operation, maintenance, troubleshooting, and technical specifications for treating Obstructive Sleep Apnea (OSA).</p>
 <p>VAC Pump</p>	<p><a href="#">APEX VAC Pump User's Manual: Instructions and Safety Guide</a></p> <p>Comprehensive user's manual for the APEX VAC Pump, detailing operation, safety, technical specifications, and troubleshooting for VacPro, VacMaxi, and VacPlus models from Apex Medical Corp.</p>
 <p>DESTINY SECURITY SYSTEM OWNER'S MANUAL</p>	<p><a href="#">DESTINY Security System Owner's Manual</a></p> <p>This owner's manual for the Apex DESTINY Security System provides comprehensive guidance on installation, operation, arming modes (AWAY, HOME, NIGHT), remote access, bypass functions, and optional home automation features.</p>
 <p>Massage chair User operation manual</p>	<p><a href="#">Apex AP-Pomp Massage Chair User Operation Manual</a></p> <p>Comprehensive user operation manual for the Apex AP-Pomp massage chair, covering safety precautions, maintenance, installation, controller functions, troubleshooting, and specifications.</p>
 <p>User Manual</p>	<p><a href="#">Apex MegaUSB Megaphone User Manual</a></p> <p>User manual for the Apex MegaUSB, a portable megaphone with an integrated walkie-talkie, featuring clear sound, multiple power options, and essential operating instructions.</p>