

**HDZERO™  
Divimath  
FPV  
Monitor**



## HDZERO Divimath FPV Monitor User Manual

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**HDZERO Divimath FPV Monitor**



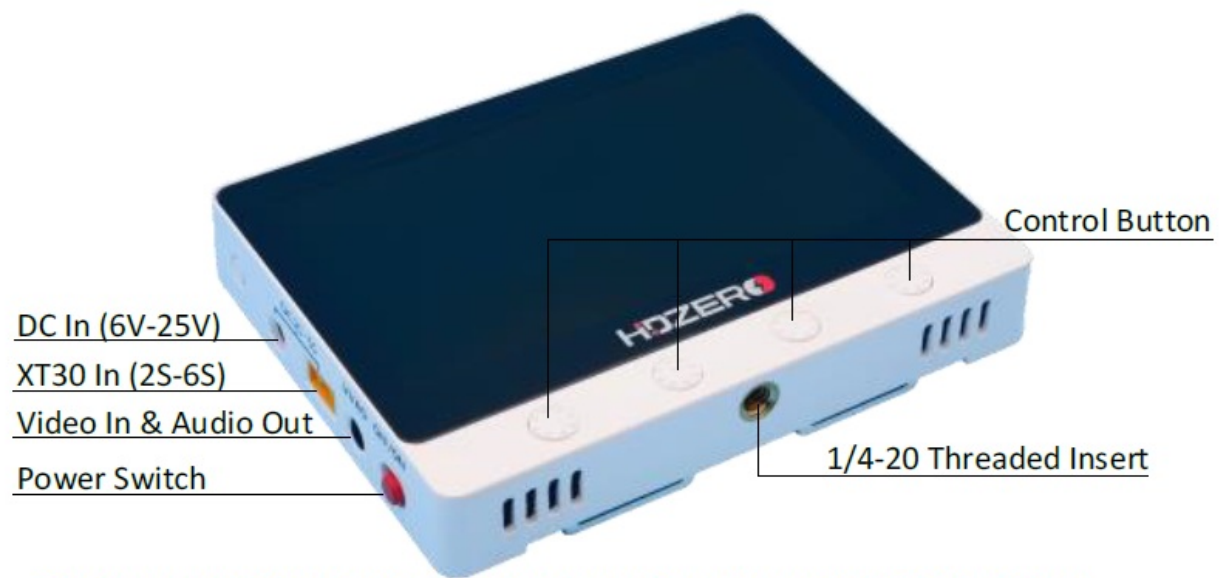
## FAQs

- **Q: How do I change the Band and Channel on the HDZero Monitor?**
  - **A:** To change the Band or Channel, follow the instructions provided in the user manual. Band and Channel settings need to be configured manually.

## Introduction

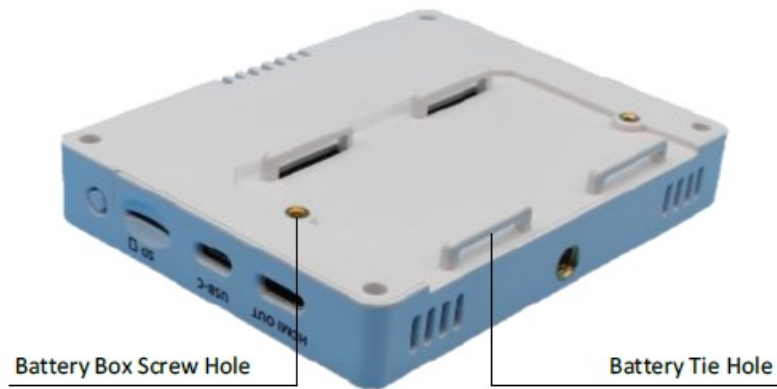
- Experience seamless viewing of HDZero and Analog video feeds with the HDZero Monitor. Similar to the HDZero Event VRX that is widely used for major racing events, this monitor effortlessly detects the transmission type and displays the appropriate feed instantly.
- With instant power-on functionality and compatibility with a wide range of flight batteries (2s-6s voltage), you can dive into your FPV adventures without delay. The high-brightness anti-glare 800-nit screen ensures clear visibility even in outdoor settings.
- Share your FPV experience effortlessly with HDMI output and built-in DVR capabilities. Analog video is upscaled to 720p and de-interlaced for superior quality on both HDMI output and DVR recordings.
- Whether you're a seasoned FPV enthusiast in need of a reliable field monitor or a budget-conscious beginner, the HDZero Monitor is your perfect companion, delivering just what you need, quickly and easily.

## Diagram



\*When HDZero Monitor is connected to HDZero Programmer APP, Button will be disabled.





