Flysight®

FG01 Video Goggles has a immersive 16:9 WVGA display(FOV is 32 degrees), IPD is 58-68mm(adjustable),with HDMI Interface, support up to 720p,fully compatible with left and right format 3D images, and support NTSC/PAL auto selection, built-in DVR, set aside a detachable wireless receiver module interface, with fan cooling and lens anti-fog device.

Flysight Falcon Goggles
FG01
Modular FPV Headset with integrated DVR

Instruction manual

Falcon Goggles
FG01

Modular FPV Headset with integrated DVR

Features

Handle both digital and analog with ease

Support HDMI-in at 720P,100% compatible with Phantom3/4 and Inspire

A switch between 4:3 and 16:9 WVGA display(33°FOV diagonal)

A modular design allowing pilots to customize receive modules

Full Nextwave and Airwave VTX modules support

Record FPV footage with the integrated built in DVR

Auto-save any recorded video if the power is disconnected

DVR recording icon showed on screen by a small dot only

One button Operation on Contrast,brightness and switch between 4:3 and 16:9 WVGA display

More accurate Adjustable Interpupillary Distance by Gear

Comfortable Velcro detachable goggles sponge

Fan power on/off button for easy operation

2S-4S Input(7-18V)

Low battery Alarming

NTSC/PAL auto switching

Any key menu wake up function

With 18650 battery setup can get 150minute working time

Cool Design with Creative abstract pattern

Safety Notice

Warning

- Do not expose the FG01 to the rain or moisture, Sunlight will magnify through the optics and burn holes in the LCD color filter. This will NOT be covered by warranty.
- Do not expose the FG01 to rain or moisture.
- Please use only the recommended accessories.
- Do not disassemble the product. There are no user serviceable parts inside.

Caution

- Avoid magnetic fields - they may affect the performance of the device.
- Keep away from open fires.
- This device is not dust-proof or waterproof.

Package Contents

Falcon Goggles FG01 with White Faceplate

Zipper Carry Case

18650 Battery Case

Adapter Cable(DC F to XT60 M,10cm)

Adapter Cable(DC F to XT60 M,1.5m)
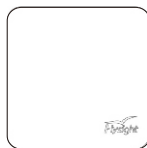

Charing Cable(DC M to XT60 F,10cm)

AV Cable

Head Strap

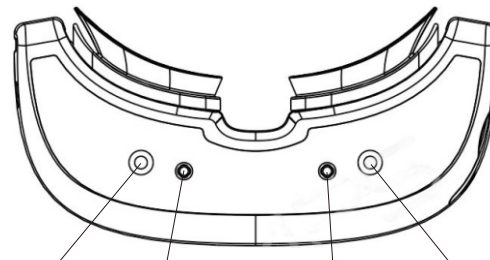**Velcro Eyecup Sponge(0.7cm)**

Velcro Eyecup Sponge(1cm)

Cleaning Cloth

Flysight
Flysight Falcon Goggles
FG01
5.8GHz FPV Diversity Goggles

Instruction manual

User Manual

Function Control Diagram
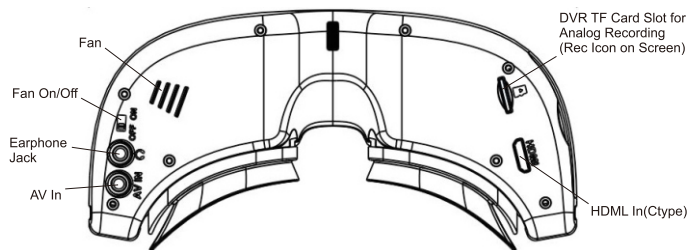

Volume level (Cycles from 1 to 10)

Muti-Mode Button
Brightness(Left/Right)
Contrast(Up/Down)
2D Or 3D Mode(Ventical)

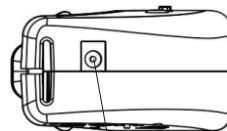DVR Control Button

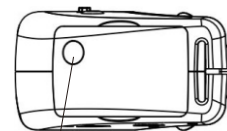Channel Selection (Cycles from 1 to 8)

Fan

Fan On/Off

Earphone Jack

AV In

DVR TF Card Slot for Analog Recording (Rec Icon on Screen)

HDML In(Ctype)

Power Supply Port(5.5×2. 1mm)

Detachable Module Accass Panel

Main Function Controls

Power On
● Insert external power supply, the buzzer will ring for 1 second, the goggles are powered on.

Channel Selection
● Press channel button to cycle channels from 1 to 8.

