

Goggle 3

User Manual V1.0

4th-NOV-2015



1.0 Specifications

Optics:

FOV (field of view): 32 degrees diagonal
Glass optics (binocular 8p direct view optical engine)

Interpupillary (IPD) distance: 58 to 68 mm (adjustable)

Audio: Stereo

User Controls: Display control/HT control/Channel&Band control/
Mode control/DVR control

Electrical:

Power supply: LiPo Battery 3.7V

Display:

800 X 600 (SVGA) LCD
LED backlight
NTCS/PAL auto selecting

Head Tracker: Modular

DVR:

Micro SD/support to 32Gb
Record rate: 6Mbps
MJPG compression, 30 fps, AVI
File playback (only native codec support)

Interface:

Micro USB port
3.5mm 3p earphone port
Micro SD
Micro HDMI (720p 50/60 Hz)

Size: 178x130x54mm(LxWxH)

Built-in battery: 3.7V 2000mAh LiPo

Working time: Over 120 minutes

Weight: 180g

Working environment: 0°C-45°C

Storage environment: -20°C-70°C

2.0 Safely tips

In order to reduce the risk of fire, electric shock or product damage, please don't let the product drenched, damped or affected by water, also do not put items filled with liquid on the product such as vase.

Please avoid falling or colliding this product, don't let the product violently shaken, otherwise may lead damage to the product or abnormal display.

Please don't use the player in a special cold, hot, dusty and humid environment. In the following places, please take extra attentions, in order not to cause the video glasses to malfunction.

(1) A place with lots of sand or dust.





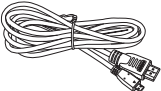
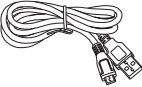
(2) A place that near the water, such as in the rainy day or in the beach.

Please wipe with dedicated lens paper when you find dust or dirt on the lens.

In order to avoid any damage of grating and any injury, please do not put the glasses into trouser pocket when u sit down and please do not put them into an overstuffed package.

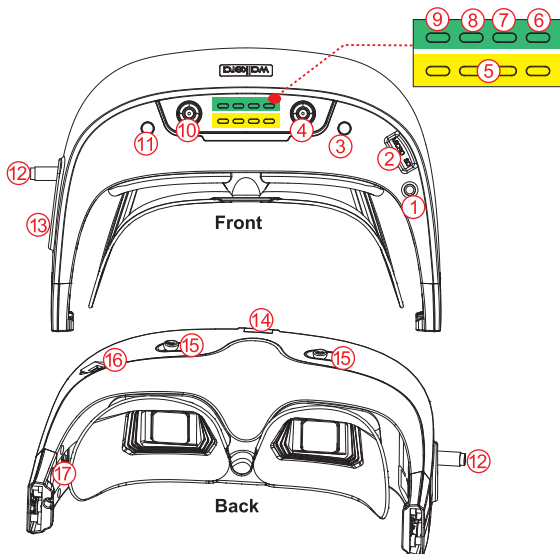
We suggest taking off the glasses and having a rest every 50 minutes if you need to watch the videos for a long time. Please stop using this product if you have pain in your eyes or if you are not feeling well. For users who have eye or body discomfort, please consult relevant medical institutions to get advice.

3.0 Spare parts












<p>Goggle3 glasses</p> 	<p>5.8G Mushroom antenna</p> 	<p>5.8G Antenna</p> 
<p>Training cable</p> 	<p>HDMI cable</p> 	<p>USB cable</p> 

4.0 Illustration

- Goggle3 is 5.8G video glasses for aerial photography.
- Support AV 2D、 AV 3D、 HDMI 2D、 HDMI 3D mode.
- Support Digital Video Record (DVR), HDMI input Head Tracking (HT).



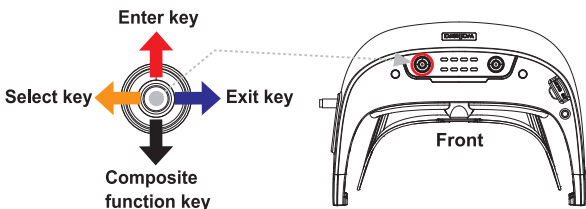
- | | |
|--|--|
| 1. Earphone jack | 10. The head tracking / digital video recording (DVR) control keys |
| 2. Micro SD card slot | 11. Channel selection / receiver module switch key |
| 3. The power switch button | 12. SMA Antenna |
| 4. Mode Select / brightness / contrast adjustment keys | 13. Receiver module indication |
| 5. Battery electric quantity indication | 14. Power indication |
| 6. DVR indication | 15. IPD adjustment key |
| 7. HT indication | 16. HDMI port |
| 8. Image transmission indication | 17. USB port |
| 9. Head tracking indication | |

