HGLRC VR001

Analog 5.8 GHz FPV goggles with DVR
User manual



Read this manual carefully before first use and keep it for future reference.

www.rotorama.com

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1. Safety instructions

Read the entire manual carefully before first use. Failure to follow these instructions may result in damage to the goggles, injury or damage to property.

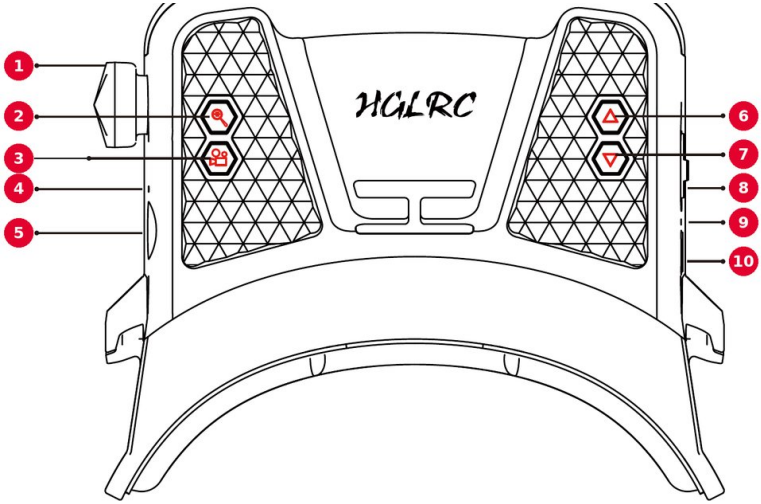
- This product is intended for persons aged 14 and over. It is not a toy – keep it out of reach of small children.
- Do not leave the goggles in direct sunlight. The optics can focus sunlight onto the screen and permanently damage it.
- When flying with FPV goggles, the pilot cannot see the surroundings. Always fly with an observer who watches the drone and its surroundings directly, and follow the drone regulations of the country in which you fly.
- The goggles contain a built-in lithium battery. Charge them only via the USB-C port using a 5V output adapter, on a non-flammable surface and under supervision.
- Do not use or charge goggles that are damaged, swollen or overheated.
- Protect the goggles from moisture, dust, drops and extreme temperatures. Do not disassemble or modify the goggles.
- When the battery voltage is low (red battery icon on the screen), stop using the goggles immediately and recharge them. Otherwise, there is a risk of sudden shutdown or battery damage.

2. Product specifications

Category	Parameter	Value
General	Dimensions	147×127×90 mm
	Weight	312 g
	Channel support	80CH
Screen	Video system	NTSC/PAL
	Screen size	4.3 inches
	Resolution	800×480
Power	Battery	3.7 V 2500 mAh
	Battery life	Approx. 2 hours
Interfaces	Charging port	Type-C
	Card slot	Micro SD card
DVR video	Video resolution	720×240
	File format	AVI

3. Goggle overview

3.1 Button functions and indicators



Top view of the controls

①	Retractable antenna	⑥	Band button
②	Auto-scan button	⑦	Channel button
③	Recording button	⑧	Power switch
④	Recording indicator	⑨	Charging indicator
⑤	SD card slot	⑩	USB charging port

▶ Power switch ⑧

Slide the switch left or right to turn the goggles on or off. When facing the buttons, the left position is **ON** and the right position is **OFF**.

▶ Auto-scan button ②

- **Short press:** initiates the auto-scan function. The goggles will automatically scan and lock onto the channel with the strongest signal. During scanning, pressing the button again pauses the process.
- **Long press (3 s):** enters the system menu. Within the menu, the button can only be used with a short press to select or confirm options.

▶ Recording button ③

Short press: starts recording. During recording, a further short press stops the recording.

▶ **Band button ⑥**

- **Short press:** switches to the next frequency band according to the frequency table, cycling through the available bands.
- **Long press (2 s):** enters the DVR playback interface. Long-press again for 2 s to exit the DVR playback interface.

▶ **Channel button ⑦**

Short press: switches to the next channel according to the frequency table, cycling through the available channels.

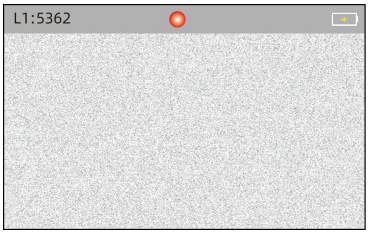
▶ **Recording indicator ④**

When recording is enabled, the external indicator remains steadily lit (blue) and the recording indicator (red dot) in the on-screen status bar remains steadily lit. When recording is disabled, both indicators turn off.

▶ **Charging indicator ⑨**

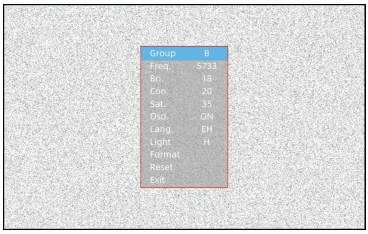
When connected to a USB cable (a 5V output adapter is sufficient), a **red** indicator light signifies that charging is in progress. A **green** indicator light indicates that charging is complete and charging should be stopped.

3.2 Display interface



Main interface

- **Top left:** band, channel and frequency (e.g. L1:5362 = band L, channel 1, 5362 MHz).
- **Top centre:** red dot while recording.
- **Top right:** battery status. When the voltage is low, the icon turns red.