Low Battery Alarming
● When the battery capacity is less than 20%, the low voltage alarm function is activated.For example:audio warning if input voltage is below 6.8V for 2S battery.

Volume Control
● Press volume button to cycle volume level from 1 to 10.

DVR control
● Press DVR control button to operate DVR function at any analog modes.
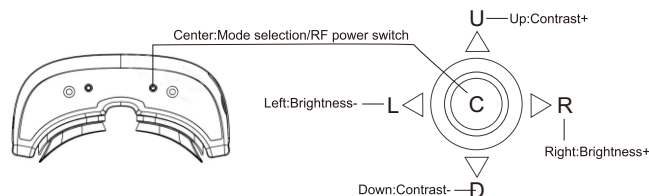
Brightness/contrast control
● Press left and right of multi- mode button to adjust brightness value;press up and down of this button to adjust contrast value.

Display mode selection
● Vertical press of the C of multi-mode button scrolls through the following modes: Analog 2D/3D/HDMI 2D/3D.Under each mode,you can get battery volume percentage on the screen.Also can get each current working mode power-off saving protection.

Multi-mode Button Digram

Center:Mode selection/RF power switch
U—Up:Contrast+
Left:Brightness- — L
C
R
Right:Brightness+
Down:Contrast- — D

Tap C to switch modes among RF2D AV2D AV3D HDMI2D HDMI3D (Note: when the status bar disappears, tap C once to show the status, and it will disappear automatically after 10 seconds without any operation).

Holding down C for 3 seconds and the buzzer rings once: Switch image between 16:9/4:3,only effective under RF2D and AV2D modes.

Holding down C for 5 seconds and the buzzer rings twice: Turn on/off RF Module power.
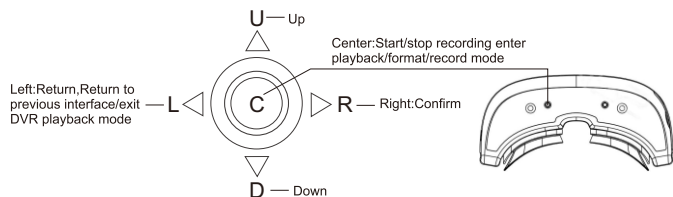
DVR Operation

Attention
● TF Card Must be formatted before use to ensure the stable recognizing and recording. when insert and take out the TF Card, must turn off the power to avoid damage on the CARD and Goggles. DVR is for analog recording only, no HD recording.

During the DVR Recording,the unit have the Power-off protection to prevent last recorded file loss.

DVR Control Butter Digram

U — Up

Center:Start/stop recording enter playback/format/record mode

Left:Return,Return to previous interface/exit DVR playback mode — L

C

R — Right:Confirm

D — Down

DVR Recording

● After powering on the goggles, tap C of DVR control button, start / stop recording; there is a blinking micro red dot on the upper right of the screen when recording is on.

Channel Selection

● Press channel button to cycle channels from 1 to 8.

Playback

● **Note:**You Must power off RF module and remove AV in sources(to not conflict with menu navigation OSD). Then Holding down C of DVR control button to enter playback mode.

Under the playback menu interface, press U/D to select the previous/next menu, then press R to confirm. Under the playback file selection interface, press U/D to select the previous/next file, then press R to confirm. When playback, press U/D to select the fast forward/backward speed, switch among 1X 2X 4X 8X;press R to pause/play.

Format

● Holding down C of DVR control button, you can see format mode, press U/D to form at,then press R to confirm.

HDMI In Mode

Via HDMI in port, the goggles can be connected to HDMI devices. After connecting well, then power on the goggles. Disconnect power supply when switching devices to clear the settings. The goggles switches to HD2D / 3D mode, the HDMI input can accept 720P/30fps signal. HDMI can input HD signal to get much clearer image.

Note: In HDMI 2D/3D mode, receiving module will be automatically closed to prevent signal conflict.

RF Mode

Please insert the available wireless receiver module into the interface of the goggles module as required, install the antenna, press the button to open the RF power supply, and select the corresponding channel to receive signals through the channel selection button.

AV IN Mode

Enjoy your external video and audio signal by connecting through the AV port. In AV IN mode, insert AV Cable to the AV IN interface, press C of multi-mode button to switch among 2D/AV 2D-4:3/AV 3D.

Earphone Jack

Standard 3.5*3 size, output audio at AV 2D,AV 2D-4:3 AV 3D, HDMI modes.

