

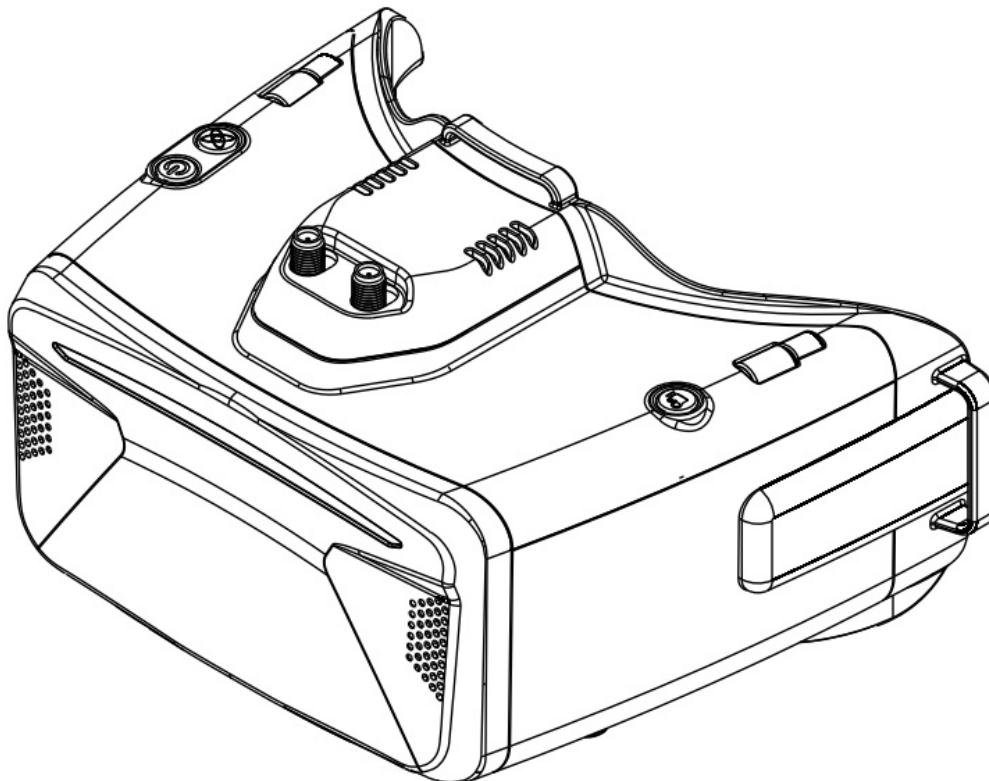


SKYZONE COBRA X LCD FPV Goggles User Manual

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User Manual
COBRA X



V1.3 202011

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Specifications

Model	Cobra X
Screen	LCD
Resolution	1280X720
FOV(Diagonal)	50°
Aspect Ratio	4:3/16:9
Receiver	5.8Ghz 48 CH SteadyView Receiver
Language	10 Language
Power Supply	1Cell 18650/DC 6.5-25.2V/USB 5V
Power Consumption	12V 0.63A 5V 1.5A
DVR	H264, 30fps,MOV 6Mbps, SD up to 128Gb
Head Tracker	3-axis Accelerometer, 3-axis gyroscope
Dimensions	122*165*100mm
Weight	332g