S/N	Name	Control instruction
③	Power switch	 Long-Press three seconds to turn on or turn off the power, power on indication stable light or off
④	Mode Select Brightness / Contrast adjustment keys	 Mode Selection: Press 1 second, the mode has AV 2D, AV 3D, HDMI 2D, HDMI 3D.
		 Brightness adjustment: Turn forward/backward to increase / decrease the brightness.
		 Contrast adjustment: Turn left and right to increase / decrease the contrast.
⑩	The head tracking / digital video recording control keys	 Press 1 second head tracking initialization, HT indication flash.
		 After starting the DVR function, pull forward as enter key
		 Pull backward as composite function keys (For more details please see chapter 5)
		 After starting the DVR function, pull left as select key
		 After starting the DVR function, pull right as exit key
⑪	Channel selection / receiver module switch key	 Channel selecting: press for 1 second and coordinate AV 2D、 AV 3D mode to change the channel.
		 Receiver module switch: Long-press 3 seconds to turn on / turn off the receiver module, receiver module indication stable light or off .When playing video, please turn off the receiver module to Eliminate other video source.

5.0 Digital video recording (DVR) operating

Warm Tips:

- (1) Before using, Micro SD must be format to ensure keeping stable video.
- (2) Micro SD must be got in or got out on the condition of power off.



Start DVR

Long-press power key to turn on power, long press composite function keys to start DVR function, DVR indication stable light.

Recoding

After starting DVR function, short-press the composite function key to start recording(the top left corner will show "REC"), short-press it again to stop recording.

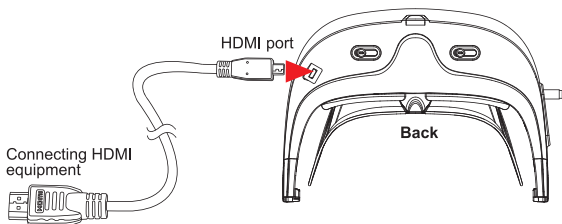
Playback

After starting DVR function, if it is not recording and you close the receiver module, press composite function key for 1 second to enter navigation menu:

- ① Playback: press Select key to choose Playback, press Enter key to enter Video document, press Select key to choose file number and press Enter key to replay.
During playback, press Select key to adjust playing speed and direction, press Enter key to pause and start, press Exit key to return to Main Menu.
- ② Format: press Select key to choose Format, press Enter key to see the dialog box, press Select key to choose Cancel or Execute and press Enter key to activate related operation, press Exit key to return to Main Menu.
- ③ Press Exit key to return the Menu from Main Menu.

6.0 HDMI input

HDMI port could be connected to HDMI equipment by HDMI cable. It would be better to connect HDMI equipment before power on. When equipment is switched, you should disconnect power to clear settings.




NOTE:

- (1) Most of HDMI connecting problems are caused by incorrect monitor setting or HDMI wiring fault. If there is error for HDMI, you should replace HDMI sources and HDMI wire.
- (2) Under HDMI 2D/3D mode, the receiver module will be turned off automatically in order to avoid conflicting signal being transmit to screen display.

HDMI equipment connecting settings as below:

Change appearance of display

Detection(C)
Recognize(I)

Display device(S): 1/2. Multiple monitors ▼

Resolution ratio(R): 1280 x720 ▼

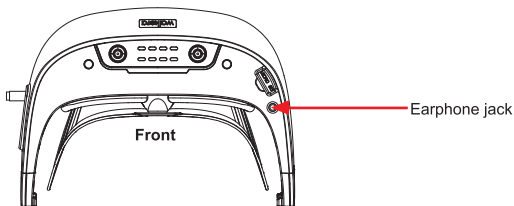
Direction(O): Crosswise ▼

Multiple display devices(M): Copy these displays ▼

It is your main display device.

7.0 Audio output

Please use the standard 3.5mm earphone, insert it into the earphone jack of the glasses, you will get the sound that wireless received by the glasses.



8.0 5.8G receiving channel frequency table

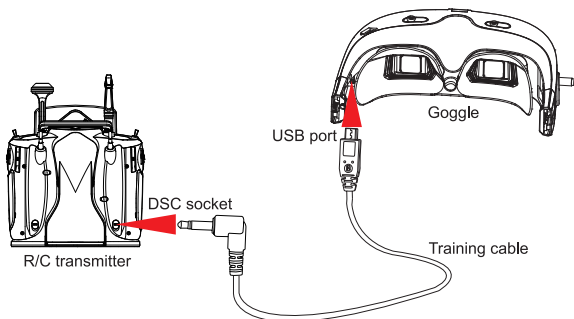
- (1) 32 different receiving channels, please choose high quality images channel.
- (2) Please shut off the DVR function when receiving the 5.8G video.

