



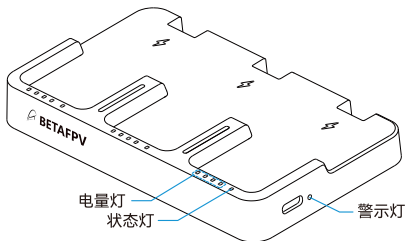
Aquila20充电管家

Aquila20 Three-Way Charging Hub

本充电器设计为Aquila20套装智能电池专用充电。本充电器支持PD3.0、QC3.0、BC1.2等快充协议，支持最大45W的输入，可实现3路同时充电，单路充电电流可达1.8A。本充电器仅支持LiHV 2S电池进行充电。

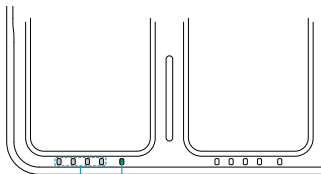
产品规格

- 产品名称：BETA FPV Aquila20 充电管家
- 产品型号：CH2431
- 电池类型：LiHV（满电电压8.7V）
- 电池端口：BT3.0
- 输入接口：Type-C USB
- 电压输入范围：9-20V
- 输出功率：15W（单口）
- 最大输入电流：1.8A
- 充电协议：PD3.0
- 重量：87±1.0 g
- 尺寸（长宽高）：118.5*73.5*21mm



充电使用说明

使用适配器的Type-C接口连接本充电器，将适配器接入电源中，充电管家状态灯绿灯常亮，表示该通道可以正常充电。将Aquila20电池插入绿灯常亮的充电口，充电器即可对电池进行充电。电量灯白色灯呼吸闪烁，电量灯逐个点亮，电池正在充电；电量灯白色灯全亮，电池已经充满，充电结束。



电量灯

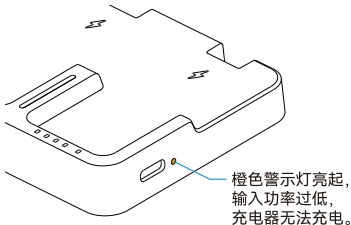
白色呼吸闪烁，正在充电中
白色常亮，充电完成

状态灯

绿色常亮，可以进行充电

注意：

1. Aquila20电池自带智能芯片，充满电会自动断电。
2. 充电管家根据当前适配器功率，会自动分配充电通道，若当前功率下最大允许的充电数量小于实际插入电池的数量，则会自动分配可充电通道：
 - 15W ~ <30W，同时只能充一路电池；
 - 30W ~ <45W，同时只能充两路电池；
 - >45W，全部通道均可充电。
3. 当功率不足以同时充全部插入的电池时，被禁用的通道的状态灯绿色灯会熄灭，代表不充电。
4. 当电源输入功率 < 15W时，Type-C接口右侧警示灯橙色灯亮起，充电器不做充电。



橙色警示灯亮起，
输入功率过低，
充电器无法充电。

注意事项

- 请勿让儿童操作此设备，充电过程需有人值守。
- 本充电器仅支持2S电池充电，请勿用于1S电池充电。
- 使用前必须仔细检查电池外观与状态，若发现电池存在鼓包、膨胀、外壳破损、漏液或电芯穿刺等情况，绝对禁止充电，且需按规范做报废处理，不可继续使用。
- 使用前需充分掌握所用电池的充放电规律与规格参数，在充电器系统中准确设置对应参数，参数错误可能造成设备损坏、电池故障，甚至引发火灾、爆炸等严重事故。
- 确保输入电源与本充电器规格参数兼容。
- 插拔电源时，手必须保持干燥。
- 电池充满电后请及时取下电池。
- 由于不同电池存在一定差异，可能存在2S电池满电电压低于8.7V，此为正常现象。
- 本充电器平衡充电存在0.03V误差，充电后2S电池2片电芯存在电压差，此为正常现象。
- 设备工作时会产生一定热量，注意通风散热及勿在潮湿、高热、狭小封闭的环境使用。
- 充电时应避免阳光直射，远离热源，充电器外壳和底部不覆盖物品，应保持通风良好；避免在狭小封闭区域操作，充电器周围需清除易燃易爆物品，杜绝安全隐患。
- 使用或存放充电器时，应防止任何液体或金属屑粒等渗入充电器内部，谨防跌落及撞击，以免造成充电器损伤。
- 若发现充电器出现故障(如指示灯异常、发热异常、充电异常中断等)，需立即停止使用，对照说明书排查问题原因。



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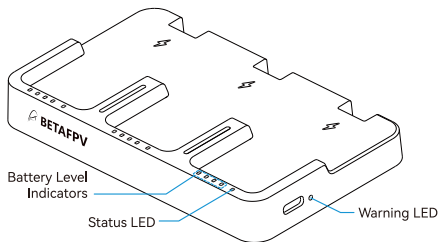
MADE IN CHINA



This charger is designed specifically for the smart battery of the Aquila20 FPV Kit. It supports PD3.0, QC3.0, BC1.2 fast-charging protocols. With a maximum input of 45W, it allows for 3-port simultaneous charging, and the single-port charging current can reach 1.8A. It only supports LiHV 2S batteries for charging.

