

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

Band	CH1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8
Band-A	5865	5845	5825	5805	5785	5765	5745	5725
Band-b	5733	5752	5771	5790	5809	5828	5847	5866
Band-E	5705	5685	5665	5645	5885	5905	5925	5945
Band-F	5740	5760	5780	5800	5820	5840	5860	5880
Band-r	5658	5695	5732	5769	5806	5843	5880	5917
Band-U	5325	5348	5366	5384	5402	5420	5438	5456
Band-o	5474	5492	5510	5528	5546	5564	5582	5600
Band-L	5333	5373	5413	5453	5493	5533	5573	5613
Band-H	5653	5693	5733	5773	5813	5853	5893	5933

AUTO SEARCH

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

Racing mode:

Mode	Status description
RACER-4	RACER-4-1
RACER-6	RACER-6-2
RACER-8	RACER-8-8

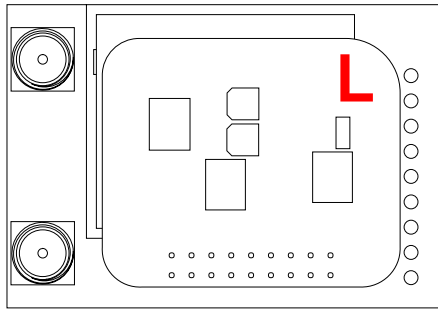
Racing mode frequency(Unit:MHZ)

4 pilots 5695 5769 5843 5917

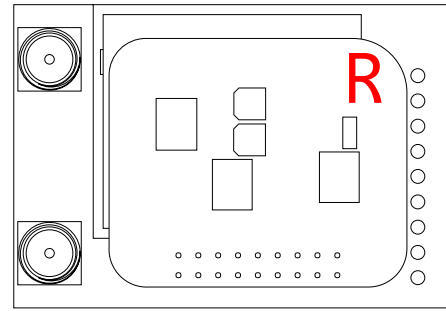
6 pilots 5533 5613 5705 5785 5865 5945

8 pilots 5528 5582 5645 5705 5765 5825 5885 5945

Dual True Diversity



Left RX module



Right RX module

Dual True diversity RX modules

Frequency : 5.3~6.0 GHZ Receiver Sensitivity : \leq -93dB

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 knobclockwise or counterclockwise.

Corresponding relationship between knob scale and diopt

scale	0	-1	-2	-3	-4	-5
Diopter	0	myopia 100	myopia 200	myopia 300	myopia 400	myopia 500
scale	-6	-7	-8	+1	+2	+3
Diopter	myopia 600	myopia 700	myopia 800	hyperopia 100	hyperopia 200	hyperopia 300

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 5V=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: 50Ω

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: $-9^{\circ}\text{C} \sim 39^{\circ}\text{C}$

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