CURVE MICRO 16

Quick Start Guide

V1.0



Port Name

① Canopy

② Ascent Lite+ Kit

③ VTX Mount

④ AXON 15 AIO V2.0

⑤ CADDX HV540 Battery

⑥ 1102 Motor

⑦ Whoop Frame



*This product is a stable light camera.

Transmitter Linking

Curve Micro 16Enter Link Mode

1. Power on the Curve Micro 16 by connecting a 1S battery to its A30 port.
2. Keep the VTX idle.
3. Plug in and unplug the battery connector three times consecutively, ensuring it powered on on the third plug-in within 5 seconds. The built-in ELRS receiver enters linking mode with the blue LED flashing twice consecutively every 0.5 seconds.
4. Press and hold the BOOT button for 2 seconds with a toothpick or safety pin to enter linking mode; the blue LED will flash twice repeatedly after entering linking mode (See Figure 1.2).



Link Transmitter (Take CADDXFPV Work Transmitter as an example)

1. Power on and hold the power button ① of the transmitter. The unit powers on when four indicator lights light up sequentially and stay solid with a "do-re-mi, do!" tone prompt.
2. Short-press the bind button ② twice. Four LEDs flash in pairs to enter bind mode. Successful binding is indicated by the indicator lights going off, a "success" sound and the flight controller's blue LED remains steadily on.



Note: The flight controller has a built-in ELRS 2.4G receiver, compatible with all mainstream ELRS 2.4G transmitters. Its factory firmware version is ELRS V3.5.0.

Connect FPV Goggles

1. Power on the video goggles (see Figure 2.1), and confirm that Curve Micro 16 is powered.
2. After the devices finish booting, press the bind buttons on both the goggles and Curve Micro 16 to enter pairing mode. You can easily bind by pressing the bind once on the goggle head cover.
3. When pairing succeeds, the indicator light of Ascent Lite+ turns red, and the goggles emit beeping alerts.
4. When pairing succeeds, the indicator light of Ascent Lite+ stays solid green, and the video feed appears on the goggles.



Remote Control Unlock Operation

1. Keep the throttle stick at the lowest position.
2. Press the unlock button on the transmitter (SE corresponds to CH5 channel), then push up the throttle to take off.



Note: The video transmitter generates substantial heat. Please start flying promptly after powering on to prevent damage caused by overheating.

VTX Firmware Upgrade

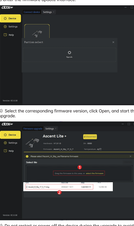
Ascent Lite+ supports firmware upgrade firmware from the official website. Ascent Lite+ Kit_X.X.X.zip is the firmware for VTX and upgrade. Do not modify the file name.

1. Power off the VTX, then, connect the device to your computer via a Type-C USB cable, then launch the Caddx PC Tool on your PC. Once the USB connection is established, follow the on-screen prompts to select the Ascent Lite+ Kit_X.X.X.zip firmware file and start the upgrade.

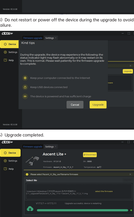
Notes:

- When connecting the Ascent Lite+ VTX to a computer via a Type-C cable, no external battery power supply is required, as the module will bepowered through the computer's USB port.
- Do not disconnect the USB connection to the computer during the upgrade process. You may unplug the USB cable only after the upgrade is completed successfully.

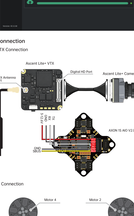
3) Click the Ascent Lite+ connection option.



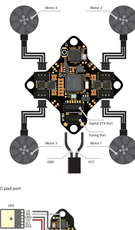
2) Click Select & Connect to open the pop-up menu, then click Upgrade to enter the firmware update interface.



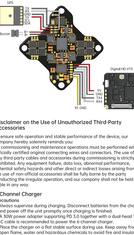
3) Select the corresponding firmware version, click Open, and start the upgrade.



4) Do not restart or power off the device during the upgrade to avoid failure.



5) Upgrade completed.

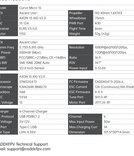


Connection

VTX Connection



FC Connection



FC pad port

Disclaimer on the Use of Unauthorized Third-Party Accessories

To ensure flight operation and stable performance of the device, our company has solemnly reminded users:

All commissioning and maintenance operations must be performed with officially certified original components and connectors. The use of any third-party cables and accessories during commissioning is strictly prohibited. Unauthorized components may cause unpredictable potential safety hazards and other direct or indirect losses arising from the use of non-official accessories shall be fully borne by the party conducting the irregular operation, and our company shall not be held liable in any way.

