ROTORAMA

HDZero BoxPro+

FPV goggle for HDZero, analog and HDMI
User manual



Read this manual carefully before first use. Never use a 6S HV (LiHV) battery.

www.rotorama.com

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1. Safety instructions

Please take the time to read through this operating manual thoroughly before using the goggle and keep it for future reference. If you pass the goggle on to another person, include this manual.

▶ Power

- Power the goggle only within **7–25.2V (2S–6S)**. To prevent voltage spikes entering the goggle, plug in a 6S battery **only if the power switch is off**.
- **DO NOT use a 6S HV lipo** to power on the goggle, it will permanently damage the goggle. The maximum is 6S at 4.2V/cell (25.2V).
- Make sure the power polarity is correct before powering on the goggle – **center pin positive (+)**.
- Never leave a Li-Po battery unattended while charging, protect it from mechanical damage, high temperature and moisture. Do not use a damaged or swollen battery.

▶ Operation

- **Do not expose the goggle optics to direct sunlight** – the lenses can focus the light onto the display and damage it.
- The lens is made of plastic rather than glass. Only clean it with a soft micro fiber cloth or wipes designed for cleaning glasses.
- Protect the goggle from water, dust, drops and extreme temperatures. Do not cover the vents or the fan.
- When flying with goggles (FPV) you cannot see your surroundings. Always fly with an **observer** who keeps the drone in direct sight, and follow the drone regulations of the country where you fly.
- The frequencies and output power of the video transmitters you use must comply with the regulations of the country of operation. The user is responsible for the settings.
- The goggle is not a toy. Keep it out of the reach of children.
- Do not open the goggle except to replace the clock battery (chapter 4.14). The user assumes full responsibility for any damage incurred while opening the goggle.

2. Introduction

2.1 Product description

The HDZero BoxPro+ is an all-in-one FPV box style goggle for digital (HDZero), analog and HDMI video. The goggle runs Linux and all code for the user interface is open source.

Compared with the basic BoxPro, the **BoxPro+** additionally includes the built-in **WiFi module** for video streaming and the **ESP32 module with ExpressLRS Backpack**. In the manufacturer's original manual these features are marked as optional; on the BoxPro+ they are standard (chapter 5).

2.2 Features

- Power on/off sliding switch – be confident that the goggle is on or off at a glance or by feel.
- 100Hz 1800 nits LCD display.
- Supports diopter lens inserts.
- By integrating the entire goggle display pipeline with HDZero's fixed-latency video transmission, the goggle achieves 4ms glass-to-glass sub-frame latency with no jitter or dropped frames.
- Integrated two 7dBi patch 5.8GHz antennas; included two 2dBi linear 5.8GHz SMA antennas.
- Adjustable speed fan cools the internals and prevents screen fogging.
- Integrated HDZero receiver with 4 antennas, supporting all HDZero modes.
- Integrated analog receiver that shares an antenna with the HDZero receiver.
- HDMI input with 1ms latency, supporting resolutions up to 1080p60 and 720p100; HDMI output.
- Built-in microphone for DVR; 3.5mm combination headphone / microphone jack for audio and external mic.
- 3.5mm analog video/audio input for use with ground station inputs.
- 3.5mm head tracker output using 6-axis smart inertial measurement to enable pan+tilt support.
- Integrated 2D deinterlacer that adds no delay for analog input.
- Built-in H.265 DVR for HDZero, analog and HDMI input.
- **BoxPro+:** built-in ESP32 (ExpressLRS Backpack) and built-in 2.4GHz WiFi video streaming module for live streaming.

2.3 Specification

Parameter	Value
HDMI input to goggle glass latency	1ms
Analog camera glass to goggle glass latency	3ms
HDZero camera glass to goggle glass latency	4ms
Display	LCD, 100Hz, 1800 nits
Field of view (FOV)	56°
Input voltage	7–25.2V (2S–6S)
Typical power consumption	14.5W (with HDZero RF on) 10W (with analog RF on)
HDMI input	HDMI 1.4b, mini HDMI, up to 1080p60 / 720p100
HDMI output	HDMI 1.3a, mini HDMI
Antennas	2× integrated patch 7dBi (5.8GHz) 2× linear 2dBi, SMA (5.8GHz)
HDZero channels	R1–R8, E1, F1, F2, F4; Low Band L1–L8
Radio modules (BoxPro+)	WiFi 2.4GHz; ESP32 – ExpressLRS Backpack
Real time clock	CR1220 battery (pre-installed)
Weight	348g
Dimensions	166 × 114 × 92mm