Channel and corresponding frequency table

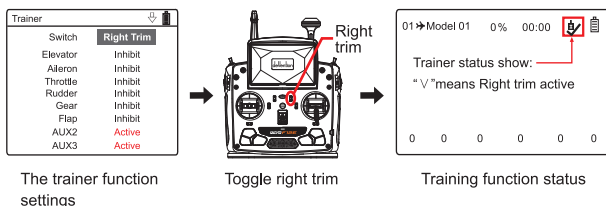
1	2	3	4	5	6	7
5866MHz	5847MHz	5828MHz	5809MHz	5790MHz	5771MHz	5752MHz
8	9	10	11	12	13	14
5733MHz	5725MHz	5745MHz	5765MHz	5785MHz	5805MHz	5825MHz
15	16	17	18	19	20	21
5845MHz	5865MHz	5945MHz	5925MHz	5905MHz	5885MHz	5645MHz
22	23	24	25	26	27	28
5665MHz	5685MHz	5705MHz	5945MHz	5925MHz	5905MHz	5885MHz
29	30	31	32			
5645MHz	5665MHz	5681MHz	5705MHz			

9.0 Head tracking(HT) function

- (1) The default channel of the Goggle3 is 7 and 8 channel, wire connector of the gimbal should be inserted to according to receiver channel. 7 and 8
- (2) Connecting the goggle and transmitter: first turn off the transmitter power, insert the training cable to the goggle USB port and the transmitter DSC socket. As follows:



- (3) Turn on the transmitter, then bind aircraft and videos can be received and displayed on transmitter monitor. Then change the training function channel 7 and 8 status to active, and then toggle the training switch (right trim) to active the training function(e.g DEVO F12E) .



- (4) Press vertically Head Tracking Key for 1 second, Move the goggles up and down, left and right to check whether these movements act as expected on gimbal and make sure the movements of goggles and camera are synchronized.

If the head tracking function not work, please follow below steps to set the travel and the adjustable parameter software:

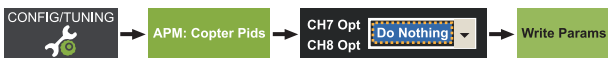
(1) Travel Adjust

You just need to set the Channel 7: AUX2, Channel 8: AUX3 and travel gain as $\pm 100\%$.



(2) Adjusting steps of the adjustable parameter software

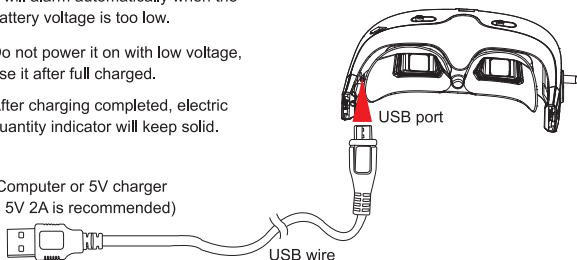
Connect the Main controller and computer by the USB cable, double click the file "Mission Planner. exe " to run the Mission planner adjustable parameter software.



10.0 Charging indication

- It will alarm automatically when the battery voltage is too low.
- Do not power it on with low voltage, use it after full charged.
- After charging completed, electric quantity indicator will keep solid.

Computer or 5V charger
(5V 2A is recommended)



NOTE:

During charging, please leave it on a dry and ventilated place, far away from hot, inflammables, explosion-prone objects.

11.0 Troubleshooting

11.1 No image on goggle display

- (1) Ensure the power of the glasses turn on.
- (2) Make sure the goggles receiving channel is the same as transmitter.
- (3) Make sure transmitter power plug is inserted well.
- (4) Make sure the camera plug is fully inserted into the transmitter socket.
- (5) Make sure the antennas of the goggles and transmitter are installed correctly.
- (6) Make sure the goggles operation mode selection is correct.

11.2 Head tracking system stops working

- (1) Make sure the gimbal wires are fully inserted into the corresponding R/C receiver channels.
- (2) Make sure the goggle and R/C transmitter has been connected.
- (3) Please check whether the training function be activated or not and make sure the Right trim at ON position.

11.3 Goggle image quality is poor or wireless transmitting range is short

- (1) Check if there are other transmitting devices working at the same frequency near you; please select other frequency to avoid interference or use your FPV system in another place.
- (2) Make sure the antennas of the goggles and transmitter are installed correctly.
- (3) Check if there are buildings, trees, hills/mountains or other obstacles between the goggles and transmitter; please only use the FPV system in wide open spaces.






User manual is subject to change without prior notice.
Please go to Walkera official website to get the latest version.

Please scan the following code, to get more information.



 Tel: 400-9318-878