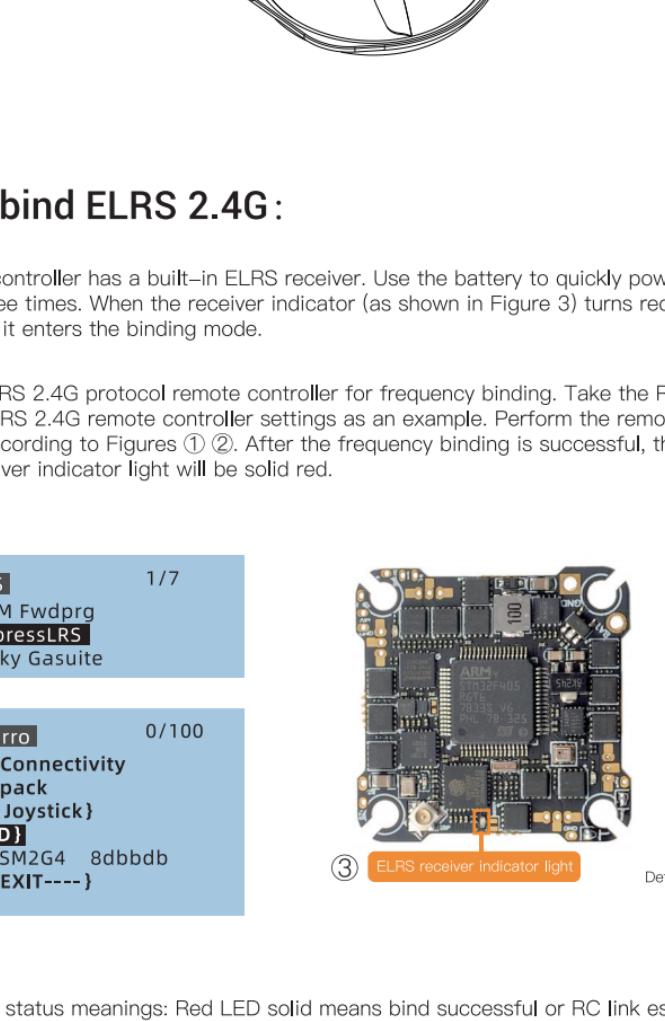


# GOFILM 20

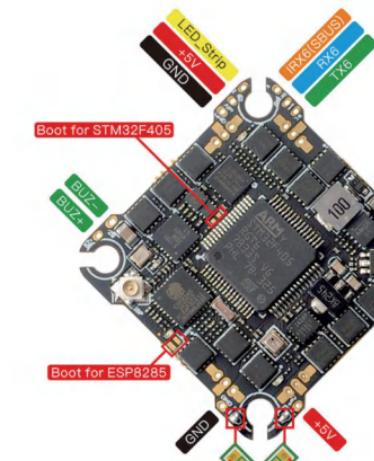
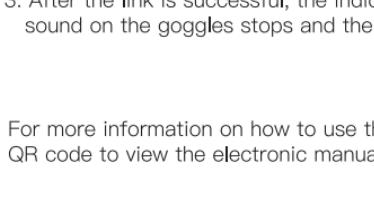
## QUICKSTART GUIDE

V1.2



### How to bind ELRS 2.4G:

1. The flight controller has a built-in ELRS receiver. Use the battery to quickly power up the Gofilm 20 three times. When the receiver indicator (as shown in Figure 3) turns red and flashes twice quickly, it enters the binding mode.
2. Use the ELRS 2.4G protocol remote controller for frequency binding. Take the Radiomaster ZORRO ELRS 2.4G remote controller settings as an example. Perform the remote controller settings according to Figures ① ②. After the frequency binding is successful, the flight control ELRS receiver indicator light will be solid red.



