



—— 标准版 | Standard Version ——

P1 数字图传接收机

P1 HD VRX

使用说明书 | USER MANUAL

第 I 版 2026-06-17

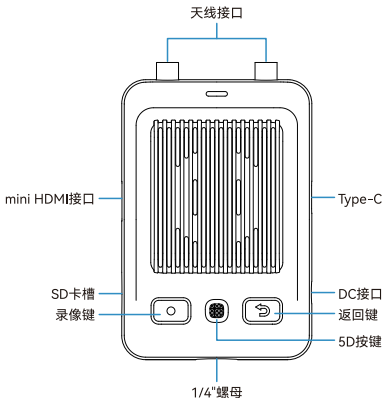
产品概述

P1数字图传接收机（标准版）是BETAFPV开发的无线图像传输接收机，适配Artlynk数字图传系统，可实现远距离低延时高清无线图像传输，显示部分通过miniHDMI接口外接输出，保持了BETAFPV一贯的极简操作和外观设计，将给模型爱好者们带来不一样的使用体验。

产品参数

名称	P1数字图传接收机（标准版）
尺寸	85.6*54.8*30.9mm（不含天线）
重量	70.5g（不含天线）
SD卡槽	最大支持1T
通信频率	5.3-5.8GHz
发射功率（EIRP）	FCC:<23dBm；CE:<14dBm
接口	Type-C； mini HDMI； Micro SD卡插槽； DC5.5x2.1mm
天线接口	外螺内孔
传输分辨率	1080P@60fps
图传码率	最大25Mbps
传输距离	> 400m
输入电压	5.5-26.4V

基本功能



- DC接口：电压范围5.5-26.4V。
- 录像按键：按下录像键开启/停止录像。
- 返回按键：按下返回上一级菜单。
- 5D按键：按下进入菜单界面，上下左右控制菜单选择方向，按下为确认选择。
- Type-C接口：插入Micro SD卡连接电脑后，可对SD卡磁盘操作。
- Micro SD卡槽：最大支持1T内存卡。
- mini HDMI接口：支持视频信号输出，可外接显示设备实现图像画面实时显示。
- 天线接口：外螺内孔。
- 1/4"螺母：三角支架固定。

注意：建议选择V30/U3或以上的SDXC卡，以避免录像丢失、报错。

供电说明

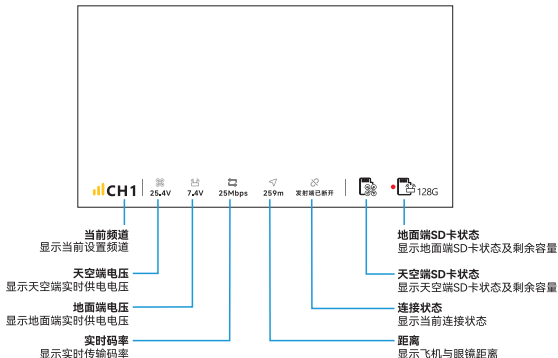
P1数字图传接收机（标准版）采用外置电池供电，接口为DC5.5，支持2-6S，供电范围5.5~26.4V。开启低压报警时，2S供电时电压低于5.5V，3S、4S、6S单颗电芯低于3.5V时蜂鸣器会发出“滴.. 滴.. 滴.. 滴..”报警声。



注意：2S航模电池供电时务必注意外接电池电压，防止外接电池电压过放。低压报警时请及时给电池充电，避免电量不足引起屏幕熄灭。

主界面说明

通过图传接收机上的Mini HDMI接口外接显示设备，上电开机完成之后，进入的界面为主界面。在主界面的底部有部分重要的参数标识。



注意：SD卡状态，未插入SD卡时显示灰色，插入SD卡时显示亮色，录像时红点闪烁提示，不在录像状态不显示红点，卡满显示Full。

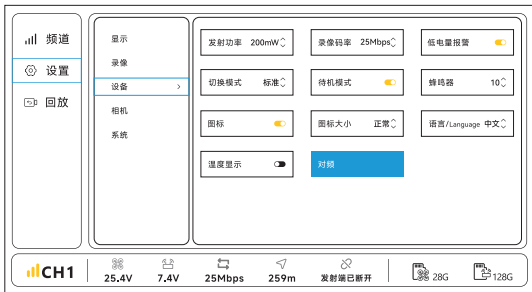
对频说明

对频前准备：

开启天空端、地面端设备，保持所有设备在2米内，并确保所有设备固件升级至最新固件。

对频：

1. 分别按下显示器对频菜单和天空端对频按钮，当进入对频状态时，飞机与图传接收机指示灯变为绿色快闪，图传接收机发出“滴.... 滴.... 滴.... 滴....”蜂鸣器提示音。



