EV300D

RC VISION SYSTEM Faster and clearer display  PPI:4102  1280*960

5.8G MODE  RSSI Signal  Auto search  racer-8
Dual True Diversity  5.3~6.0Ghz  Four Antenna
HDMI IN  PC\Xbox\STB  CEC Control  DSP audio algorithm
Vision  Focal length  IPD  Astigmatic lens
AV IN / AV out
Aspect Ratio
Update Firmware
Wide Voltage Input  Power button  18650 BAT Case
USB power supply
Built-in DVR  H.264, 30fps  Record/Playback
Diagram

DISPLAY

Super high PPI makes image quality clear and delicate

1280*960  FOV 42°  PPI:4102  Pixel:6.3um
Japan Citizen Panel  Low latency display
5.8G MODE

OSD Display

RSSI Signal
Indicates RSSI signal for left and right RX modules. L stands for left, R stands for right (the RX modules are printed with L or R stickers). There are two antenna plugs on the RX modules of left and right side. Each of the sides have blue and red LED, used to distinguish 1# and 2# antennas. Green bars stand for antenna signal strength. Red X indicates no antenna signal inputs. If using a third party RX module, the RSSI function will not be available.

Defogging Fan Icon
If it appears on the display in green color, indicating defogging fans is activated. Otherwise, it is deactivated.

REC Icon
Entering REC mode, if REC icon appears on the display in green color, indicating recording function standby. REC turns red indicates recording in progress. REC icon disappears when exit REC mode.

TF Card Icon
Entering REC mode, if TF card icon appears on the display in green color, indicating TF card available. Otherwise, TF card unavailable.

Battery Capacity Icon
Battery capacity icon appears on the upper right of the display in green color, indicating 5-level battery capacity 100%/75%/50%/25%/0%.

Band-A CH1 5865MHz   Band, Channel, Frequency

Band & Frequency table (5.8GHz 72CH) Unit: MHZ

<table>
<thead>
<tr>
<th>Band</th>
<th>CH1</th>
<th>CH2</th>
<th>CH3</th>
<th>CH4</th>
<th>CH5</th>
<th>CH6</th>
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<td>5893</td>
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</tbody>
</table>

AUTO SEARCH

racer MODE   Exclusive channels don't interfere with each other and compete more attentively

Racing mode: | Mode   | Status description |
-------------|-------------------|
             | RACER4            |
             | RACER4-1          |
             | RACER6            |
             | RACER6-2          |
             | RACER8            |
             | RACER8-8          |

Racing mode frequency (Unit: MHZ)
4 pilots 5695 5769 5843 5917
6 pilots 5533 5613 5705 5785 5865 5945
8 pilots 5528 5582 5645 5705 5765 5825 5885 5945
Dual True Diversity

Dual True diversity RX modules

Frequency : 5.3~6.0 GHZ  
Receiver Sensitivity : \( \leq -93 \text{dB} \)

SMA : RP-SMA Female  
Size : 43.7*30.5*10.7mm

goggles Supports Open Source RX Modules.

Compatible with Fatshark OLED RX modules

When using two diversity receivers, you should not use third-party (Include EV200D) diversity receiver and EV300D diversity receiver together.

A third party rx module is able to work with EV300D, but it is not controllable via the goggles.

hdmI IN

Connecting 1080P device

HDMI support CEC control

After entering the HDMI display, the device (support CEC control) that connected to goggles will be controllable via DVR 5-way button.

HIGHDEFITION MULTIMEDIA PORT
1080P resolution downward compatibility
1080P(50hz,60hz)  1680*1050  1600*1024  1600*900
1400*900  1366*768  1360*768  1280*1024  1280*960
1280*800  1280*768  720P(50hz,60hz)  1184*864  1176*664
1024*768  800*600

DSP image audio algorithm
Four display modes: Standard / Soft / Vivid / User(Adjustable)
Four Color Temperature Adjustment Modes : Cool / Warm / Medium / User(Adjustable)

DSP noise processing algorithm
Sound Modes : Standard / Music / Movie / Sports / User(Adjustable)

Surround sound

VISION

Focal length adjustment
Under 800 degree of myopia and Hyperopia 300 degree. Adjust the diopter to a suitable condition by turning the knob clockwise or counterclockwise.

Corresponding relationship between knob scale and diopter
IPD adjustment

Independent control for both sides, adjust the range of 56 ~ 72mm, wide-range IPD, suits more pilots. Move the slider to adjust IPD. (+) means to increase IPD, (-) means to decrease IPD.

Eyeglass Frames

Using fitted eyeglasses, Astigmatism / Myopia / Hyperopia

(Diopter lens not include)

AV IN / AV out

3.5mm AV connector  av input  av output

Support external hdmi to av input

Support external DVR

Aspect Ratio

Selectable Aspect Ratio providing different viewing experience.

PICTURE Aspect Ratio  Auto  16:9  4:3  zoom1  zoom2

Just Scan (only HDMI)  panorama (Default display)

Point To Point (only HDMI)

Update Firmware
Continuously optimize operating system and recording parameters through firmware update
Update Firmware  TF card  U disk  Easy to operate
Wide Voltage Input

POWER BUTTON
Support power bank 5==2.4A input voltage.
Support DC7.4V~30V input voltage.
Reverse Voltage Protect

18650 BATTERY CASE
18650 BATTERY CASE WITH INTEGRATED USB CHARGER
Follow the instructions to install 18650 battery cells in battery case.
If inserted 18650 battery cells are in reversed polarity, the battery case and the goggles will not be damaged due to hardware protection. To allow the goggles work normally, please insert the battery cells correctly.

Built-in DVR
H.264 Encoded Video

Video Format:  Auto toggles between NTSC or PAL
DVR Recording file resolution: NTSC at 720*480 or PAL at 720*576
Integrated analog mode DVR
TF card max 64G.

Video file container: AVI

High-quality Video encoding with H.264, 30fps

Storage speed $\geq$ 10 (Class 10) high speed TF card recommended

Diagram

18650 BATTERY CASE

Mode /Menu /Volume Turn on/off OSD Control

Channel/Band Selection

Power on/off turn on/off defog fan

DVR Menu HDMI CEC Control

Cooling fan

3.5mm Headphone jack

Micro USB

DC Port

MiniHDMI Port

3.5mm AV Port

Defog Fan

IPD/Focal length adjustment

TF slot

Eyeglass Frames (Diopter lens not include)

Product Specifications

Frequency: 5.8GHZ
Frequency range: 5333—5945 M Hz

Receiver Sensitivity: \( \leq -93 \text{DB} \)

Antenna impedance: 50\( \Omega \)

Audio and video: AV in/out

Video format: NTSC/PAL

Brightness: Adjustable

Contrast: Adjustable

Pupil Distance adjusting: 56-72mm

Focal length adjusting: Under 800 degree of myopia and Hyperopia 300 degrees

Eyeglass frames: astigmatism/ myopia/hyperopia (Diopter lens not include)

Power input: 7.4V

Minimum voltage: 6.8V

Operating temperature: -9°C ~ 39°C

Package Included

1 X EV300D goggles
1 X Zipper case
1 X 18650 battery case
1 X Sponge
2 X EVA pad
2 X Eyeglass frames
2 X Third party module cover
2 X FPV receiver (optional)
1 X Lens wiping cloth
1 X User Manual