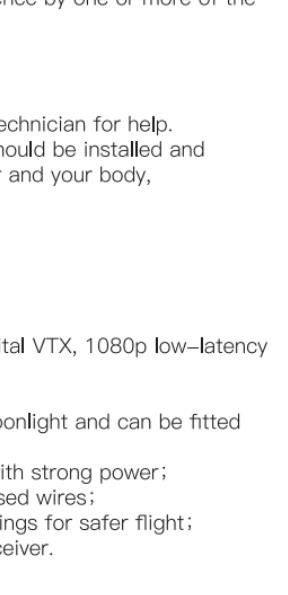
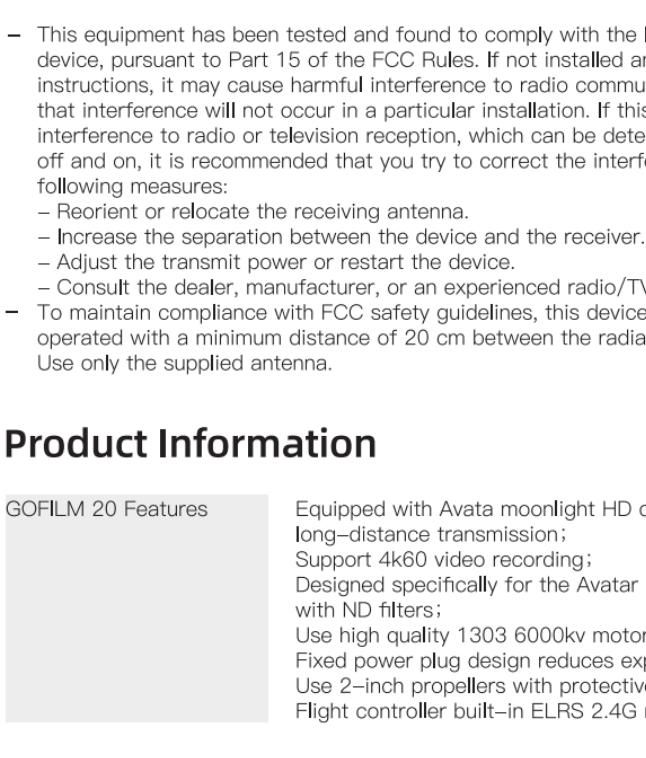
Default firmware version: ExpressLRS V3.0.1

### Note:

Receiver LED status meanings: Red LED solid means bind successful or RC link established; Red LED double-flash means get into bind mode; Red LED flash slowly means no RC signal input from TX module; Red LED continuous flash fast means ExpressLRS wifi enabled; Red LED tri-flash means model mismatch need to change model match from "off" to "on".

### ARM & Mode:

After the binding is successful, use FC to connect to the Betaflight, and enter the Modes tab. Try to toggle the corresponding switch for each function, You move the Yellow cursor of the corresponding aux channel of the switch, the corresponding function will be turned on when you move to the set range.



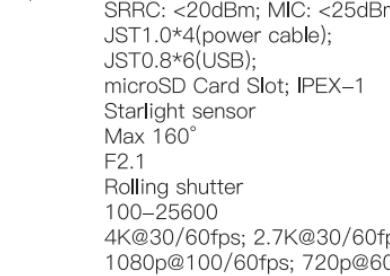
### How to bind VTX:

1. Connect the moonlight kit and the power of the goggles.
2. Short press the moonlight kit and goggles linking buttons respectively, when the moonlight kit enters the pairing state The VTX LED turns red, and the goggles end is a DI... DI... DI...
3. After the link is successful, the indicator light on the VTX LED turns solid green, the beeping sound on the goggles stops and the screen is displayed.

For more information on how to use the MOONLIGHT KIT, please scan the QR code to view the electronic manual.



### Flight control wiring:



### Pre-flight Check:

1. Turn on the transmitter and select the correct mode. Please confirm that the arming switch on the transmitter is in the "disarmed" position and the throttle is all the way down.

2. Check whether the propeller steering is correct, whether the rotation is smooth, and whether the screws are locked.

3. Check whether the battery power is sufficient. The 4S battery is fully charged at 16.8V.

4. Please confirm the battery is securely attached to the aircraft by the strap. And secure the balance head so that it can't be struck by the props.

5. Observe whether the take-off environment is safe, whether there are obstacles, and whether it is in a no-fly zone.

6. If you see another pilot feed, resolve this issue before flying. If you see interference or you see another pilot feed, resolve this issue before flying.

### CAUTION!

- This product is NOT a toy, thus it is not suited for children under 14 years of age.
- Minors should be accompanied by an adult when operating.
- Warnings listed in the instructions must be read carefully.
- Improper adjustments and operation will result in crashes and damage to the item.
- Experience is required before handling this product.

FCC Warning

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device should be used away from public areas and should not interfere with public wireless facilities or other wireless devices, (2) This device may receive radio interference, which may cause malfunction or damage to the device. It is necessary to stay away from the environment where radio interference occurs. Users of modified or cracked versions or unlicensed amateur bands may be subject to penalties for violating local laws or regulations.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, it is recommended that you try to correct the interference by one or more of the following measures:

- Relocate or relocate the receiving antenna.
- Increase the separation between the device and the receiver.
- Consult the dealer, manufacturer, or an experienced radio/TV technician for help.