\*The product does not include the battery in the box. You can obtain 3D CAD files and print it through the open source community.



## Features

- Instant boot-up – just flip the red slide switch similar to HDZero Goggle
- HDZero/Analog auto-switching (like Event VRX)
- Shared antennas for HDZero and Analog
- 4.3-inch high-brightness (800 nits) 720p LCD with anti-glare screen protector
- Deinterlaced/Up-scaled analog video with adaptive comb filter
- HDMI output for both HDZero and Analog
- Built-in DVR for HDZero and Analog including deinterlaced/up-scaled analog video
- Open-source CAD files, including additional battery case and sun-shield to 3D print your own
- Open-source software so you can customize the monitor to fit your needs
- Supports CVBS input and Audio line output
- Type-C USB port for parameter adjustment and firmware updates
- 2S-6S XT30 or DC with recoverable fuse and polarity protection
- Tripod mount with the 1/4-20 threaded insert on the bottom

## Specification

- **Input Voltage:** 6-26V
- **Power consumption:** 9.0W
- **Weight:** 155g
- **Dimension:** 114x88x18mm

## Included Accessories

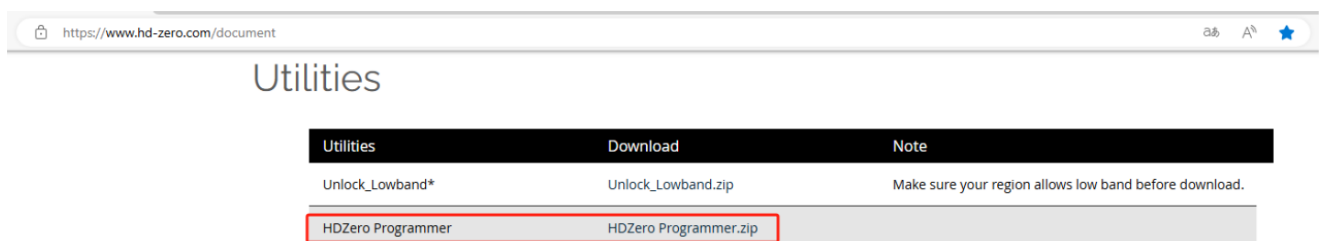
- 1x HDZero Monitor
- 2x Lipo Strap
- 1x Anti-glare screen protector

## Power

- HDZero Monitor provides two different power supply interfaces: DC(5.5mm\*2.1mm) and XT30. And built-in polarity protection.
- The voltage range input is 2S-6S(6-25V). Power consumption is approximately 9.0 watts when receiving HDZero video and recording.
- HDZero Monitor will automatically identify cell counts based on voltage when powered on, and will alarm when the cell voltage is lower than 2.8v(flashing OSD voltage display).
- You can also manually set cell counts and warning cell voltage in the HDZero Programmer App.

## Firmware Update

- Before updating the firmware, make sure you have downloaded the latest HDZero programmer.
- You can download it from the website <https://www.hd-zero.com/document>.



- Open HDZeroProgrammer.exe and switch to the Monitor Tab.
- Click Load Online Firmware and select the latest version, Then Click Flash Monitor.
- Power on the HDZero monitor and connect it to the PC through a USB cable with a type-c interface.
- The firmware will be downloaded and updated automatically. Do not disconnect the monitor power supply or USB cable before the update is completed.
- Re-power the hdzero monitor after the update is completed.

## Band & Channel

HDZero Monitor does not have a scanning function, you need to set Band & Channel manually. Band and channel are set separately, which means you can switch to the channel you want faster. For HDZero, the following

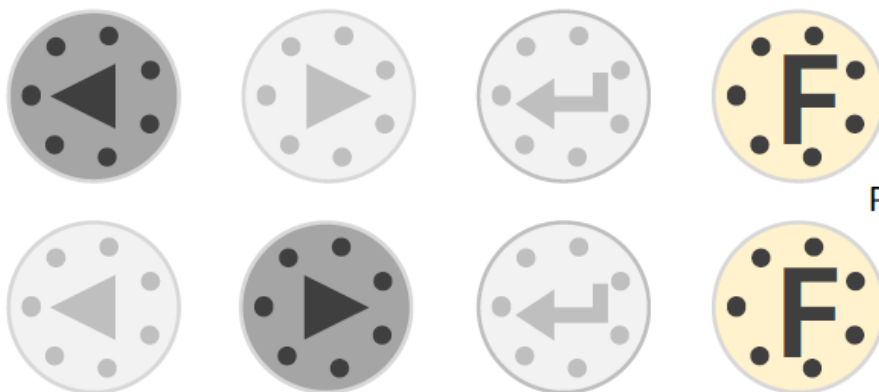
channels are supported:

- E1
- F1, F2, F4
- R1 – R8
- L1 – L8

**For Analog, the following channels are supported:**

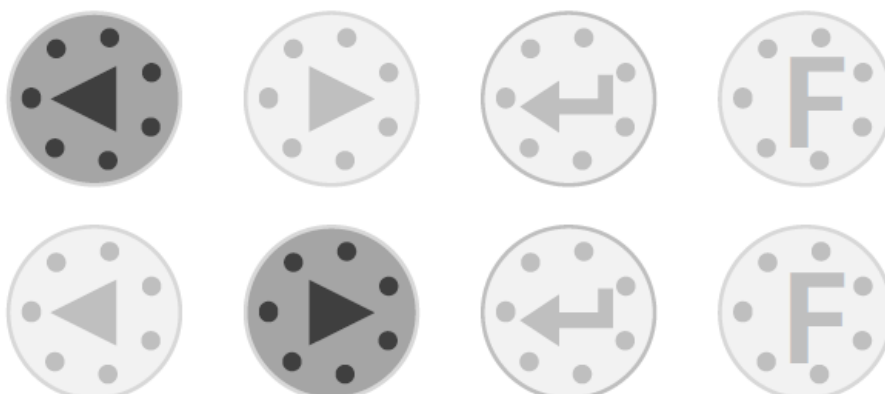
- A1 – A8
- B1 – B8
- E1 – E8
- F1 – F8
- R1 – R8
- L1 – L8

**To Change Band**



Press & hold

**To Change Channel**



## Sources

HDZero Monitor supports two signal sources: RF In and Line In.

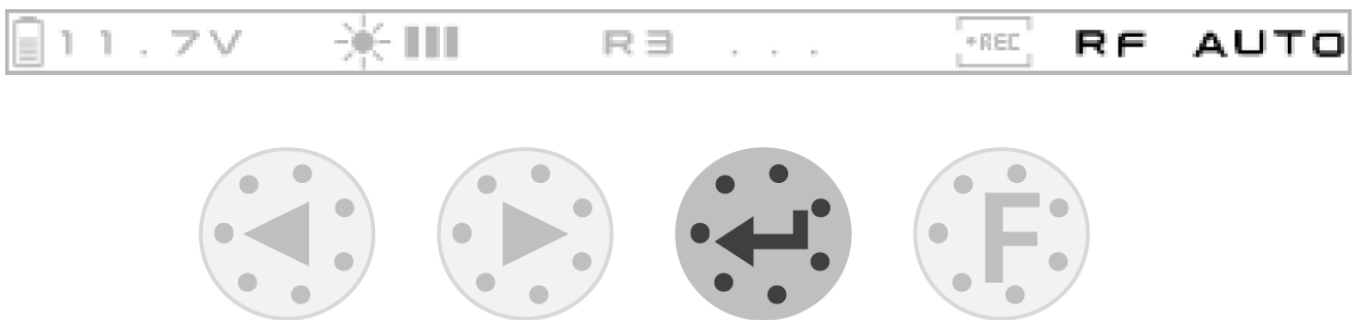
### For RF In:

- HDZero Monitor will automatically switch between RF Analog and RF HDZero until the RF signal is locked.
- When the RF analog signal is locked, NTSC/PAL will be automatically detected.
- When the RF analog signal is locked, the VI/AO interface will output the audio from Analog RF.

### For Line In:

- When the line in the signal is locked, NTSC/PAL will be automatically detected.

## To Change Source

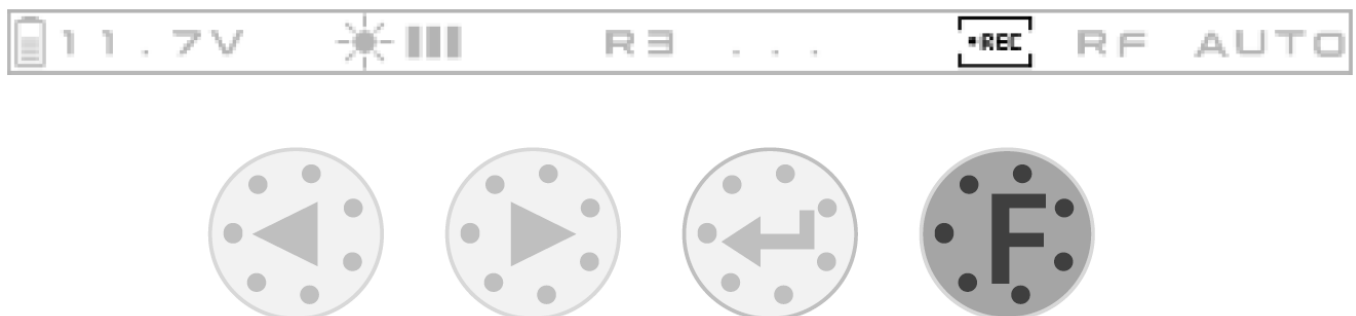


## Recording

Insert the SD card into the slot before recording the video. The recommended SD card specifications are as follows:

