



— 高清图传 | HD VTX —

VR04

FPV眼镜 | FPV goggles

使用说明书 | USER MANUAL

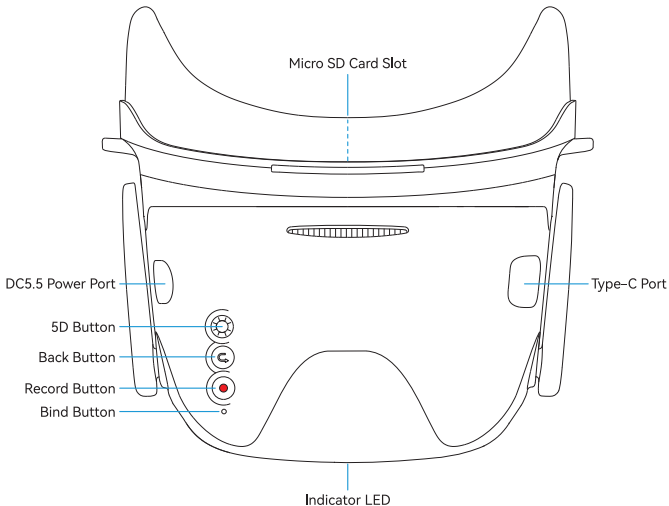
第 III 版 2026-03-11

VR04 HD FPV goggles is a wireless image transmission headset display developed by BETA FPV, enabling long-range, low-latency, high-definition wireless image transmission. It has maintained the BETA FPV design philosophy for having a minimalist appearance, straightforward operations, and ergonomic design. The goggles aim to deliver a enjoyable user experience for all FPV enthusiasts.

1. Specification

Name	VR04 HD
Size	168.8x182.1x98.5mm
Weight	400g±10g
Screen Size	4.5 inch
Resolution	1920*1080@60Hz
Screen Material	LCD
SD Card Slot	Maximum of 1T Storage
Communication Frequency	5.725-5.850GHz
Effective Isotropic Radiated Power(EIRP)	FCC:<23dBm; CE:<14dBm
Port	USB-C; Micro SD Card slot; DC5.5x2.1mm
Transmission Resolution	1080p@60fps
Video Transmission Bitrate	Up to 25Mbps
Transmission Range	> 200m
Input Voltage	5.5-26.4V
Operating Power	Up to 5W (Pro version: up to 7W)
Charging Power	Up to 15W

2. Basic Function

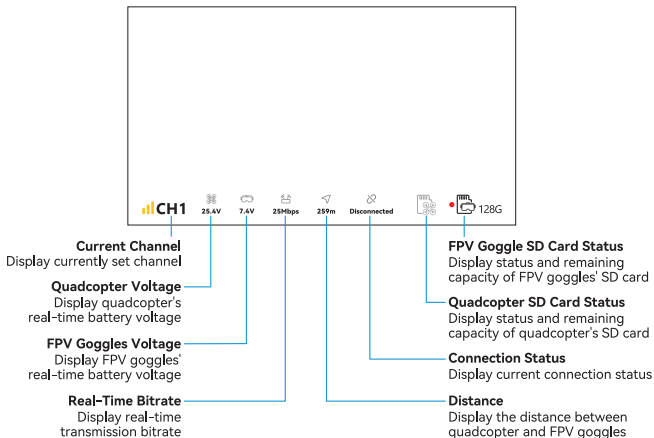


- **DC5.5 Power Port:** Voltage range 5.5-26.4V, DC 5.5 port.
- **Bind Button:** Press to enter binding mode. The binding process lasts for 30 seconds.
- **Record Button:** Press to start or stop recording when the video feed is connected.
- **Back Button:** Press to return to the previous menu.
- **5D Button:** Press to enter main menu. Tilt up/down/left/right for navigation. Press to confirm selection.
- **Type-C Port:** After inserting the Micro SD card and connecting it to the computer, you can operate the SD card disk. Pro version supports video output.
- **Micro SD Card Slot:** Support maximum 1T storage.

Note: It is recommended to use an SDXC card with a speed class of V30/U3 or higher to prevent recording loss or errors.

2.1 Home Screen Description

After powering on and completing startup, the default interface is the Home Screen. The bottom of the Home Screen displays several key parameter indicators.