Display	FOV	33degrees(Diagonal)
	Resolution	0.32 inch LCD,854×480(WVGA)
	Luminance	350cd/㎡
	Interpupillary distance(IPD)	59—69mm(adjustable)F
	Mode	2D/3D
	Screen Color	Full color LCD binocular display, with LED backlight
Main Functions	Function Controls	Channel selection
		Volume control
		Mode selection
		16:9:/4:3 switch
		Brightness/contrast Control
		DVR Control
		Fan Control
Audio	Audio output level	Stereo,1.0Vp-p Type,10Kohm
Interface	AV IN(Φ3.5,4p)	Video,Stereo Audio input
	HDMI IN(C Type)	Support HDMI 1.3 Digital Input, Support HDMI Audio in Support resolution: 1280×720p
	RF	RF module bay
	DC In	5.0
	TF card	TF card insert slot
	EAR OUT(Φ3.5,3p)	Stereo 16Ω/150mW
DVR	Working way	Auto work after goggles powered on
	Memory	Support TF card to 64Gb
	Record rate	6Mbps (MJPG compression,30 fps,AVI)
	File playback	Native recording,no codec support
	Video input	Support CVBS,PAL/NTSC continous scan auto detect/mode change
	Other	auto save if power removed,support forward/backward/format
Power Supply	DC IN	7~18V/(2S/3S/4S supply)
	Consumption	﹤300mA @7.4V (HDMI 2D,RX off)
Other	RF module	optional
	Dimensions	170×50×45mm(not include prominent part)
	Net Weight	175g(with faceplate and head strap)
	Working Temperature	−10℃~+65℃

18650 Battery Case

Operation Instruction

Warning

- In order to reduce the risk of fire, electric shock or product damage, do not let the machine rain, exposure or moisture.
- Please use only recommended accessories.
- Do not disassemble the product. There are no user serviceable parts inside.

Safety Warning

- Do not install the machine with battery cell or put it in other enclosed spaces such as bookcases
- and closets to avoid the risk of electric shock or fire due to overheating.
- Do not allow the unit to be placed near a fire such as open fire.
- The machine is not dust proof, not waterproof, please note when using.
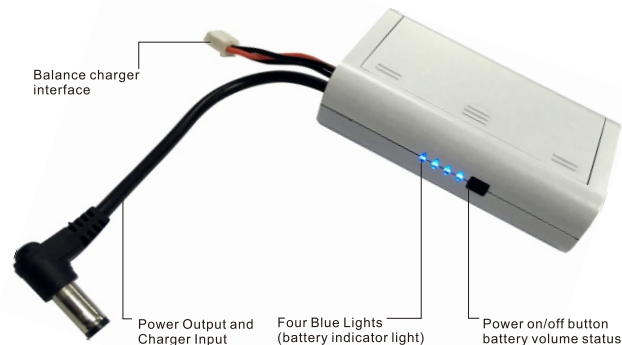- The product cannot charge and discharge at the same time.

18650 Battery Case

XT60 charging cable

Function diagram

Balance charger
interface

Power Output and
Charger Input

Four Blue Lights
(battery indicator light)

Power on/off button
battery volume status

Usage

• Charge

Tap the power on/off button of 18650 battery case once, but right away holding it down in the second time for about 3 Seconds.18650 battery case was turned on successfully when indicator lights are all on in turn. Set the balance charger to 2S Lithium Battery Charging Mode, insert the DC end of the above XT60 charging cable into the DC interface of the 18650 battery case , insert the XT60 end into the main charger interface of the balance charger, and then insert the balance charger interface of the 18650 battery case into the 2S balance charger interface, four battery indicator blue lights will flash in accordance with the power.

• Check the power

Tap the power on/off button of 18650 battery case, the battery indicator blue lights will flash for about 3 seconds then automatically be off (1 blue light flashing for about 25% of the electricity, 2 blue light flashing for about 50% of the power, 3 blue light flashing for about 75%, 4 blue light flashing for about 100% of the power)

• Discharge

Tap the power on/off button of 18650 battery case once, but right away holding it down in the second time for about 3 Seconds.18650 battery case was turned on successfully when indicator lights are all on in turn. When the four blue lights are off in turn (means the lack of electricity), please charge in time. When the last battery indicator blue light flashes with quick frequency then it will automatically shut down after 60 seconds.

• Shut down

Tap the power on/off button of 18650 battery case once, but right away holding it down in the second time for about 3 Seconds.18650 battery case was turned off successfully when indicator lights are all off in turn.

Specification

Input	Lithium battery 2S balance charger
Output	7-8.4V/2A
Built-in battery size	2×18650 battery
Size	85*53*23mm
Net weight	44g(w/18650 battery)
LED Lights	4pcs
Connectors	DC power in/out
	Balance charging in

http://www.flysight.com/

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