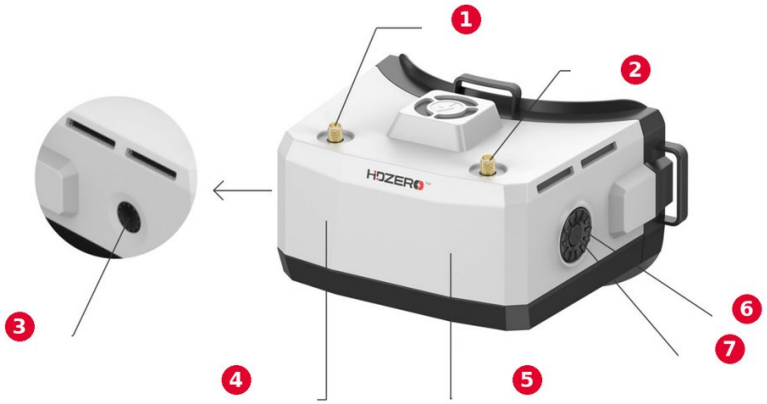
2.4 Included accessories

- 1× HDZero BoxPro+ goggle
- 2× linear 5.8GHz antenna (SMA)
- 1× foam face pad
- 1× goggle strap with battery pocket
- 1× 1200mm XT60 cable
- 1× thick canvas goggle bag with sleeve to stow the antennas
- 1× lens cloth

Not included: battery, SD card, diopter lens insert, AV input cable and head tracker cable.

3. Setup

3.1 Goggle overview



Main parts of the goggle

No.	Part	No.	Part
①	Right SMA	⑤	Left patch antenna (built-in)
②	Left SMA – for HDZero and analog	⑥	Dial pad
③	Func button	⑦	Enter button
④	Right patch antenna (built-in)		

3.2 Power switch

There is a sliding power switch on the right side of the goggle. You may use it to turn the goggle on/off, or just leave it on and plug/unplug the DC barrel plug to turn the goggle on and off.

In order to prevent voltage spikes entering the goggle, it is mandatory to plug in a 6S (max 4.2V/cell) battery only if the power switch is off.

3.3 Power input / consumption

The goggle supports 7–25.2V power input. Please make sure the power polarity is correct (**center pin positive**) before powering on the goggle.

DO NOT use a 6S HV lipo to power on the goggle, it will permanently damage the goggle.

Mode	Power consumption
HDZero digital	1.2A @ 12V
Analog RF	0.8A @ 12V
HDMI in	0.7A @ 12V

The goggle contains a self-resetting fuse to protect against reverse polarity. If the fuse is tripped, allow some time for the fuse to reset. Always install batteries in correct polarity; if you use a battery case with a battery checker, check it beforehand – if the checker lights don't turn on, the batteries are installed backwards and the goggle's fuse will trip to protect the goggle.

3.4 XT60 cable

The goggle includes a 1200mm XT60 cable for connecting a battery in your pocket. The XT60 cable has no voltage regulator – it passes the battery voltage directly through to the goggle.

- Do not connect a battery over 6S to the goggle, as the maximum voltage rating of the goggle is 6S (4.2V/cell).
- Some types of XT60 cable, i.e. the HDZero VRX cable, have integrated DC regulators. Make sure that such a cable is able to output enough current as indicated in the table in chapter 3.3 – otherwise the goggle won't boot or keeps rebooting.

3.5 Optics lens and diopter lens insert

The goggle optics include a lens that focuses the image and ensures a clear, immersive view for the pilot. The lens is made of plastic rather than glass – to prevent scratches, only clean it with a soft micro fiber cloth or wipes designed for cleaning glasses.

The goggle has no built-in optical adjustment. However, users can customize a diopter lens insert at the HDZero shop according to their prescription. The goggle is wide enough to be worn with eyeglasses. The diopter lens insert is not included and needs to be purchased separately.