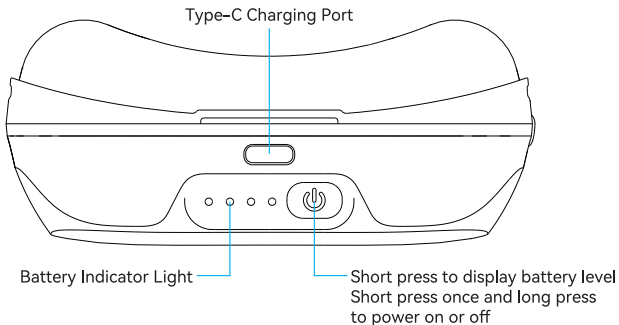
Note: SD card status: gray light is displayed when no SD card is inserted, bright color is displayed when an SD card is inserted, a red dot flashes when recording, no red dot is displayed when not recording, and Full is displayed when the card is full.

2.2 Power Supply for FPV Goggles

FPV goggles is powered by an external battery through DC5.5 power port, supporting 2-6S and a voltage range of 5.5-26.4V. When voltage is lower than 5.5V during 2S power supply, the LED light on the front of FPV goggles will flash quickly. When voltage of a single battery cell of 3S, 4S, or 6S is lower than 3.5V, the LED light will flash quickly.

LED Light Status	Goggles Status
LED Off	Powered Off
LED Stays On	Powered On
LED Flashing Fast	Low Battery

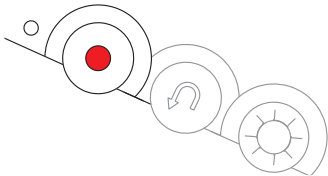
Two 18650 batteries can be inserted after removing the battery cover on the headband. Once inserted, short press the power button enables battery level checking. After short pressing once and long pressing the power button, plug DC5.5 power cable into goggles's power input port to turn on.



Note: When only left one battery indicator light flashes, recharge the battery timely to prevent the goggles screen from turning off due to low power.

2.3 Recording and Playback

Recording: VR04 HD FPV goggles support Micro SD card installation. After installation, the SD card icon changes from gray to bright, indicating that the SD card is read successfully. After connecting to the quadcopter display, press the record button. A red dot next to the SD card icon will flash, indicating that the recording has started. **After the flight, you need to press the record button again to end the recording, otherwise the recording may fail.**



Short press to start recording, short press again to stop recording and save



The red dot flashes to show that the recording is active

Playback: Enter the playback interface and select the video list. A short press allows you to view the recorded video, while a long press on the 5D button allows you to delete the video file. On the video playback screen, click the 5D button to pause/play, and use the left and right arrow keys to rewind/fast forward.

Note: When using a Micro SD card on this device for the first time, we recommend formatting the card to ensure more stable performance. Formatting permanently deletes all data on the card and makes it irrecoverable. Please proceed with caution.

2.4 How to Bind

Pre-binding Preparation:

1. Turn on the quadcopter and the FPV goggles. Keep all devices within 2 meters of each other and ensure all devices are updated to the latest firmware.

Button Operation:

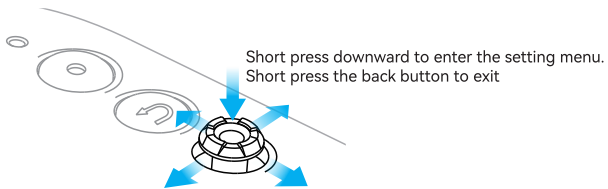
1. Press the bind button on both the goggles and the quadcopter respectively. Once linked, the quadcopter's VTX indicator LED will flash red quickly, and the goggles will emit a "beep-beep" buzzer sound.

2. Upon successful binding, the quadcopter's VTX indicator LED will be solid green, and the goggles will emit a long "beep". The video feed will appear once the beep ends.

Note: Before use, please make sure that the battery is fully charged, the headband is correctly installed, and adjusted to a comfortable size.