System menu interface (long press of button ② for 3 s)

Item	Meaning
Group	Frequency band
Freq.	Frequency
Bri.	Brightness
Con.	Contrast
Sat.	Saturation
Osd.	On-screen display (ON/OFF)
Lang.	Menu language (Chinese / English)
Light	Screen backlight
Format	Format the microSD card
Reset	Reset to default settings
Exit	Exit the menu

4. Channel selection

The goggles support full reception of 5.8G video transmission channels (optimal performance), as well as the extended 4.9G and 6.0G frequency bands (good performance). With 10 frequency bands and 8 channels each, a total of **80 channels** are available. To receive video, the goggles must be tuned to the same frequency as the video transmitter (VTX) on the drone.

- **Automatically:** short-press button ② and the goggles will search for and lock onto the channel with the strongest signal in the current environment.
- **Manually:** use the band ⑥ and channel ⑦ buttons to switch to a specific channel according to the table below.

Band	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880
R	5658	5695	5732	5769	5806	5843	5880	5917
L	5362	5399	5436	5473	5510	5547	5584	5621
U	5325	5348	5366	5384	5402	5420	5438	5456
O	5474	5492	5510	5528	5546	5564	5582	5600
H	5653	5693	5733	5773	5813	5853	5893	5933
X	4990	5020	5050	5080	5110	5140	5170	5200

Channel frequencies in MHz

※ The goggles only receive video. The user is responsible for the frequency and output power of the video transmitter on the drone. In the Czech Republic, the band 5725–5875 MHz with a maximum of 25 mW e.i.r.p. is available for licence-free FPV transmission (VO-R/10). Outside the Czech Republic, the regulations of the country in which the product is operated apply.

5. DVR recording

5.1 Start/stop recording

① Insert an SD card into the microSD card slot ⑤. If using the card with this device for the first time, it must be formatted using the goggles (menu item *Format*). Maximum supported capacity is **64GB**.

② Short-press the recording button ③. The indicator light beside the SD card slot stays steadily lit (blue) and a red dot appears at the top centre of the screen, indicating that recording has started.

③ Short-press the recording button ③ again. The blue indicator light turns off and the red dot disappears, indicating that recording has stopped.

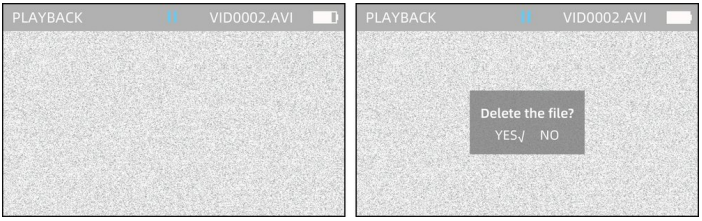
※ Each video recording lasts up to approximately 6 minutes. For longer recordings, recording must be started again manually.

5.2 Playback

① Ensure an SD card is inserted and contains video files recorded by the goggles.

② Press and hold the band button ⑥ for 2–3 seconds to enter the playback interface.

③ Press and hold the band button ⑥ again for 2–3 seconds to exit the playback interface.



Playback interface and file deletion dialog

Within the playback interface, the button functions are modified as follows:

- **Band button ⑥:** previous video.
- **Channel button ⑦:** next video.
- **Recording button ③:** play the current video; press again to pause playback.
- **Auto-scan button ②:** brings up a selection dialog (*Delete the file?*). Use buttons ⑥ and ⑦ to toggle between YES and NO, and confirm with button ②.

5.3 Playback on a computer

If the video appears stretched or distorted when played on a computer, we recommend using PotPlayer or VLC Player and setting the video aspect ratio to **4:3** in the player settings.

6. Power and charging

The goggles are powered by a built-in **3.7 V 2500 mAh** battery with a battery life of approximately **2 hours**. The battery status is shown in the upper-right corner of the screen.

① Connect a USB-C cable to the charging port ⑩ and to an adapter with a 5V output.

② While charging, the indicator ⑨ lights red.

③ When the indicator turns green, the battery is fully charged. Stop charging and disconnect the cable.

※ When the voltage is low (red battery icon), recharge the goggles as soon as possible. Otherwise, there is a risk of sudden shutdown or battery damage.

7. Care and storage

- Turn off the goggles with the power switch ⑧ after use.
- If the goggles will not be used for an extended period, recharge the battery **every three months** to avoid damage caused by over-discharge.
- Fold the antenna ① before storage.
- Store the goggles in a dry place, away from direct sunlight and heat sources.
- Clean the optics only with a dry, soft lens cloth, without solvents.

8. Information for the EU and Czech Market

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

8.2 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** the type designation (HGLRC VR001) and the serial number are given on the product or its packaging.

8.3 Disposal of electrical equipment and batteries



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The product contains a built-in rechargeable battery. Where possible, hand it over together with the device – do not dispose of the battery in mixed waste or in fire.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

9. Warranty and rights arising from defective performance

9.1 Rights of the buyer under Czech law

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection. The manufacturer's warranty terms set out below (Chapter 9.2) **do not in any way limit** the buyer's rights arising from these regulations.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.

9.2 Manufacturer's warranty terms

※ The following text is the manufacturer's original warranty statement.

- If the product cannot be used normally after receipt, please contact after-sales service or return it for repair in time. If the product is found to be defective, the manufacturer will provide free repair or replacement.
- If the product is damaged due to improper operation, repair service can be provided after inspection, provided that it can be repaired.