3.6 Head strap

The goggle includes a 30mm wide head strap with battery pocket. Once you have configured the face plate and padding foam for your preferred face fit, put on the head strap and adjust the tightness to your preference.

3.7 HDMI input

The goggle includes a single port HDMI 1.4b receiver through a mini HDMI port. The incoming HDMI video is routed to the LCD display with less than 1ms latency. The current firmware supports resolutions up to 1080p60 and 720p100 for HDMI input.

Please note that most HDMI connectivity issues are due to either incorrect monitor settings or a faulty HDMI cable. If you encounter issues using the HDMI input, try connecting with alternative HDMI sources and alternative cables to rule out these common causes.

3.8 HDMI output

The goggle includes a high-performance single channel HDMI transmitter that is fully compliant with HDMI 1.3a through a mini HDMI port. The HDMI output displays exactly the same content as what appears on the goggle display.

Input source	HDMI output format
HDZero 60fps camera	1280 × 720, 60fps
HDZero 90fps camera	1280 × 720, 90fps
NTSC	1280 × 720, 59.97fps
PAL	1280 × 720, 50fps
HDMI in	not supported

3.9 3.5mm jacks

The goggle has three 3.5mm jacks. The AV input cable and the head tracker cable are not included; they are available on the HDZero shop and other online stores.

- **AV input** – analog video and audio input, e.g. from a ground station.
- **Head tracker (HT) output** – 6-axis smart inertial measurement unit for head tracking (pan+tilt), PPM signal output.
- **Line In / Line Out** – CTIA standard jack for microphone and headphones.

Contact (from tip)	AV input	HT output	Line In/Out
Tip	audio L	HT PPM output	audio L
Ring 1	audio R	—	audio R
Ring 2	video	—	ground
Sleeve	ground	ground	microphone

Pinout according to the manufacturer's drawings (the HT output is a two-pole jack).

3.10 Open source

The goggle is open source. You can find the SoC firmware on the manufacturer's GitHub: github.com/hd-zero.

4. Operation

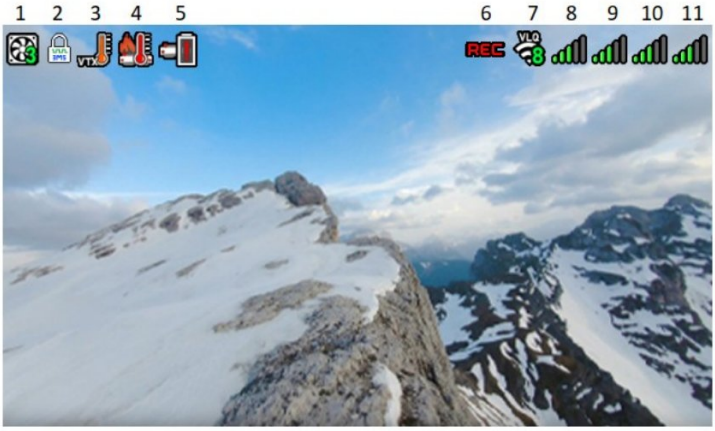
4.1 Controls

The goggle is operated with the *Dial Pad* with the *Enter* button in its center and the *Func* button (chapter 3.1).

Control	Action	Function in Video view
Enter	single click	show / hide goggle OSD
	press and hold	switch to Menu view
Dial	dial up / down	change channel, click to confirm
Func	single click	start / stop DVR
	press and hold	change fan speed

4.2 Video view and Menu view

The goggle has two views: **Video view** (the image from the drone with OSD) and **Menu view**. Press and hold the Enter button to switch between them.



Video view with goggle OSD

No.	Goggle OSD element	No.	Goggle OSD element
1	goggle fan speed	7	video link quality indicator
2	goggle latency lock indicator	8	left SMA antenna signal strength
3	VTX temperature indicator	9	left patch antenna signal strength
4	goggle overheat alarm	10	right patch antenna signal strength
5	goggle power low voltage alarm	11	right SMA antenna signal strength
6	recording state		



Menu view

In the menu, turn the dial to move between items and click to confirm.

4.3 Video source

The goggle can display video from any of 4 sources:

- built-in HDZero digital receiver,
- built-in analog receiver,
- AV in,
- HDMI in.