BAND/CHANNEL table

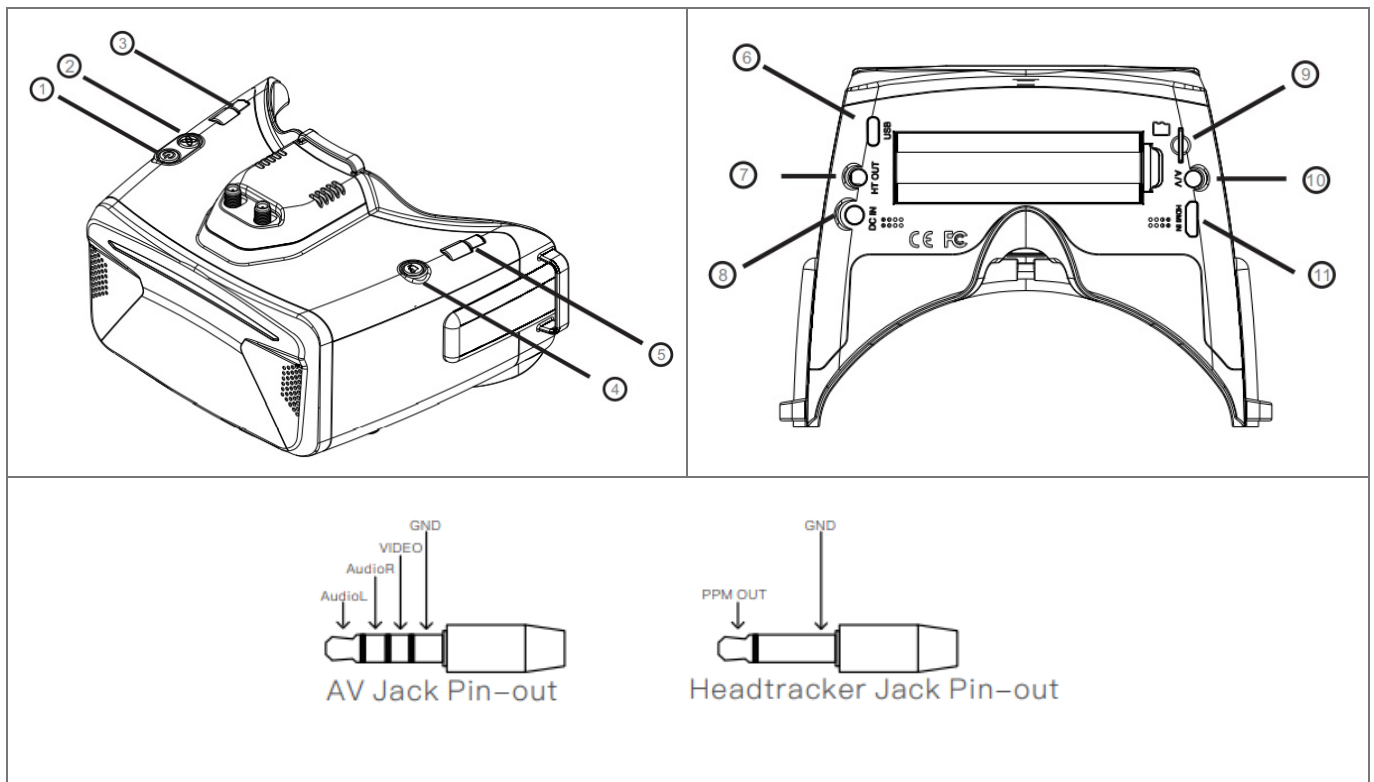
BAND/CH table

BAND/CH	CH 1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865M	5845M	5825M	5805M	5785M	5765M	5745M	5725M
B	5733M	5752M	5771M	5790M	5809M	5828M	5847M	5866M
E	5705M	5685M	5665M	5645M	5885M	5905M	5925M	5945M
F	5740M	5760M	5780M	5800M	5820M	5840M	5860M	5880M
R	5658M	5695M	5732M	5769M	5806M	5843M	5880M	5917M
L	5362M	5399M	5436M	5473M	5510M	5547M	5584M	5621M
Sensitivity		-98dBm±1 dBm						
Antenna port		2 X SMA-K,50ohm						

Package Included

1. Goggles*1 2. Receiver Module*1 3. Head Strap *1 4. Power cable*1 5. Headtracker cable*1	6.5.8GHz 2dD antennas*2 7.Video/Audio Cable*1 8. USB-C Cable*1 9. User Manual*1
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Diagram



1. Power/Fan
2. System Menu/Headtracker reset
- 3.CH/BAND/Search
- 4.Record/Delete
5. Mode
6. USB C port

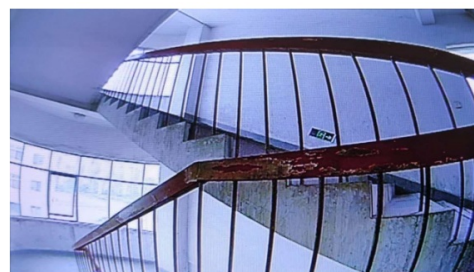
- 7.3.5mm Head tracker port
8. DC PORT(5.5*2.1mm)
9. SD card slot
10. AV IN/OUTPUT
11. HDMI input