3-Channel Charger

Precautions

1. Please read the manual before charging. Disconnect batteries from the charger if they become warm or hazardous during charging is finished.
2. A 50W power adapter supporting PD 3.0 together with a dual-head Type-C cable is recommended for power the 3-channel charger.
3. Place the charger on a flat stable surface during use. Keep away from flammable, explosive, and hazardous materials to avoid fire and explosion risks.

4.This product does not support charging for standard voltage cells (4.20V).

Charging Procedure

1. Power the 3-channel charger with a Type-C cable. The orange indicator flashes once powered on.
2. Insert the battery's XH30 connector into the charger's matching A30 port, the square terminal is positive and the round terminal is negative.
3. The corresponding indicator flashes solid during charging and turns off automatically when fully charged.
4. A single 580mAh battery takes approximately 30 minutes to finish charging.

Specifications

Model	Curve Micro 16
FC	AXON 15 AIO V2.0
ESC	AXON
Firmware	AXON 15 AIO
Gyro	BMI270
Flight Controller Firmware Target	AXON15AIO
Flight Controller Firmware Version	ELRS(2.4G) BWD(5)
Receiver	ELRS
Receiver Firmware Version	ELRS V3.5.0
Receiver Protocol	2.4G
Receiver Interface	UART
Receiver Antenna Type	IPEX
Charger	3-Channel Charger
DC Protocol	USB-PD(PD3.0)
Charging Port	Type-C
Port Type	3PIN 2.54
Charging Current	1.5A
Propeller	90.40mm/ 1.6X3X3
Wheelbase	90mm
Weight (Without Battery)	65g
Dimensions	115x115x37mm
Battery Type	1S Lithium(1.5A)
Battery Port	XH30-2P
Battery Voltage	4.2V
Battery Capacity	580mAh
Battery Discharge Rate	45C
Battery Weight	19.5g
Battery Dimensions	36.40mm/ 14.5X10
Camera	Ascent Lite+
Camera Type	1/3"
Camera Resolution	1200TVL
Camera Lens	2.1mm
Camera Field of View	120°
Camera Weight	7g
Camera Dimensions	19.5x19.5x19.5mm
Camera Power Consumption	0.5W
Camera Video Output	PAL/NTSC
Camera Video Output Resolution	1200TVL
Camera Video Output Voltage	1Vp-p/75Ω
VTX	Ascent Lite+
VTX Power	25mW/200mW/500mW
VTX Frequency	5645MHz~5945MHz
VTX Channel	40
VTX Power Control	Band/Channel/Power
VTX Antenna	IPEX
VTX Weight	5.5g
VTX Dimensions	19.5x19.5x7.5mm
VTX Power Consumption	1.5W
VTX Video Output Voltage	1Vp-p/75Ω
VTX Video Output Resolution	1200TVL
VTX Video Output Type	PAL/NTSC
VTX Video Output Interface	IPEX
VTX Operating Temperature	-10°C~45°C
VTX Storage Temperature	-20°C~60°C
VTX Operating Humidity	5%~95%
VTX Storage Humidity	5%~95%

CADDXFPV Technical Support

Email: support@caddxfpv.com

CURVE MICRO 16

快速入门指南

V1.2



部件定义



*此产品为可无线操纵

遥控器对频

Curve Micro 16进入对频模式：

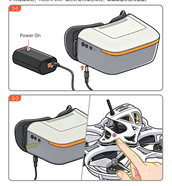
1. 使用USB电缆连接Curve Micro 16和AS3D遥控器飞行调参端电。
2. 对频方法：方法一：电池电量高时，先将遥控器正对，并保持第二次当开机状态（可能过程中会出现一次断开遥控器的情况），此时内置红灯闪烁即表明进入对频模式，遥控器红灯（绑定）常亮。

方法二：按照设置遥控器时，长按两秒BIND/OOT按键进入对频模式，进入对频模式后遥控器灯闪烁（如图①②）。



等待遥控器（以ACCESSORY Aino遥控器为例）

1. 长按遥控器OK键两秒钟，待弹出灯菜单后再长按OK键两秒，进入“Go no mic，do mic”对话框。
2. 短按两次遥控器OK键按键，切灯菜单进入对频状态，对频成功后，遥控器灯会显示“Go mic”，飞控亮红灯常亮。



注：飞控内置红灯闪烁表明，可等待5秒重上任意红灯闪烁2-4S遥控器，自广播模式操作遥控器。

连接模拟器

1. 使用随附模拟器电源（附图②），将Curve Micro 16与上电状态。
2. 等待连接成功，红灯常下模拟器Ascent Lite+对应模拟器入软对状态（通过手机或电脑模拟器可以检验对频）。
3. 对频完成后，Ascent Lite+遥控灯变为红色，模拟器显示连接模拟器。
4. 对频成功后，Ascent Lite+遥控灯变为绿色常亮，模拟器显示图传画面。