4.4 HDZero digital receiver

The *Scan Now* option on the main menu will scan the following channels for an HDZero video signal:

- R1–R8, E1, F1, F2 and F4 channels, or
- L1–L8 if Low Band is selected.

Scan Now will then:

- lock on to the channel if there is only one valid channel with a signal,
- let you choose between the channels if it has found two or more channels,
- continue to scan after 5 seconds if no signal is detected,
- wait for a long press of the Enter button to exit to the main menu.

To enable Low Band, set *Source* → *HDZero Band* = *Lowband*. Center frequencies of L1–L8:

Channel	L1	L2	L3	L4	L5	L6	L7	L8
MHz	5362	5399	5436	5473	5510	5547	5584	5621

※ HDZero provides the lowest and fixed latency when used with the HDZero Nano 90 camera, which supports 540p60 mode exclusively. With 540p60 set *Source* →

HDZero BW = Narrow. All other modes need *Source → HDZero BW = Wide*.

4.5 Analog receiver

The goggle takes analog video input from either the AV input jack or the built-in analog RF receiver (left top antenna). It uses a novel approach to process the analog input, resulting in improved analog video quality:

- a video decoder with an adaptive comb filter separates Y/C from the composite video,
- a deinterlacer converts fields to frames, instead of doubling the interlaced lines,
- an upscaler scales the video for recording and display.

Processing stage	Format
Composite video → video decoder	720 × 240, 60 fields per second
De-interlacer	720 × 480, 60 frames per second
Upscaler → display and DVR	1280 × 720, 60 frames per second

4.6 Auto Scan

The goggle has options to let it boot to the desired mode after power on:

- **HDZero:** *Main Menu → Auto Scan → Auto Scan = ON | Last, Default = HDZero*
- **Analog:** *Main Menu → Auto Scan → Default = Analog*
- **Last time:** *Main Menu → Auto Scan → Default = Last*

4.7 Fan management

There is one fan on the top of the goggle. It cools the internals and prevents screen fogging. The fan speed can be set to a 1–5 level, corresponding from minimum to maximum speed. Control modes:

- **Automatic mode** – the goggle firmware automatically speeds the fan up/down,
- **Manual mode** – you set the speed manually.

Regardless of the current mode, the fan will go to maximum speed if the temperature sensor reports a reading that is too hot. You can also change the fan speed in Video view by pressing and holding the Func button and monitor the change on the goggle OSD.

4.8 Image settings

The goggle has an image processor to fine tune video before feeding it to the DVR and display. It includes *Brightness*, *Saturation*, *Contrast* and *LCD Brightness*.

※ *Brightness* refers to the image brightness processed by the video processor, while *LCD Brightness* pertains to the backlight of the LCD display.

4.9 LCD Auto Off

If the goggle detects no movement or no key input for the programmed time (1/3/5/7 minutes), it will dim the LCD display as an alarm, and wait for another minute before turning off both the display and the HDZero digital receiver with a short beep. The display and receiver resume normal operation if the goggle detects movement or any key input. This feature can be disabled by setting the waiting time to “Never”.

It is highly recommended to use this feature or *Go Sleep* from the main menu to turn off the LCD while not using the goggle.

4.10 DVR

The goggle integrates a DVR for the HDZero digital receiver, analog input (RF or AV in) and HDMI input, recording to an SD card. DVR options:

- **Automatic record** – the DVR starts recording when it detects a valid HDZero RF signal on the current channel, and stops when the signal is no longer detected.
- **Manual record** – the DVR starts/stops only if the Func button is clicked.
- **MP4 or TS format** – MP4 is better supported by many video editing applications, but MP4 files can be corrupted if the goggle loses power before the file is closed (battery runs out, power cord unplugged). The TS format saves the stream instantly without any risk of corrupted files, even if the goggle suddenly loses power.
- **H.264 / H.265** – 90fps video is recorded in H.264 (1280 × 720, 90fps), all other cases use H.265.
- **Audio** – you can choose to record audio or not. Sources: built-in microphone, Line in (external microphone) or AV in.

The file system on the SD card can be corrupted by a sudden power off while the goggle is writing data – the goggle runs Linux and has no backup capacitor. The DVR will not work if the SD file system is corrupted.

