

SKYZONE Cobra X V4

SKYZONE Cobra X V4 FPV Goggles User Manual

Model: Cobra X V4

Brand: SKYZONE

1. INTRODUCTION

The SKYZONE Cobra X V4 FPV Goggles are advanced video goggles designed for an immersive First Person View (FPV) experience with racing drones. Featuring a high-resolution 1280x720 display, a 5.8GHz 48CH RapidMix Receiver, and integrated DVR capabilities, these goggles provide clear visuals and reliable signal reception for demanding FPV pilots. The built-in 3-axis accelerometer and 3-axis gyroscope enable precise head tracking, enhancing control and immersion.

This manual provides essential information for the proper setup, operation, and maintenance of your SKYZONE Cobra X V4 FPV Goggles. Please read it thoroughly before use to ensure optimal performance and longevity of your device.

2. PACKAGE CONTENTS

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

- Cobra FPV Goggles (Cobra X V4)
- Receiver Module
- Head Strap
- Power Cable
- Headtracker Cable
- Two 5.8GHz 2dD Antennas
- Video/Audio Cable
- USB-C Cable
- User Manual (this document)



Figure 2.1: Overview of the SKYZONE Cobra X V4 FPV Goggles.

3. KEY FEATURES

- **High-Resolution Display:** 1280x720 resolution on a 4.1-inch screen for the Cobra X V4 model, providing clear and detailed visuals. (Cobra S model features 800x480 resolution).
- **RapidMix Receiver:** Integrated 5.8GHz 48CH RapidMix Receiver ensures stable and strong signal reception, minimizing video breakup.
- **Digital Video Recorder (DVR):** H264 recording at 30fps, MOV format, 6Mbps bitrate. Supports SD cards up to 128GB for recording your flights.
- **Head Tracker:** Built-in 3-axis accelerometer and 3-axis gyroscope for precise head tracking, allowing for intuitive camera control.
- **Multi-language Support:** Cobra X V4 supports 10 different languages for menu navigation.
- **Versatile Power Input:** Compatible with 2-6S lithium batteries and features a 18650 battery compartment.
- **USB Connectivity:** USB-C port for firmware updates and data transfer.
- **Glasses-Friendly Design:** Ergonomically designed for comfortable use, even for users wearing glasses.

4. SETUP GUIDE

4.1 Powering the Goggles

The Cobra X V4 goggles can be powered by an external 2-6S LiPo battery via the DC IN port or by an internal 18650 battery (not included). Ensure the battery polarity is correct when inserting the 18650 battery.