- To maintain compliance with FCC safety guidelines, this device should be installed and used only with the supplied antenna.

For more information on how to use the MOONLIGHT KIT, please scan the QR code to view the electronic manual.



### Product Information

#### GOFILM 20 Features

Equipped with Avata moonlight HD digital VTX, 1080p low-latency long-distance transmission;

Support 4K60 video recording;

Designed specifically for the Avatar moonlight and can be fitted with ND filters;

Use high quality 1303 6000KV motor with strong power;

Flight controller built-in ELRS 2.4G receiver.

#### GOFILM 20 Parameter

Name GOFILM 20

Flight Control CADIX-CADDXF4\_AIO\_ELRS

VTX Moonlight Kit

Motor Diagonal 94mm 6000KV

Motor 1303 6000KV

Propeller 115x5g

Size 133x123x33mm

Weight 436g 120g 380g

Maximum Hover Time About 5 min 30s

Remote Control Receiver ELRS 2.4G

Battery Interface XT30

#### Flight Control Parameters

MCU STM32F405RG

GYRO and IMU ICM4288

Barometer ELRS V3.0 UART

ExpressLRS 20Mbps

ESC 8Mbps

Blackbox 2-4S Lipo/Lvhv

Support Power 2.5A 15.5mm

Mounting Hole Distance 2.5A 15.5mm

Firmware Target BETAFLIGHT4

#### VTX Parameters

Model Moonlight Kit

Firmware Name Avatar\_moonlight\_Sky\_X.X.X

Communication Frequency 5.725-5.850 GHz

Transmitter Power (EIRP) FCC: <30dBm; CE: <14dBm;

Receiver Power (EIRP) SRR: <30dBm; MIC: <25dBm

Antenna Gain JST T 0.4\*4 (power cable);

Antenna Type microSD Card Slot, IPEX-1

Antenna Model Starlight sensor

Antenna Size Max 160°

Antenna Type F2.1

Antenna Model Rolling shutter

Antenna Size 100@250fps; 2.7K@30/60fps;

Antenna Model 1080p@100/60fps; 720p@60fps;

Antenna Model 150Mbps

Antenna Model MP4 (H.264)

Antenna Model Support

Antenna Model Support

Antenna Model 7.4V-25.2V

Antenna Model 12V@1.4A, 8V@2.2A

Antenna Model U3 microSD, Max 256G

Antenna Model 19.6mmx19mmx24mm

Antenna Model 15.3mmx24.5mmx34.5mm

Antenna Model 20.2mmx24.5mmx25mm (M2)

Antenna Model 38.5g (Antenna not included)

Antenna Model Average delay 22ms

Antenna Model 2 (IPPEX)

#### CADDXFV Support

email: support@caddxfpv.com

Download the latest version from

<https://www.caddxfpv.com>



# GOFLIM 20

## 快速入门指南

V1.2



## 如何对频 ELRS 2.4G:

1. 飞控板载 ELRS 2.4G 接收机，使用电池给 Gofilm 20 快速通电 3 次，当接收机指示灯（如图 ③）变为红灯快闪两次时为进入对频模式。
2. 使用 ELRS 2.4G 协议遥控器进行对频，以 Radiomaster ZORRO ELRS 2.4G 遥控器设置为例，根据图 ① ② 进行遥控器设置，对频成功后飞控 ELRS 接收机指示灯为红灯常亮。