How to avoid powering off while recording:

- **Auto record mode:** after landing, either press and hold Enter to switch to Menu view and then power off the goggle, or power off the quad first, wait 10 seconds and then power off the goggle.
- **Manual record mode:** click the Func button to stop the DVR before powering off the goggle.
- Select “Scan and Fix” if Windows or Mac reports a problem when the SD card is inserted.

Input source	Recording resolution	Encoder
HDZero 60fps camera	1280 × 720, 60fps	H.265
HDZero 90fps camera	1280 × 720, 90fps	H.264

Input source	Recording resolution	Encoder
NTSC	1280 × 720, 59.97fps	H.265
PAL	1280 × 720, 50fps	H.265
HDMI in	1280 × 720 (50, 60, 90fps) 1920 × 1080 (50, 60fps)	H.264

▶ **DVR for HDMI in**

- Recording starts automatically.
- Recording restarts when the HDMI in resolution changes and when the recording time reaches 10 minutes.
- Recording stops when the HDMI in source is lost, when SD card storage is less than 100MB or when the SD card is ejected.

※ When the source is set to HDMI in, there is no goggle OSD (recording icon, battery status, etc.).

4.11 Playback

- The player lists the most recent recording first. Dial up/down to select a file and click to play it.
- On the controller bar, dial up/down to seek (5 seconds forward/backward) and click to play/pause.
- Press and hold Enter to exit the controller bar, and press and hold Enter again to exit the player.

※ The player ignores files that are less than 5MB.

4.12 OSD

The goggle supports OSD from the flight controller (FC OSD) and OSD of its own status (goggle OSD). In the *Record Options* sub-menu you may select whether both OSDs are recorded with the video stream.

The goggle OSD can be shown/hidden by clicking the Enter button in Video view. The positions of goggle OSD items can be changed at *OSD → Adjust OSD Elements*.

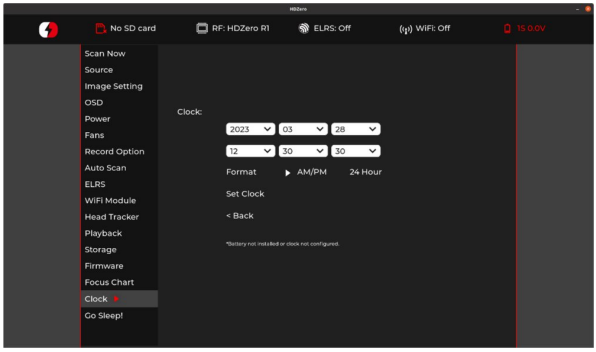
The goggle has built-in OSD fonts for Betaflight, Arduino and iNav and automatically loads the corresponding font according to the type of flight controller connected to the HDZero video transmitter (VTX). You can customize the FC OSD by putting bitmap files under *resource/OSD/FC* in the SD card root directory.

4.13 Tune channel

By dialing up/down in Video view, the channel of the HDZero receiver can be tuned. This can be disabled by putting a file named *no_dial.txt* in the SD card root directory before booting up.

4.14 Real time clock (RTC)

The goggle is equipped with a real time clock. For initial setup, set the date and time on the *Clock* page and use the *Set Clock* function – it sets both the system clock and the hardware clock. Otherwise, the goggle boots up with the date and time last set with *Set Clock*.



Clock page

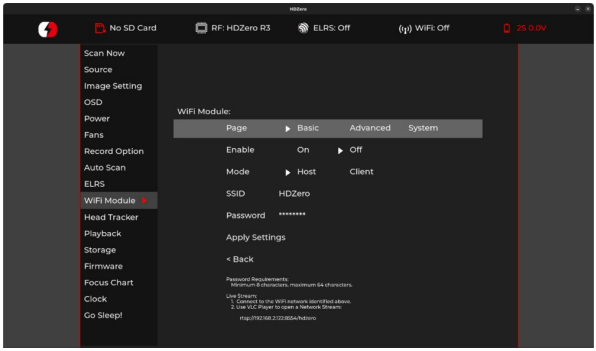
The pre-installed battery may eventually die and can be replaced with an aftermarket **CR1220** battery. After replacing the battery, use *Set Clock* to set the correct time and date.

The user assumes full responsibility for any damage incurred while opening the goggle to install a replacement battery.