Product Specifications

- Product : BETA FPV Aquila20 Three-Way Charging Hub
- Product model: CH240303
- Battery type: LiHV (fully charged voltage: 8.7V)
- Battery charging connector: BT3.0
- Power input connector: Type-C USB
- Input voltage range: 9-20V
- Output power: 15W (per port)
- Maximum input current: 1.8A
- Charging protocol: PD3.0
- Weight: 87±1.0 g
- Dimensions (L*W*H): 118.5*73.5*21mm



Charging Instructions

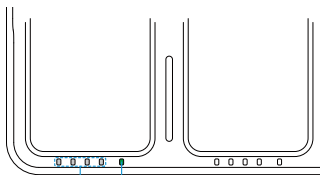
Connect the adapter and battery charger with Type-C cable, then plug the adapter into the power socket.

When the status LED is solid green, it indicates that the corresponding channel is ready for normal charging.

Insert the Aquila20 battery into the charging port with the green light on to begin charging.

Charging Status:

- The battery indicators will flash white one by one to show that charging is in progress.
- When all battery indicators are solid white, it indicates the battery is fully charged and the process is complete.



Status LED

Solid green indicates the channel is ready for charging.

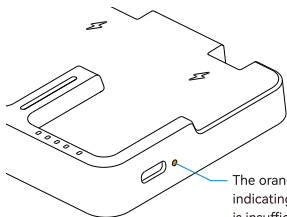
Battery Level Indicator

Flash white one by one to show that charging is in progress.

Solid white indicates charging is complete.

Cautions:

1. Aquila20 battery has a smart chip that automatically disconnects power when fully charged.
2. The charger will automatically allocate charging port based on the current adapter's power. If the maximum number of batteries supported by the current power is less than the number inserted, an available charging port will be automatically assigned for charging.
 - 15W ~ <30W: Only one battery port can be charged at a time.
 - 30W ~ <45W: Only two battery ports can be charged at a time.
 - $\geq 45W$: All three ports can charge simultaneously.
3. When the power is insufficient to charge all inserted batteries simultaneously, the green indicator turns off, and the charging port is disabled, indicating that charging is not in progress.
4. When the power input is below 15W, the orange warning LED on the right side of the Type-C port will illuminate, and the charger will not charge.



The orange warning LED is illuminated, indicating that the input power is insufficient for charging.

Safety Precautions

- Do not allow children to operate this device. The charging process must be supervised at all times.
- This charger supports charging 2S batteries ONLY, please do not use it for charging 1S batteries.
- Before use, carefully inspect the battery's appearance and condition. If the battery shows swelling, bulging, casing damage, leakage, or cell puncture, charging is strictly prohibited. Such batteries must be properly discarded and must not be used again.
- Before charging, ensure you fully understand the charging and discharging characteristics and specifications of the battery in use. Set the corresponding parameters correctly on the charger. Incorrect settings may cause equipment damage, battery failure, fire, or explosion.
- Make sure the adapter input power supply is compatible with this charger's specifications.
- Keep your hands dry when plugging or unplugging the power supply.
- Remove the battery in time after fully charged.
- Due to variations among different batteries, some 2S batteries may have a full charge voltage lower than 8.7V. This is a normal phenomenon.
- The charger's balance charging function has a tolerance of 0.03V. After charging, a small voltage difference between the two cells of a 2S battery is normal.
- The device generates heat during operation. Ensure proper ventilation and do not use it in damp, high-temperature, or confined environments.
- Avoid direct sunlight during charging and keep the charger away from heat sources. Do not cover the charger's casing or bottom. Ensure good ventilation and avoid operating in enclosed spaces.

Keep flammable and explosive materials away from the charger to eliminate safety hazards.

- When using or storing the charger, prevent liquids, metal shavings, or foreign objects from entering the unit. Avoid dropping or impact to prevent damage.
- If any malfunction is detected (such as abnormal indicator lights, excessive heating, or interrupted charging), stop using the charger immediately and troubleshoot according to the user manual.