Introduction

The SKYZONE Cobra X is an FPV goggle with a 1280*720 high-resolution LCD screen, the screen has vivid color and high luminance, the pilot can see more details in the racing. With SteadyView receiver, the receiver merges two signal to one, avoid image tearing and rolling when the signal is weak, make the image more stable and clear in challenging condition. The goggle support pilot wears glass while flinging. The new OS with 10 languages to set select, the pilot has no trouble with the menu system, with shuttle wheel and new user interface, the pilot can set all the settings just by rolling the wheel without taking off the goggle. the goggles can be power by 1 cell 18650 battery or a 2~6s lipo battery, the USB charging and DC charging make goggles simple to use in the filed.



Diversity



SteadyView



DO NOT EXPOSE THE LENS DIRECT TO SUNLIGHT, OTHERWISE, THE SCREEN WILL BURN IN.

Quick Start Guide

1. Install the receiver and antenna.
2. Plug the battery into the battery bay or use the power cable to connect the battery to the goggle, Goggle can power by 2~6cells lipo battery, hold the power button to turn on.

Band and Chanel setting

1. Press the right wheel, then roll the right wheel to change the channel, press the wheel again switch to Band setting mode, then roll the wheel to change the Band.
2. No wheel operation for 3 seconds RF setting will back to the channel setting mode.
3. Hold the right wheel to pop up the search menu, press the right wheel to start the auto search, after searching all the frequencies, the receiver will work on the strongest signal. roll the right wheel to manually select the channels, short press the right wheel to quit the search.



Sometimes the auto search channel is not accurate, the user may need to manually select the channel.

MODE MENU

- Short press the left wheel to pop up the mode menu.
- RF normal: this mode is normal 48 CH receive mode.
- RF Racing: this mode will make the receiver only working on RaceBand.
- RF Third-Party: in this mode, the goggles button cant control the external receiver, also the OSD of the goggles cant read the band/channel of the receiver, third party receiver must plug into the left module bay.
- AVIN: when enabling the AV IN mode. The NTSC and PAL system format can be supported to be automatically switched. The receiver module will be automatically turned off to save the power.
- HDMI IN: the receiver module and the video recording module will be automatically turned off to save the power.
- It is recognized that the screen and the corresponding resolution information will be automatically displayed in the supported resolution format.
- Playback: in this mode, customers can review the DVR files.

SYSTEM MENU

- Short press the right button to pop up or quit the system menu.
- Roll right shuttle wheel to navigate. press the wheel into the sub-menu.
- In the image setting menu, customers have standard, bright, vivid, soft, and 3 customized files to select, customer can adjust Brightness. Contrast, Saturation, Km, and Sharpness to suit different environments. 'System language can select Eng list. French. German. Russian. Italian, Spanish. Chinese, Japanese, Korean.
- In the power supply menu, the user can choose battery type (2S-6S) to make sure goggles shown the real capacity of the battery.
- Voltage calibration gives the user -20.9V range to adjust the voltage. when calibrating the voltage. use a multimeter to measure the loaded voltage of the battery, then use a shuttle wheel to adjust the voltage on OSD to match the real voltage.
- Factory Reset: user can reset all the functions and settings them in this menu.

- OVA FW upgrades: user can upgrade DVR Firmware from the SD card in this menu.
- Firmware version: Goggles Firmware OVA Firmware version and Serial Number will be shown in this menu.



The function of the wheel and buttons can be swapped from the left side to the right side, makes to adapt to left-handed users. when rotary switch is enabled, all the function in manual is changed from left to right.