5. WiFi module and ExpressLRS Backpack

5.1 WiFi video streaming

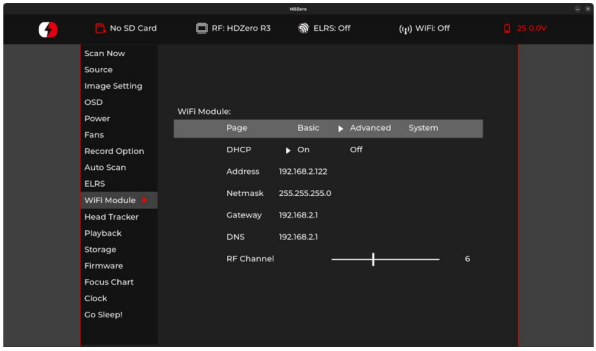
The BoxPro+ supports WiFi video streaming to a smartphone, tablet, desktop or laptop. Multiple devices can connect to the goggle and receive the video simultaneously. The WiFi module is configured on the *WiFi Module* page; the goggle can work as a **Host** (access point) or a **Client** (join network).



WiFi Module – Basic page

▶ Basic page

- *Enable* – powers the WiFi module on or off.
- *Mode* – Host (access point) or Client (join network).
- *SSID* – network name, set individually for Host and Client mode.
- *Password* – network password, set individually for Host and Client mode; minimum 8 characters.
- *Apply Settings* – stores the modified settings and configures the WiFi module.



WiFi Module – Advanced page

▶ Advanced page

- *DHCP* – Client mode only. The specified address is requested from the router; if it is not in use it will be used, otherwise the router assigns another one.
- *Address* – network IP address (Host and Client).
- *Netmask* – network subnet mask (Host and Client).
- *Gateway* – network gateway IP address (Host and Client).
- *DNS* – DNS server IP address.
- *RF Channel* – Host mode only; selects the radio channel the WiFi communicates on.

▶ System page

- *Root PW* – updates the root password for SSH and SCP communication.
- *SSH* – enables/disables SSH access; disabled by default as a security precaution.

After modifying the Advanced or System page, return to the Basic page and select Apply Settings – only then are the settings applied.

▶ Connecting to the stream

① The *Basic* page contains the necessary information: in Host mode, join the goggle network using the SSID and Password fields; in Client mode, refer to your wireless access point user manual.

② Install the VLC app or another app that supports RTSP on your device.

③ In the app choose *Open Network Stream* and type the RTSP URL shown in the footnote of the Basic page. Default address (no changes on the Advanced page): **rtsp://192.168.2.122:8554/hdzero**

※ Video latency is expected due to networking protocols, the buffering scheme of the app and the OS platform. Always fly using the image in the goggle.

5.2 ExpressLRS Backpack (ESP32)

The built-in ESP32 with ExpressLRS Backpack firmware communicates wirelessly with the Backpack in the radio's transmitter module and achieves:

- setting the channel number of the built-in HDZero or analog receiver depending on the source input,
- wireless head tracking,
- start/stop of the DVR using a radio switch.

▶ Update the Backpack firmware

① Create a folder named **ELRS** in the root directory of the SD card.

② In ExpressLRS Configurator switch to the *Backpack* menu.

③ Select the same release version as the radio backpack.

④ Select the target *HDZero Goggles → Built-in ESP32 Backpack*.

⑤ Set the same binding phrase as the radio backpack, otherwise the backpack needs to be bound manually.

⑥ Build the firmware. A folder with the files *boot_app0.bin*, *bootloader.bin*, *firmware.bin* and *partitions.bin* pops up – copy them to the ELRS folder on the SD card.

⑦ Insert the SD card into the goggle and flash the Backpack firmware at *Firmware → Update ESP32*.

▶ Bind the goggle and the radio

Flash the ELRS TX of your radio to the same version as the goggle Backpack firmware (see the official ExpressLRS TX Backpack setup guide). If the binding phrase of the goggle is different from the radio, it is necessary to bind manually for first use:

① Goggle: *ELRS → Backpack = On*

② Goggle: *ELRS → Bind*

③ Radio: *ExpressLRS Lua → Bind*

After a few seconds, the goggle will display success if the binding is complete.