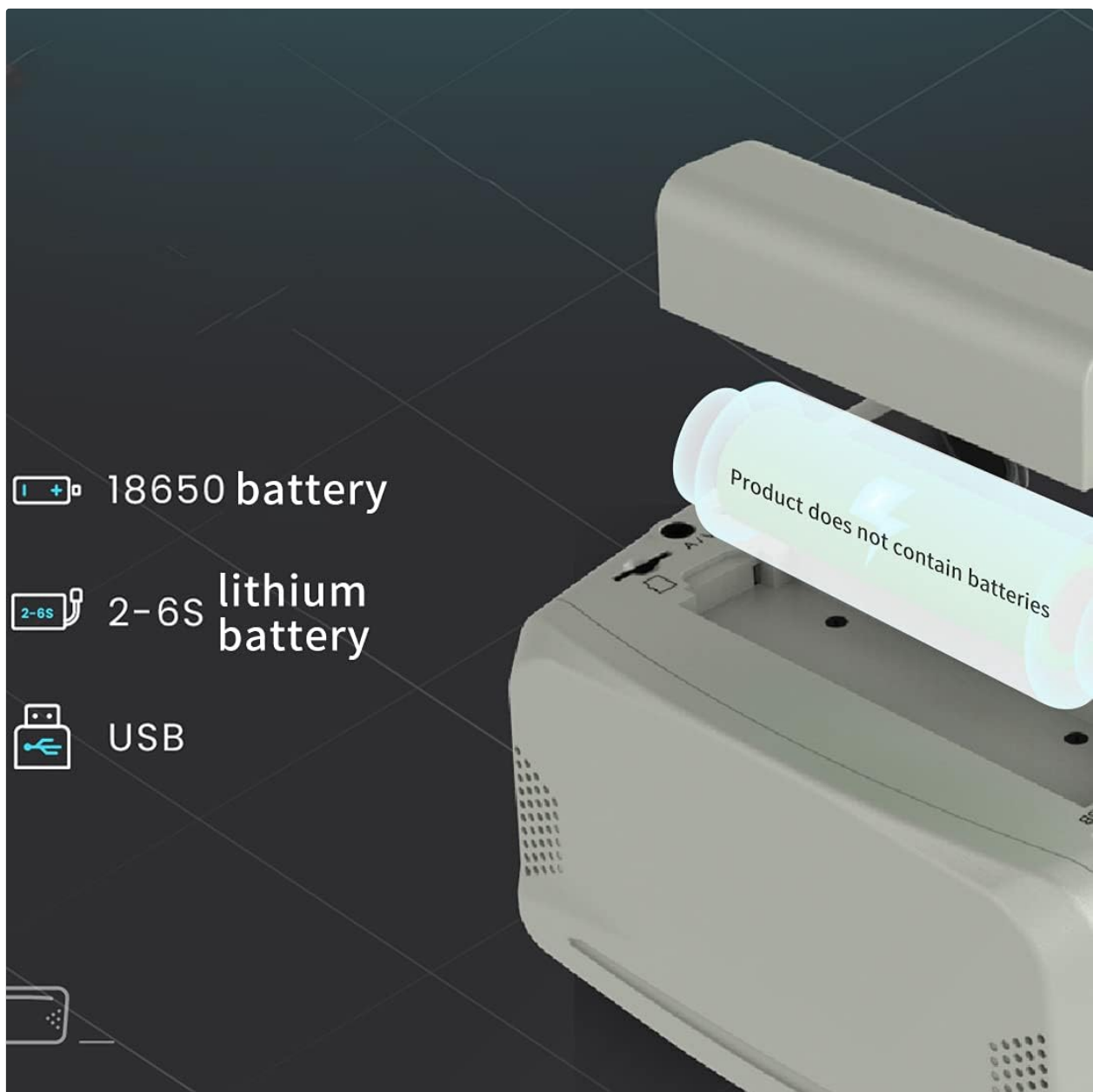


Figure 4.1: Battery compartment and USB port location.

4.2 Connecting Antennas

Screw the two 5.8GHz 2dD antennas onto the SMA connectors located on the top of the goggles. Ensure they are securely tightened for optimal signal reception.

4.3 Head Strap Installation

Attach the head strap to the designated slots on the sides and top of the goggles. Adjust the strap for a comfortable and secure fit on your head.

4.4 External Connections

The goggles feature various ports for external connections:

- **DC IN:** Power input.
- **HT OUT:** Headtracker output.
- **USB:** For firmware updates and data transfer.
- **A/V IN:** Audio/Video input.
- **HDMI IN:** High-definition video input.



Figure 4.2: Rear view with input/output ports.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

To power on, press and hold the power button located on the side of the goggles until the screen illuminates. To power off, press and hold the power button again until the screen turns off.

5.2 Menu Navigation

The goggles feature a dial wheel design for easy menu navigation and selection. Rotate the wheel to scroll through options and press it to confirm selections.