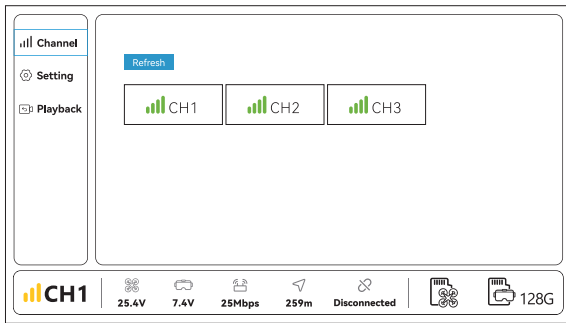
3. Menu Settings Guide

Press the 5D button to enter the menu setting interface of the FPV goggles. In this menu, you can view and set some parameters of the FPV goggles.



On the main interface, short press the 5D button will open the menu. The 5D button can be used to select menu items by going up, down, left, and right. Pressing the back button will return to the previous menu.

3.1 Channel Interface



In normal mode, 3 channels are displayed. In racing mode, 16 channels are displayed. When you enter the current interface, click "Refresh" to refresh the intensity of all frequency bands.

In normal mode, the three channels are:

Channel1: 5758MHz (5753-5763MHz)

Channel2: 5788MHz (5783-5793MHz)

Channel3: 5828MHz (5823-5833MHz)

In racing mode, the 16 channels are:

Channel1: 5658MHz (5653-5663MHz)

Channel2: 5695MHz (5690-5700MHz)

Channel3: 5732MHz (5727-5737MHz)

Channel4: 5769MHz (5764-5774MHz)

Channel5: 5806MHz (5801-5811MHz)

Channel6: 5843MHz (5838-5848MHz)

Channel7: 5880MHz (5875-5885MHz)

Channel8: 5917MHz (5912-5922MHz)

Channel9: 5620MHz (5615-5625MHz)

Channel10: 5580MHz (5615-5625MHz)

Channel11: 5540MHz (5535-5545MHz)

Channel12: 5500MHz (5495-5505MHz)

Channel13: 5460MHz (5455-5465MHz)

Channel14: 5420MHz (5415-5425MHz)

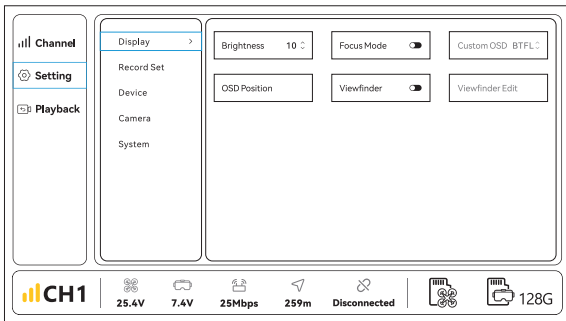
Channel15: 5380MHz (5375-5385MHz)

Channel16: 5340MHz (5335-5345MHz)

Note: The main difference between the two modes is that the racing mode has more frequency points to choose from. For example, in an indoor Wi-Fi condition (usually 5.8 GHz), image transmission distance is short and susceptible to interference. You can manually switch to racing mode and select Channel 16 (5330-5350MHz) to avoid interference bands and achieve better transmission distance and image quality.

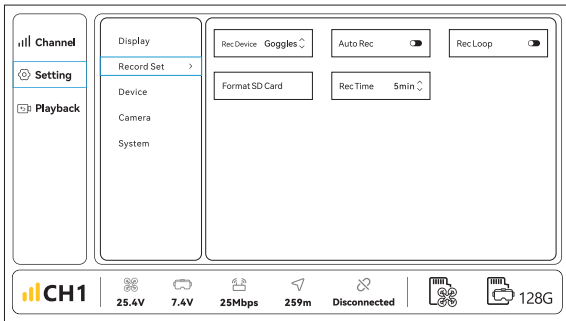
3.2 Settings Interface

Display Interface



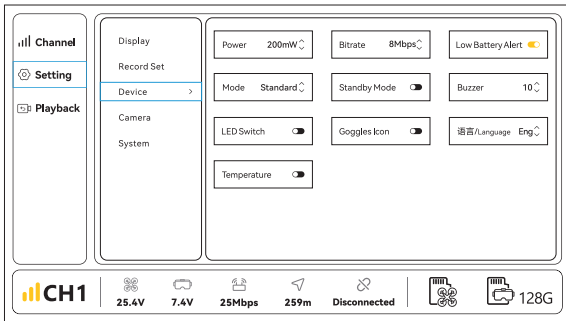
On the Display interface, you can configure the screen brightness, focus mode, OSD position, and viewfinder.