2. 对频成功后，飞机与图传接收机指示灯变为绿色常亮，显示器蜂鸣器发出长响“滴”停止后显示图传画面。

录像和回放

录像：P1数字图传接收机（标准版）支持安装Micro SD储存卡。安装后，SD卡图标由灰色显示亮色，即代表读取SD成功。连接飞机显示画面后，按下录像按键，SD卡图标旁有红点闪烁，即代表开始录制画面。

飞行结束后需再次按下录像键结束录像，否则可能导致录像失败。

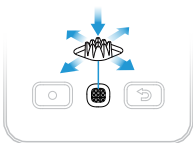


回放：进入回放界面，当选择框停留在视频列表中，短按即可查看录像视频，长按5D键可选择删除视频文件。播放界面单击确认键暂停/播放，左右方向键调整快退/快进。

注意：第一次在本设备上使用存储卡时，为确保存储卡的性能更加稳定，建议格式化存储卡。格式化会永久性地删除存储卡上的全部数据，并且无法恢复，请小心操作。

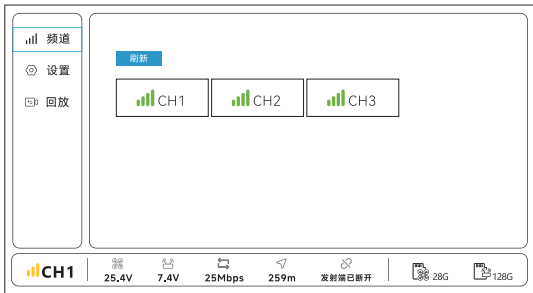
菜单设置说明

按下5D按键，进入菜单设置界面，在该菜单下可以对图传接收机部分参数进行查看和设置。



在主界面向下短按五维按键可打开菜单，五维按键上下左右可进行菜单选择，按下返回键可返回上一级菜单。

频道界面



标准模式下，显示3个频道；竞速模式下，显示16个频道。在当前界面时，点击“刷新”会刷新一次全部频段强度。

标准模式下，3个频道分别为：

- Channel1: 5758MHz (5753-5763MHz) ;
- Channel2: 5788MHz (5783-5793MHz) ;
- Channel3: 5828MHz (5823-5833MHz) 。

竞速模式下，16个频道分别为：

- Channel1: 5658MHz (5653-5663MHz) ;
- Channel2: 5695MHz (5690-5700MHz) ;
- Channel3: 5732MHz (5727-5737MHz) ;
- Channel4: 5769MHz (5764-5774MHz) ;
- Channel5: 5806MHz (5801-5811MHz) ;
- Channel6: 5843MHz (5838-5848MHz) ;
- Channel7: 5880MHz (5875-5885MHz) ;
- Channel8: 5917MHz (5912-5922MHz) ;
- Channel9: 5620MHz (5615-5625MHz) ;
- Channel10: 5580MHz (5615-5625MHz) ;
- Channel11: 5540MHz (5535-5545MHz) ;

Channel12: 5500MHz (5495-5505MHz) ;
Channel13: 5460MHz (5455-5465MHz) ;
Channel14: 5420MHz (5415-5425MHz) ;
Channel15: 5380MHz (5375-5385MHz) ;
Channel16: 5340MHz (5335-5345MHz) 。

注：两种模式的主要区别是竞速模式有更多的频道可供选择。如在室内WIFI环境下（一般是5.725-5.850GHz），图像传输可能距离短，容易受到干扰。在设备界面可以手动切换飞行模式为竞速模式，选择Channel16频点（即5335-5345MHz频段），避开干扰频段，获得更好的传输距离和图像质量。