DVR

- Left button is the recording button and the stops button.
- Build-in OVR H264 encoding. SD card recommends Class10. SD card can support up to 128GB.
- SO card must be formatted into FAT32, user can get into the system menu to select the Format SO.
- The video recording function can be used in both the RF Mode and the AV IN Mode.
- By default. when recording the video (including recording the sound)the 'sound record inc' function can be turned off in the system menu, but the video signal can be recorded coy.
- Automatic recording: enable this function, if the video signal has been detected, the recording function will be activated automatically. The recording function can also manually be stopped by press the AEC button.
- Cyclic recording: Overwriting of older recordings on or off (in case of storage space is wasted).
- The video recording file will be automatically divided into multiple files. In the menu system, the video length can be set as 5minutes, 10 minutes, 20 minutes, and 30 minutes. The default video length can be set as 30 minutes / each
- If the power has been suddenly disconnected in the video recording process, the OVR will be damaged. The goggles have a repairing function. After entering into the playback mode the last OVR will be automatically checked. If it is damaged. the OVR will be automatically repaired.

PLAYBACK

- In playback mode, roll the right wheel to choose the OVR, short press the right wheel to play, and pause.
- Left wheel to adjust the volume.
- When playing the OVA, roll the right wheel to Fast Forward or Fast backward
- Press the R fight button to quit OVR.
- Press the Left button to delete OVR.

DISPLAY

- In-Display setting menu, the customer can change the aspect ratio(4:3 or 16:9), the default is 4:3.
- In-Display menu, the customer can set the RSSI icon: icon + percentage, Icon, Percentage, disable, also adjust the vertical position of the RSSI.
- The luminance of the screen and adjust in the menu (3 stages, default is 2). Normally do not set the brightness too high unless the image is dim.

Image Mode

- image setting menu, customer have standard, bright, vivid, soft and 3 customized s to adjust.
- Customers can adjust Brightness, contrast, saturation, Hue, and Sharpness to suit different environments in 3

users 1/2/3, the image set can not change in 4 Pre-set files.

Head Tracking

- The head tracking button is on the right side of the goggles.
- The gyro is required an initialization time. When it is powered on, goggles must be kept horizontal and stable as long as possible. When hearing the sound of a “beep”, the initialization is done.
- Hold the HT button to reset the PPM signal to the center, goggles will beep when pressing the button.



Disable the Headracker can save the gyro initialization time to speed up the goggles boot time.

FAN

- The built-in fan can not only be mainly used for defogging but also can be used to dissipate the heat within the product. The speed can be set in the system menu.
- Press the POWER button to start up/stop the fan from defogging.
- Users can manually set the fan speed to adjust the fan noise.



The fan will auto turn on when the temperature is over a certain point.

Firmware Update

Goggles

1. Connect goggles to the computer.
2. Hold the left wheel when turn on the goggles, the USB cable will power the goggles, release the left button, the computer will automatically install the driver, the computer will show new removable storage.
3. Copy the Firmware File to the folder(Not the SD card). goggles will install the update at the same time.



Even enabled the rotary switch function, the boot button is still the left button. when the copy process is done, the firmware upgrade is done.

DVR

1. Take an SD card and format the card to FAT32.
2. Copy the DVR Firmware to the SD card, insert it in the goggles and turn it on.
3. Go to the system menu and choose DVR FM upgrade.

Receiver Firmware

1. Take the receiver out, hold the boot button when connecting the receiver to the computer.
2. The computer will automatically install the driver, the computer will show new removable storage.
3. Copy the Firmware File to the folder(Not the SD card). goggles will install the update at the same time. when the copy process is done, the firmware upgrade is done.

Charging


- The goggles are integrated with the charging module user can choose a USB charge or use a barrel connector charge.
- when goggles are powered via barrel connector the external power is also charging the internal 18650 battery.
- DC and Type C can both charge the internal 18650 battery.
- For safety, do not charge the battery unattended.
- The 18650 battery bay has a protection circuit, if remove the battery without turn off the goggle, the battery will in protection status, to quit protection, the goggle needs to use a DC cable or USB cable to charge the battery to quit this mode.

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Documents / Resources

	<p>SKYZONE COBRA X LCD FPV Goggles [pdf] User Manual COBRA X, LCD FPV Goggles</p>
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