- 8GB-32GB
- FAT32, unit size is 4096 Bytes
- After the SD card is correctly recognized, the SD card OSD located in the upper right corner of the screen will be hidden.
- When a valid signal is locked, the recording will start automatically. When the signal is lost, the recording will automatically stop.
- You can also manually control the start and stop of recording at any time by the button.

## To Start/Stop Record



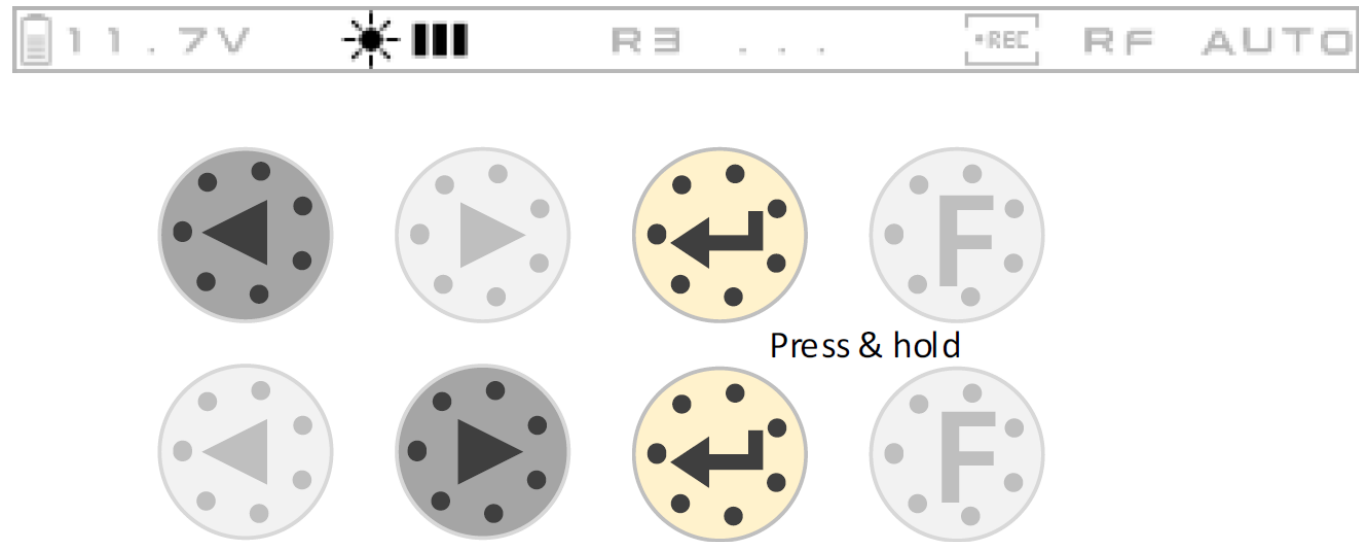
## Image settings

The following image settings can be set via the HDZero Programmer App:

- Brightness
- Contrast
- Saturation
- Backlight

The backlight also supports quick adjustments using Buttons.

**To Change Backlight**



**OSD**

- You can enable/disable the FC OSD display. You need to set it up via the HDZero Programmer App.

**CAD Model**

- You can download the CAD file from <https://github.com/hd-zero/hdzero-tooling>, You can print the battery box or sunshield nased on the 3D model.

Revision	Date	Description
1.0	May 23, 2024	Initial draft
1.1	May 30, 2024	
1.2	Jul. 31, 2024	Corrected DC interface specifications

For more product information, please visit: [www.hd-zero.com](http://www.hd-zero.com) All Rights Reserved.

**Documents / Resources**





## HDZERO Divimath FPV Monitor [pdf] User Manual

Divimath FPV Monitor, FPV Monitor, Monitor

## References

- [Digital FPV with HDZero Technology | Near zero latency | VTX VRX](#)
- [Digital FPV with HDZero Technology | Near zero latency | VTX VRX](#)
- [GitHub - hd-zero/hdzero-tooling](#)
- [User Manual](#)

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