

## APEX VR70

# APEX VR70 FPV Drone Kit User Manual

Model: VR70 | Brand: APEX

## INTRODUCTION

Welcome to the world of FPV flying with your new APEX VR70 FPV Drone Kit. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your drone to ensure a safe and enjoyable experience. Please read this manual thoroughly before your first flight.

The APEX VR70 is designed for both beginners and those looking to advance their FPV skills, offering stable flight modes and immersive first-person viewing.

## PACKAGE CONTENTS

Your APEX VR70 FPV Drone Kit includes the following components:

- 1 x APEX VR70 FPV Drone
- 1 x FPV Goggles
- 1 x Remote Controller
- 3 x Lithium Ion Batteries (400 mAh each)
- 1 x USB Charging Cable
- Spare Propellers
- Small Screwdriver
- Propeller Removal Tool



Image: All components of the APEX VR70 FPV Drone Kit, including the drone, FPV goggles, remote controller, batteries, and tools.

## SETUP

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Follow these steps to prepare your APEX VR70 for its first flight:

1. **Charge Batteries:** Connect the provided USB charging cable to the drone batteries and a compatible 5V/2A USB power adapter (not included). The charging time is approximately 40-50 minutes per battery. Ensure all 3 batteries are fully charged before use.
2. **Install Batteries:** Carefully insert the charged batteries into the drone and remote controller as per the diagrams. Ensure correct polarity.
3. **Attach Goggle Antenna:** Securely screw the antenna onto the FPV goggles.
4. **Power On:** Turn on the remote controller first, then the drone, and finally the FPV goggles. Allow them to pair automatically.
5. **Controller Setup:** The remote controller features a left throttle rocker without spring-back, which is ideal for manual flight modes.
6. **Simulator Practice:** For beginners, it is highly recommended to practice with a flight simulator. The transmitter is compatible with Uncrashed, TRYPFPV, and Phoenix RC simulators. A separate S.BUS protocol dongle is required for

simulator use.



Image: A user practicing FPV drone flight using the APEX VR70 controller connected to a laptop running a flight simulator.

## OPERATING INSTRUCTIONS

The APEX VR70 offers multiple flight modes to suit different skill levels:

- **Beginner Mode (Altitude Mode):** Ideal for new pilots. The drone will maintain a stable altitude automatically, allowing you to focus on directional control.
- **Manual Mode:** For experienced pilots, this mode provides full manual control, enabling advanced maneuvers and freestyle flying.

### Controller Functions:

Control	Function
Power On/Off	Press and hold the power button. The buzzer sounds twice, indicating power on.

Control	Function
Unlock/Lock	In Beginner mode, press the unlock button to idle the motor. Press again to stop. In Manual mode, push the throttle rocker to the lowest position to stop.
Throttle Rocker	Controls vertical ascent/descent. Left throttle rocker has no spring-back for precise manual control.
Direction Rocker	Controls forward/backward, left/right movement.
Trim Functions	Adjust drone stability when drifting.
LED Light Switch	Short press to change the 7 LED colors.
Speed Switch	Short press to adjust speed (3 gears).
Head Motion Control	Connect audio cable to the remote and VR glasses for head motion control.

