

# HDZero EventVRX



## What is HDZero?

### **PUSH YOUR SKILLS TO THE LIMIT**

HDZero offers industry-leading low latency, giving you more time to react and the best possible chance of hitting that next gap. With its smooth, consistent FPV video feed, you'll experience the same locked-in feeling you get with analog video—but with the clarity of HD.

### **MAKE IT AN EVENT**

HDZero supports the standard 5.8ghz video channels, meaning you can have up to 8 simultaneous pilots flying either full-quality HDZero or analog video. When you're ready to take a break and spectate, you can tune in to any channel and view the pilot's feed with no loss of quality, giving you the same feeling of being in the air yourself.

### **UPGRADE YOUR FLEET**

From 1S whoops to long-range wings, HDZero offers a variety of VTX and camera options to suit every build. You may even be able to use the gear you already have—the HDZero receiver will work with any FPV goggle with an HDMI input. HDZero can grow with your needs and fit perfectly into your preferred FPV craft.

### **RAPIDLY EVOLVING SYSTEM**

HDZero is rapidly evolving. Please always use the latest firmware that is located at [www.hd-zero.com/document](http://www.hd-zero.com/document).

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## Features

- Effortless HDZero and analog auto-switching receiver for racing events
- 4 channels per box, each of which can receive either an HDZero or analog signal
- 4x HDMI and 4x CVBS (composite analog) outputs so you can connect to HDMI capture cards or to legacy analog DVR recorders
- Both digital and analog signals are output on HDMI and CVBS – system chooses video source based on signal
- 2x SMA antenna jacks that are shared between all 4 channels, so you only need 2 antennas for 4 channels of video
- Rugged steel enclosure that is designed for mounting to a tower
- 2D De-interlacer improves analog video quality on HDMI output
- OLED configuration screen for channel and setting changes
- 30W power draw, 8-20V DC input
- AC to DC Power supply included
- Firmware updates via USB and included Windows PC software

## Introduction

Designed in collaboration with racing pilots and MultiGP event coordinators, the HDZero Event VRX makes it seamless to integrate HDZero into race DVR and live stream setups.

The Event VRX automatically switches between analog and HDZero video based on received video signal. This means separate software is not needed to switch the recorded video between the two and no special setup is needed ahead of time.

The Event VRX outputs both HDZero and analog video on HDMI and CVBS outputs. This means you can use existing legacy analog video capture equipment such as an Owl DVR box or analog capture card, keeping cost and complexity to a minimum.

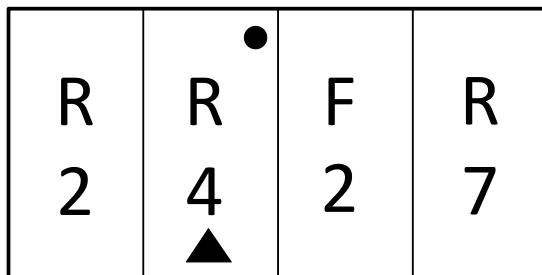
The Event VRX packs four 2-antenna HDZero receivers into one enclosure, which reduces cost and simplifies setup. The 2-antenna HDZero receivers have less noise rejection than full goggle VRX's with 4 antennas, but still have excellent video reception for outdoor race events. 8 analog receivers are included, setup in a diversity arrangement (2 analog receivers per channel).

## Operation

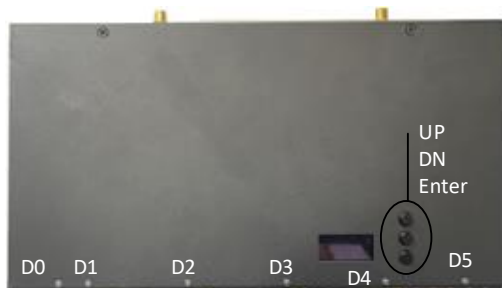
### Boot



**Work** (Display auto off within 60 seconds)



1. "UP/DN" key Selects between Channels (R1~R8, F2,F4)
2. Short Press "Enter" moves tri-angle cursor
3. Black dot means "HDZero only"
3. Long Press "Enter" toggles Black dot.



D0: ON when it is connected to a PC with USB cable

D1-D4:

OFF: No HDZero/Analog detected

ON: HDZero locked

BLINK: Analog locked

D5: Power LED

## Firmware Update Guide

### Prerequisites

- Windows PC
- .NET Framework 3.5

### Directories

- Document
- Driver
- Firmware
- Software

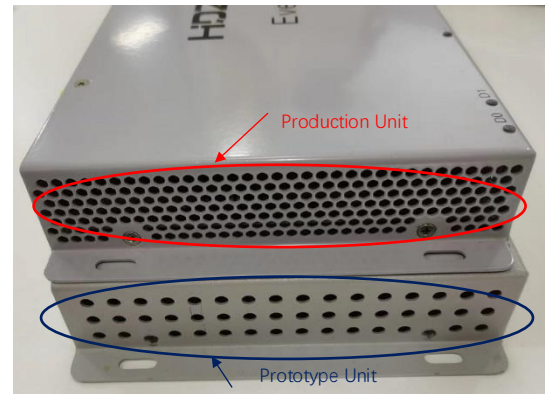


FIG: How to identify: Production or Prototype

### Install Driver

Run driver/Install.bat

### Flash Firmware (For Production units)

1. Connect EventVRX to PC with an USB cable. D0 LED on EventVRX will be lit.
2. Power on EventVRX (**Very important!**)
3. Double click Software/HDZero ProgrammerVx.y.exe (*x,y denotes FW version*)
4. Click "Browse", Select /Firmware/EventVRX.bin
5. Click "Update", and wait for completion
6. Power off EventVRX, and unplug USB cable.

### Flash Firmware (For the Prototype units)

1. Power on EventVRX (**Very important!**)
2. Connect EventVRX to PC with an USB cable. D0 LED on EventVRX will be lit.
3. Double click Software/HDZero ProgrammerVx.y.exe (*x,y denotes FW version*)
4. Click "Browse", Select /Firmware/EventVRX.bin
5. Click "Update", and wait for completion
6. Power off EventVRX, and unplug USB cable.