Dial the wheel design

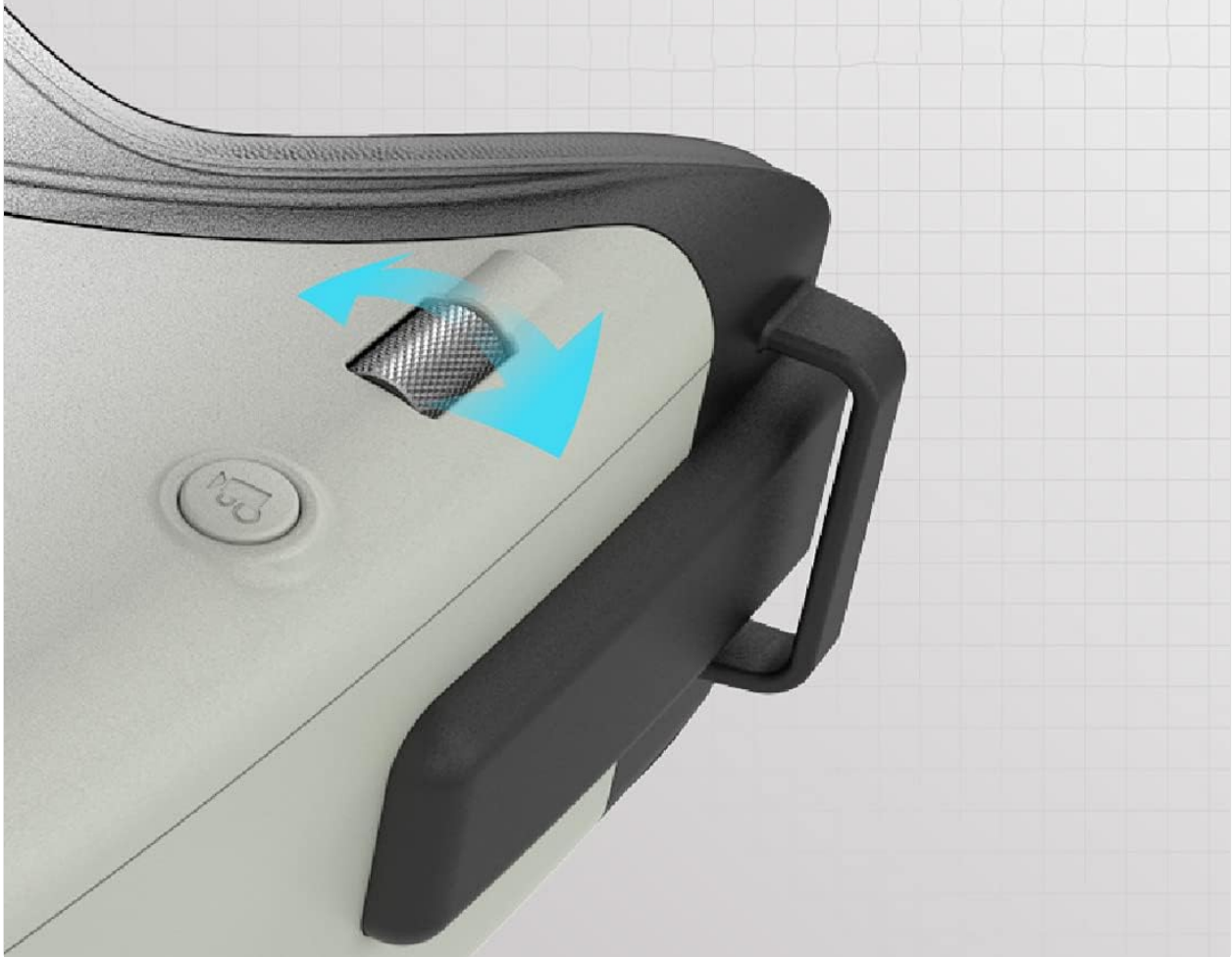


Figure 5.1: Dial wheel for menu navigation.

5.3 Channel Selection and Scanning

Use the menu to select the desired 5.8GHz channel. The RapidMix receiver automatically combines signals for the best possible reception. An auto-scan function is available to quickly find active FPV channels.