Recording Interface



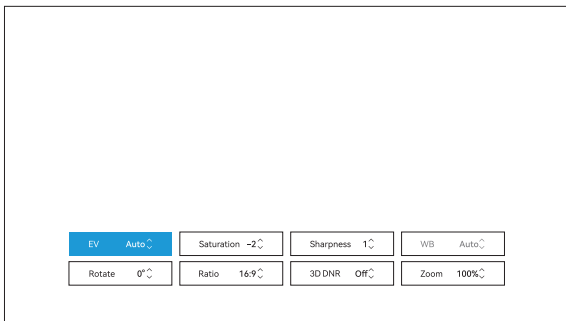
On the Recording interface, you can configure recording and SD card settings.

Device Interface



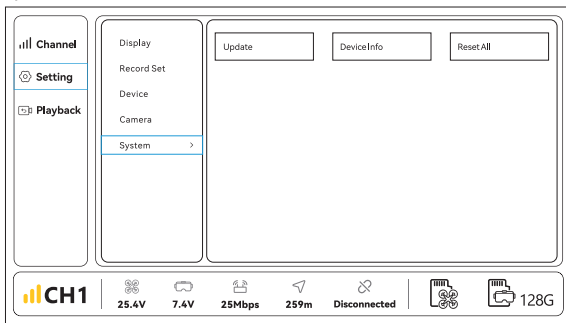
On the Device interface, you can configure parameters for the goggles.

Camera Parameter Interface



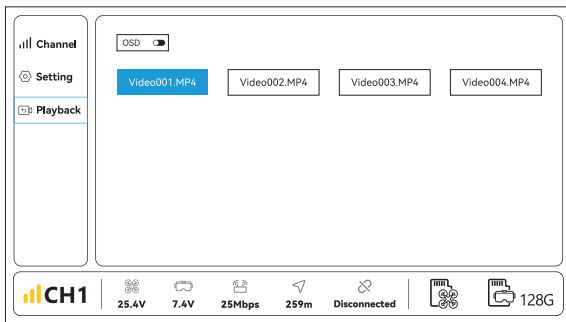
Press the "Camera" button to enter the camera parameters menu. On this interface, you can navigate to view and configure additional settings.

System Interface



On the System interface, you can view system information, update the system, or reset to factory settings.

3.3 Playback Interface



On the Playback interface, you can review recorded videos. The OSD switch enables showing or hiding the quadcopter's flight data on recording videos.

4. Firmware Update

1. Copy the firmware for the quadcopter and goggles to an SD card and insert the SD card into the goggles.
2. Power on the quadcopter and goggles, and ensure they are successfully connected.
3. Click "Setting → System → Upgrade → Start" to upgrade both the quadcopter and goggles simultaneously.
4. After the upgrade is successful, restart the quadcopter and goggles.

Note:

1. Make sure to follow the steps to upgrade the firmware, otherwise the upgrade may fail.
2. The entire upgrade process will take some time. Please wait patiently for the firmware upgrade to complete.
3. Make sure the device is fully charged before upgrading the firmware.
4. Do not turn off the power during the upgrade process.
5. After the firmware upgrade, the setting parameters will be reset. Please reset them after the upgrade is complete.
6. If you want to upgrade only the quadcopter or the FPV goggles, simply copy the corresponding firmware.

Visit the following link to refer to the release notes for information on all versions of firmware upgrades.

VR04 HD: <https://support.betafpv.com/hc/en-us/articles/53798961852185-Firmware-for-VR04-HD-FPV-Goggles>

VR04 HD Pro: <https://support.betafpv.com/hc/en-us/articles/55872193522329-Firmware-for-VR04-HD-Pro-FPV-Goggles>

5. Attention

Please turn off the power and store it in a safe place after use. If the device is not used for a long time, please charge it every three months, otherwise the battery will be damaged.

Please stop using and recharge it as soon as possible after the low battery alarm. Otherwise, the device may shut down or the battery may be damaged.

Avoid direct sunlight on the goggles's lense, otherwise it may cause screen burns.



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