解锁起飞

1. 进入解锁保险前检查。
2. 按下遥控器解锁按钮（SE 对应CH5通道），向上推油门即可起飞。



（注意：连接电池连接前，请先通电后开始起飞）

固件固件升级

请在连接下载最新升级固件，Ascent Lite_SKY_X_V_XX.img 对应 VTX 频率组固件，注意请勿错误文件名。

Ascent VTX 固件升级可使用 Type-C 或 USB 线连接电脑，然后在电脑上打开 Caddx PC Tool 的工具，连接图 USB 接的对频，其可以帮助重新，选择Ascent_G_Sky_X_V_X_XX.img 固件进行升级。

注意：

1. Ascent Lite+VTX 通过 Type-C连接电脑时，外部无需电池供电，电脑的 USB口会为电路供电。
2. 升级中请不要断开连接电脑的USB线，当升级成功后再重新USB线。

10. 点击Ascent Lite+ 连接选项



图传固件升级

11. 点击选择连接按钮进入固件选项，点击升级按钮进入升级固件界面



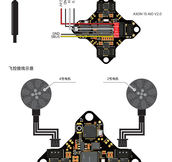
12. 选择对应图表固件点击打开并升级的固件



13. 开始对每半调节重新或关闭电源，避免升级失败

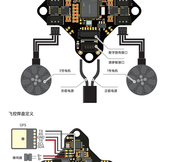


14. 升级完成

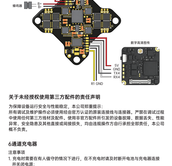


接线定义

图传接线示意



飞控接线示意



飞控接口定义



关于未经授权使用第三方配件的免责声明

为保障设备运行安全与性能稳定，本公司郑重提示：

若在设置过程中使用非官方或未经授权的第三方配件或电子元器件，严禁因该过错而中使用任何第三方组件造成，使用非官方配件所引发的设备故障，概不负责。售后服务，官方将拒绝提供免费或保修服务，并由造成用户方部分承担全部责任，本公司概不负责。

6.通道充电器

注意事项：

1. 充电前需要检查输入端子的情况下进行，在不充电时或长时间不充电充电器连接供应电源。
2. 推荐使用5V/2A或其他支持5V 2.1A充电协议的电源适配器及符合TYPE-C接为充电器使用。
3. 充电时间大约为2小时，并且最大功率，充电器及所有指示灯亮起，注意检查。
4. **此产品不支持锂电电池（4.20V）充电。**

充电步骤：

1. 使用带有TYPE-C接口充电电缆将六通道充电器供电，通电后观察指示灯开始闪烁。
2. 将电池的XH2.0接口对准充电器的XH2.0接口插入，正方形插入方向，面向插入方向。
3. 电池充电过程中，对应接口的指示灯红灯常亮，充满后常亮。
4. 单颗3.8V/4A电池充电时间约为2.5小时。



参数规格

型号	Curve Micro 16	电机	HQ 40mm 1.6X3(3)
飞控	Ascent Lite+	桨叶	40mm
电调	AXION 15 AIO V2.0	桨叶孔径	1mm
固件	AXN V3.5.0	桨叶厚度	0.3mm
接收机	AS3D	桨叶重量	0.7/0.75g
图传	Ascent Lite+	电池	1S HV
图传频率	5.8G 5.8G GHz	电池容量	300MAh/450/550mAh
图传功率	400mW 1W/2W	电池放电	75C/90C/95C/105C
图传天线	2.5dBi 5.8GHz LHCP/RHCP	电池接口	XH2.0
摄像头	1/40 1200 TVL CMOS	电池重量	4.7
图传接口	1/40 1200 TVL CMOS	电池输入	3.7/3.8V
外形尺寸	82.5*76.5*37.5/2.5	飞控固件	CADDX/AXN 2020.4
轴距	65mm	飞控电压	5V 3A(4.5V-18V)
重量	75.5/76.5/77.5g	电调固件	A-0.5
电调	15A*4	电调电流	15A*4
电调输入	2-4S	电调电压	2S-4S
产品	六通道充电器		
输入电压	5V/2A	输入接口	TYPE-C
输出电压	4.2V*6	输出接口	XH2.0
输出电流	1A*6 4.35V	充电时间	2.5小时*6 5mm

CADDXFPV 技术支持

Email: support@caddxfpv.com