5.4 DVR Recording

Insert a compatible SD card (up to 128GB) into the SD card slot. Navigate to the DVR menu to start and stop recording. Recorded videos are saved in MOV format.

5.5 Head Tracking

Ensure the headtracker cable is connected to your compatible remote control. Calibrate the head tracker through the goggles' menu if necessary. This allows for camera movement based on your head's orientation.

Image quality is clear

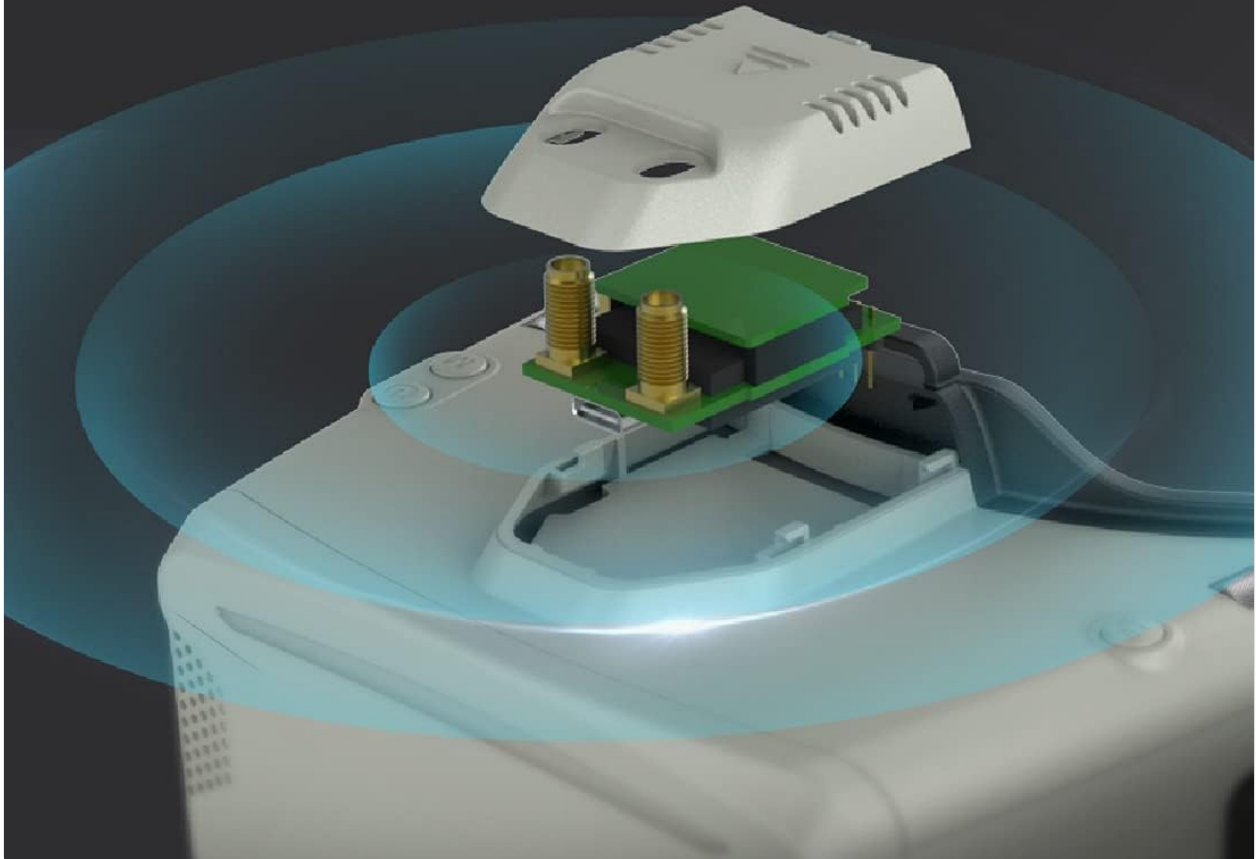


Figure 5.2: Internal receiver module for enhanced image quality.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the goggle's exterior. For the lenses, use a specialized lens cleaning cloth and solution to avoid scratches.
- **Storage:** Store the goggles in a cool, dry place away from direct sunlight and extreme temperatures. Use the provided carrying case (if applicable) to protect them during transport.
- **Battery Care:** If using an external LiPo battery, follow standard LiPo battery safety guidelines for charging and storage. If using the internal 18650 battery, ensure it is charged regularly and not left fully discharged for extended periods.
- **Firmware Updates:** Periodically check the SKYZONE official website for firmware updates. Use the USB-C cable to connect the goggles to a computer for updates.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No image on screen	Goggles not powered on; Low battery; Incorrect video input selected; No signal from drone.	Ensure goggles are powered on; Charge or replace battery; Check video input settings; Verify drone's video transmitter is active and on the correct channel.
Poor video reception / Static	Antennas loose or damaged; Incorrect channel selected; Interference; Drone too far or obstructed.	Tighten or replace antennas; Perform channel scan; Move to an area with less interference; Reduce distance to drone or clear obstructions.