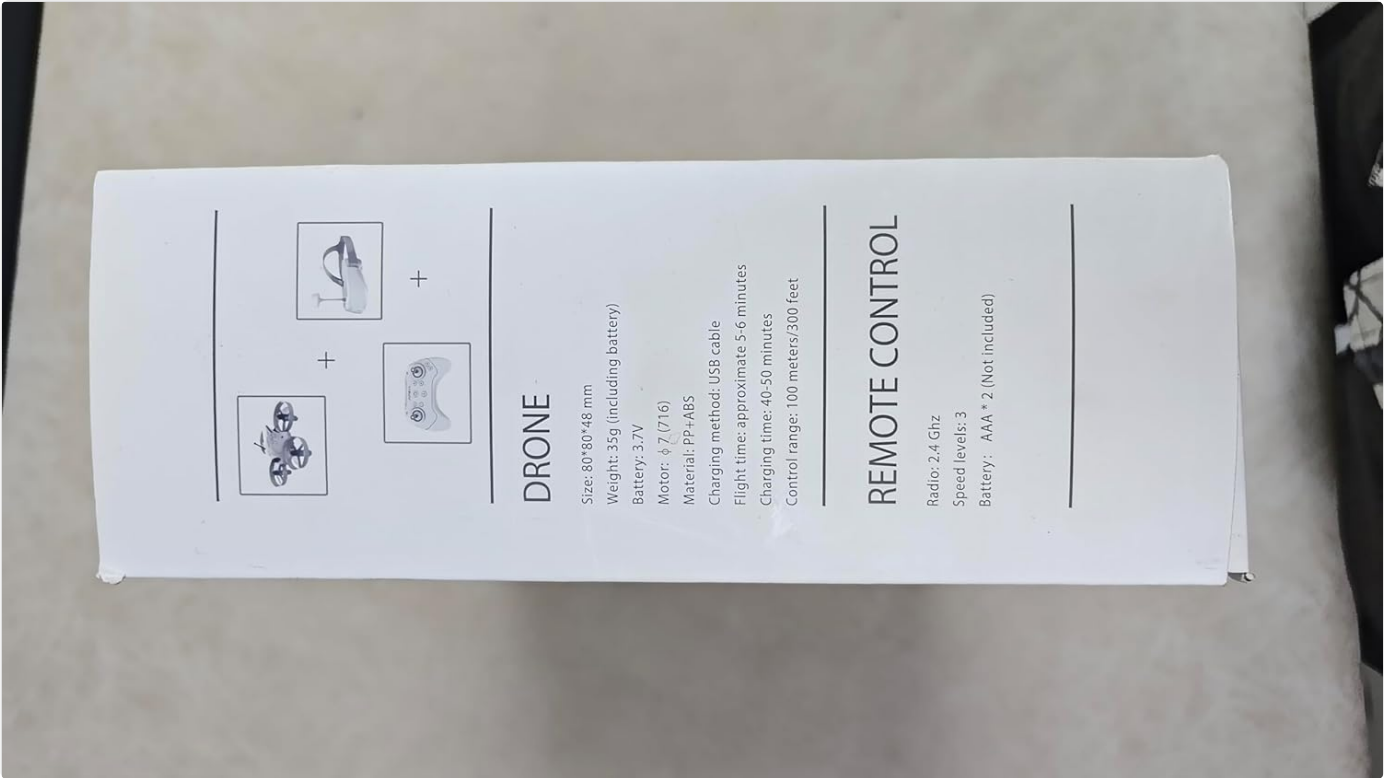


Image: Detailed diagram of the APEX VR70 remote controller with labels for all buttons and functions.

**FPV Goggles Usage:** The FPV goggles provide a real-time, low-latency video feed from the drone's camera, offering an immersive flight experience. The video signal is transmitted directly to the headset, which also handles recording. There is no SD card slot on the drone itself; recording is managed through the headset. This ensures minimal lag for a responsive flight.



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Image: A person wearing the APEX FPV goggles and holding the remote controller, experiencing immersive drone flight.

## MAINTENANCE

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To ensure the longevity and optimal performance of your APEX VR70 FPV Drone Kit, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the drone, controller, and goggles. Avoid using harsh chemicals or solvents.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends, chips). Replace damaged propellers immediately using the provided tool to maintain flight stability and safety.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge them to about 50% capacity.
- **Storage:** When not in use, store the drone and accessories in a safe, dry environment, away from direct sunlight and extreme temperatures.
- **Rotor Guards:** The drone features rotor guards to protect the propellers and prevent injury during minor collisions. While durable, inspect them for damage after impacts.

TROUBLESHOOTING

If you encounter any issues with your APEX VR70, refer to the table below for common problems and their solutions:

Trouble	Cause	Solution
Drone LED blinks, no response to commands	Pairing between drone and controller failed	Refer to the frequency alignment of remote controller and receiver in P3 (refer to controller instruction diagram).
Drone has no reaction to commands after turning on	Battery died	Charge the drone.
Blades keep moving after landing	Throttle lever is not at the zero position	Put the throttle lever to zero position.
Blades keep moving, drone cannot take off	1. Blades may be installed wrong 2. No enough power	1. Change the blades 2. Charge the drone.
After trimming, drone keeps spinning, speed of blades is different	1. Blades may be installed wrong 2. Blades get damaged 3. Calibration failed	1. Install the blades correctly 2. Replace the blades 3. Refer to P3 for calibration (refer to controller instruction diagram).
Drone cannot take off after drop	1. Blades are getting loose 2. Blades get damaged	1. Tighten the blades 2. Replace the blades.



Image: A table outlining common troubleshooting steps for the APEX VR70 drone.

SPECIFICATIONS

Feature	Detail
Brand	APEX

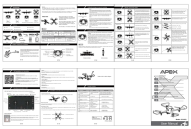


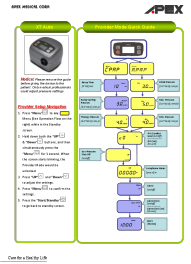
Feature	Detail
Model Name	VR70
Age Range (Description)	Adult
Color	White
Video Capture Resolution	480p
Connectivity Technology	RF
Included Components	Camera
Skill Level	Beginner
Item Weight	100 Grams (3.53 ounces)
Battery Capacity	400 Milliamp Hours
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Control Type	Remote Control
Media Type	SD (for headset recording)
Maximum Range	1000 Feet (approx. 300 meters)
Wireless Communication Technology	RF
Battery Cell Composition	Lithium Ion
Are Batteries Included	Yes (3 included)
Supported Image Format	JPEG
Video Output Resolution	480p
Remote Control Included?	Yes
Optical Sensor Technology	CMOS
Rechargeable Battery Included	Yes
Product Dimensions	9"L x 3.54"W x 1.57"H
Manufacturer	APEX
Country of Origin	China
Date First Available	November 4, 2021

## WARRANTY & SUPPORT

Your APEX VR70 FPV Drone Kit is designed for durability and performance. If you encounter any problems with the product, please contact our dedicated after-sales service staff. We are committed to resolving any issues you may have.

**Email Support:** [intisarshakiyla50@gmail.com](mailto:intisarshakiyla50@gmail.com)

## Related Documents - VR70

	<p><a href="#">APEX X-240G GPS Drone User Manual and Quick Start Guide</a></p> <p>Comprehensive user manual and quick start guide for the APEX X-240G GPS drone, detailing features, setup, operation, app integration, troubleshooting, and safety information.</p>
	<p><a href="#">APEX X-240G Drone User Manual and Quick Start Guide</a></p> <p>Comprehensive user manual for the APEX X-240G drone, covering quick start, features, setup, flight controls, app usage, maintenance, and troubleshooting. Includes FCC compliance information.</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><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><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><a href="#">APEX XT Auto Provider Mode Quick Guide</a></p> <p>A quick guide for medical professionals on how to use the APEX XT Auto device in Provider Mode, including setup navigation and resetting compliance meters.</p>