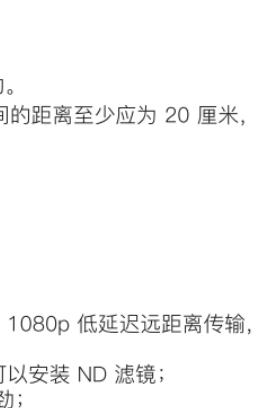
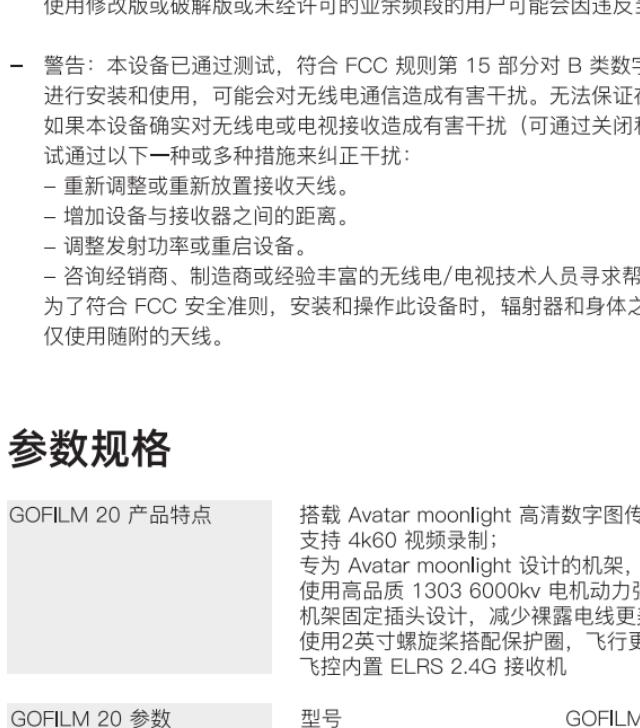
默认固件版本: ExpressLRS V3.0.1

接收机指示灯状态：

红色 LED 常亮表示绑定成功或 RC 链接已建立；红色 LED 双闪表示进入绑定模式；红色 LED 慢闪表示 TX 模块没有 RC 信号输入；红色 LED 连续快速闪烁表示 ExpressLRS wifi 已启用；红色 LED 三闪表示模型不匹配，需要将 Model Match 从“关闭”更改为“打开”。

## 解锁开关：

对频成功后，连接 Betaflight 地面站，进入模式选项，尝试拨动遥控器各功能开关，当黄色光标移动到设定范围就会开机相对应的功能，设置完成后点击保存。



默认电机转向

## 如何对频 VTX:

1. 连接 Moonlight Kit 和眼镜端电源。

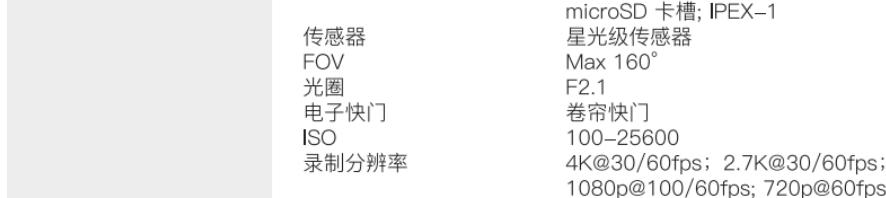
2. 等待设备启机后，分别短按 Moonlight Kit 和眼镜端对频按钮，当进入配对状态时， VTX 指示灯变为红色，眼镜端发出滴... 滴... 滴... 蜂鸣器提示。

3. 对频成功后， VTX 指示灯变为绿色常亮，眼镜端蜂鸣器停止并显示图传画面。

更多 MOONLIGHT KIT 产品信息请扫描二维码查看电子说明书。



## 飞控接线定义：



GOFLIM 20 产品特点

搭载 4K60p 视频录制，1080p 低延迟远距离传输；

专为 Avatar moonlight 设计的机架，可以安装 ND 滤镜；

使用高品质 1303 6000KV 电机动力强劲；

机架固定插头设计，减少裸露电线更美观；

飞控内置 ELRS 2.4G 接收机，飞行更安全；

飞控内置 ELRS 2.4G 接收机，飞行更安全；

GOFLIM 20 参数

型号

GOFLIM 20

飞控

CADX-CADDX4\_AIO\_ELRS

图传

Moonlight Kit

遥控对角距离

AvatarMoonlight\_Sky\_X.XX

电机对角距离

5.725-5.850 GHz

螺旋桨

FCC: <30dBm; CE: <14dBm;

重量

SRCC: <20dBm; MIC: <1.5dBm;

尺寸

JST1.0\*4(电源); JST1.0\*6(USB)

最长悬停时间

microSD 卡槽; IPEX-1

遥控接收机

星光级传感器

电池接口

Max 160°

飞控参数

F2.1

卷帘快门

4K@30/60fps; 2.7K@30/60fps;

1080p@100/200fps; 720p@60fps;

150Mbps

MP4 (H.264)

支持

支持

7.4V

12V@1.4A, 8V@2.2A

U3 microSD 卡, Max 256 G

19.6mmx19mmx24mm

15.3mmx34.5mmx34.5mm

38.5g (不含天线) (M2)

38.5g (不含天线) (M2)

Canvas mode

平均延时 22ms

2 (IPEX)

图传参数

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