DVR not recording	SD card full or not inserted; SD card corrupted; Incorrect DVR settings.	Insert or replace SD card; Format SD card (backup data first); Check DVR recording settings.
Head tracker not working	Headtracker cable not connected; Not calibrated; Remote control not configured.	Ensure headtracker cable is securely connected; Perform head tracker calibration; Refer to your remote control's manual for head tracker setup.

8. SPECIFICATIONS

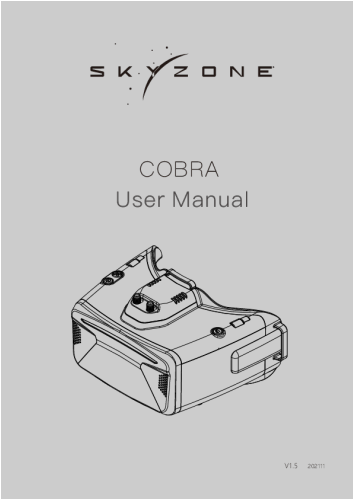
Feature	Detail
Model Name	Cobra X V4
Display Resolution	1280x720 (Cobra X V4), 800x480 (Cobra S)
Screen Size	4.1 inch (Cobra X V4), 4.3 inch (Cobra S)
Receiver	5.8GHz 48CH RapidMix Receiver
DVR Recording	H264, 30fps, MOV 6Mbps (Cobra X V4); MJPEG (Cobra S)
SD Card Support	Up to 128GB
Head Tracker	3-axis Accelerometer, 3-axis Gyroscope
Connectivity Technology	USB, A/V, HDMI
Power Input	2-6S LiPo, 18650 Battery (not included)
Dimensions	122 x 165 x 100mm
Weight	332g
Color	Black
Material	Plastic
UPC	030391995340
Manufacturer Part Number	F42931 F42932

9. WARRANTY AND SUPPORT

SKYZONE products are manufactured to high-quality standards. For specific warranty information and terms, please refer to the warranty card included with your product or visit the official SKYZONE website. Keep your proof of purchase for any warranty claims.

For technical support, troubleshooting beyond this manual, or service inquiries, please contact SKYZONE customer support through their official channels.

Documents - SKYZONE – Cobra X V4



[\[pdf\]](#) User Manual Specifications

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COBRA User Manual V1.5 202111 Specifications Model Screen Resolution FOV Diagonal Aspect Ratio Receiver Language Power Supply Power Consumption DVR Head Tracker Dimentions Weight **Cobra X V4** LCD 1280X720 50 4:3/16:9 5.8Ghz 48 CH SteadyView Receiver 10 Language 1Cell 18650/DC 6.5-25.2V/USB 5V 12V... lang:en score:38 filesize: 799.04 K page_count: 8 document date: 2024-11-06



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