▶ Start/stop DVR using a radio switch

① Goggle: *Record Option → Record Mode = Manual*

② Radio: *ExpressLRS Lua → Backpack → DVR Rec = AUXn↑ | AUXn↓*, where *n* is the aux channel number of the switch.

5.3 Further guides

ExpressLRS documentation – setup of the transmitter module, Backpack and Lua script:
www.expresslrs.org

HDZero documentation: docs.hd-zero.com

6. Goggle firmware update

Download the latest firmware *HDZEROBOXPRO_Revyyyymmdd.zip* from the HDZero download site (www.hd-zero.com/document) and unzip it.

Firmware file	Usage
HDZERO_BOXPRO-*.bin	flash firmware from the menu
Recovery/HDZB_OS.bin Recovery/HDZBOX_RX.bin Recovery/HDZBOX_VA.bin	emergency recovery

The goggle can be bricked in some rare cases – then follow the emergency firmware update process. Otherwise, follow the normal firmware update process.

6.1 Normal firmware update

① Disconnect all cables from the goggle. Keep the power cable only.

② Copy *HDZERO_BOXPRO-*.bin* to the root directory of an SD card formatted as FAT32, and make sure there is no previous firmware in the root directory.

③ Power on the goggle.

④ Go to *Main Menu* → *Firmware* → *Update Goggle*; the display will show the current version.

⑤ Wait for completion (about 3 minutes), then power off.

6.2 Emergency firmware update

① Disconnect all cables from the goggle. Keep the power cable only.

② Extract *HDZB_OS.bin*, *HDZBOX_RX.bin* and *HDZBOX_VA.bin* from the Recovery folder, copy them to the root directory of a FAT32 formatted SD card and insert the SD card into the goggle.

③ Power on the goggle, wait for 5 minutes, then power off.

※ *HDZB_OS.bin*, *HDZBOX_RX.bin* and *HDZBOX_VA.bin* will be removed from the SD card if the update is successful.

Do not switch off or disconnect the goggle during the update.

7. Troubleshooting, maintenance and support

7.1 Troubleshooting

Problem	Possible cause and solution
The goggle does not power on	Check the switch, battery voltage (7–25.2V) and polarity. After reverse polarity allow the self-resetting fuse to reset.
The goggle won't boot or keeps rebooting	A cable with an integrated DC regulator does not deliver enough current – use the included XT60 cable.
No image from HDMI input	Check the monitor/source settings and try an alternative HDMI cable and source.
No HDZero image	Run *Scan Now*; check the band (Low Band) and the bandwidth (*HDZero BW* Narrow/Wide) according to the camera.
DVR does not record	The SD card file system may be corrupted – fix the card on a computer or format it as FAT32.
Corrupted MP4 file	The goggle lost power while recording. Use the TS format or stop recording before power off.
Recording missing in player	The player ignores files that are less than 5MB.
The dial does not change channel	The file *no_dial.txt* is on the SD card – remove it.
Wrong recording date	Set the clock with *Set Clock*; replace the CR1220 battery if necessary.

7.2 Maintenance

- Clean the lenses only with a soft micro fiber cloth or wipes for glasses; do not use solvents.
- Keep the foam pad clean and dry; store the goggle in the included bag.

7.3 Technical support

Support should be attempted in the following manner:

① Read this manual first.

② HDZero community: Facebook facebook.com/groups/hdzero, Discord discord.gg/VSkXzkKPHt.

③ Manufacturer technical support: Divimath, Inc. (HDZero brand), www.hd-zero.com, support@divimath.com.

④ Warranty claims and purchase questions: Rotorama, info@rotorama.cz (chapter 8.1).

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 (HDZero BoxPro+) and the serial number are given on the product or its packaging; the firmware version is shown in the goggle menu *Firmware*.

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 CR1220 coin cell battery for the real time clock. Where possible, hand it over together with the device – do not dispose of the battery in mixed waste or 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.

The HDZero BoxPro+ can be exchanged for a new unit within 7 days for any manufacturing defects if returned in new condition. The optic module is warrantied for repair for 12 months, and all other components for 2 years, if there are no signs of excessive use. The buyer is responsible for shipping costs. Beyond the warranty period, the manufacturer provides repair services for a cost. For assistance with manufacturer warranty issues, please contact support@divimath.com.