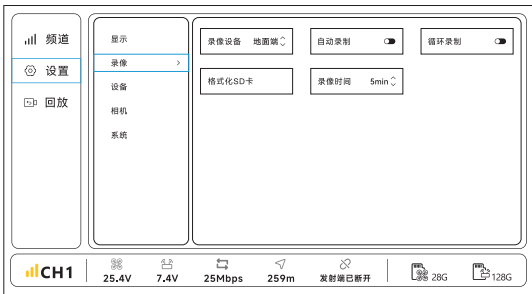
设置界面

显示界面



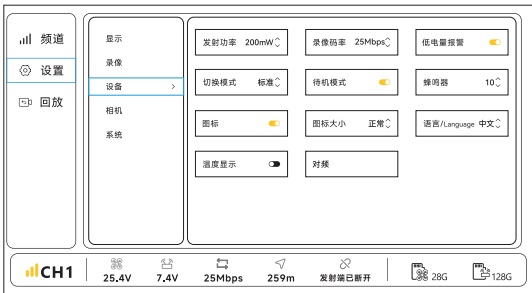
在显示界面，可对屏幕亮度、聚焦模式、飞控OSD位置、取景框进行设置。

录像界面



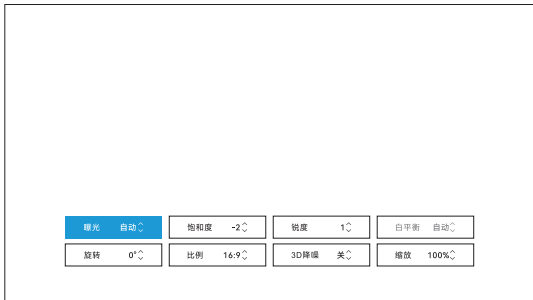
在录像界面，可对录像与SD卡进行设置。

设备界面



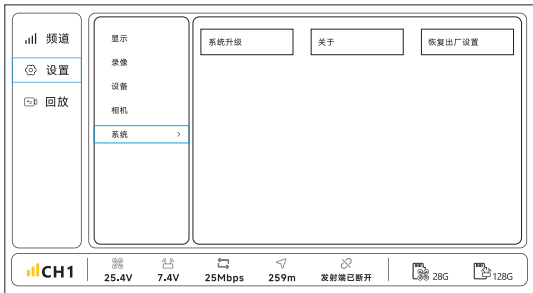
在设备界面，可对设备进行参数设置。

相机参数界面



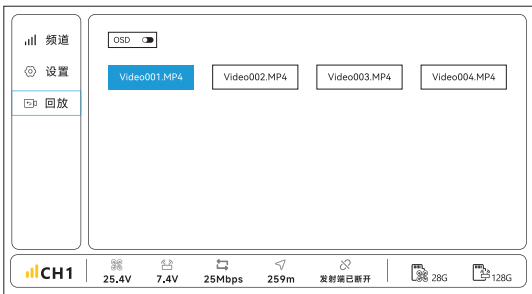
按下“相机”可进入相机参数界面，在参数界面里，可对图像参数进行参数设置。

系统界面



在设备界面，可查看设备信息，对设备可进行系统升级或恢复出厂设置。

回放界面



在回放界面，可对录制视频进行回放查看，OSD开关可对录制视频天空端信息进行开启或隐藏。

固件升级

1. 将天空端与地面端固件拷入SD卡内，SD卡插入地面端设备内。
2. 开启天空端与地面端并联通成功。
3. 点击“设置→系统→系统升级→开始升级”即可同时升级天空端与地面端。
4. 升级成功后重启天空端与地面端。

注意：

1. 确保按步骤升级固件，否则可能导致升级失败。
2. 整个升级过程将持续一段时间，请耐心等待固件升级完成。
3. 升级固件前请确保设备电量充足。
4. 升级过程中请勿断电。
5. 固件升级后，设置参数将被重置，请在升级完成后重新设置。
6. 若想单一升级天空端或地面端设备，则单一拷入对应固件即可。

扫描下方二维码或访问以下链接，参考发布记录了解所有版本的固件升级信息。



<https://flowus.cn/betafpv/share/6b05852b-6bb8-4c11-818f-d51848ce2dd4?code=4SMLTG>

注意事项

1. 低电量报警后请尽快停止使用，否则可能出现直接关机或者电池损坏的风险。
2. 建议使用柔软、干燥的布轻擦外壳，纸巾、粗布等粗糙材料会造成划痕。
3. 不要与钥匙、工具、砂石等硬物混放，避免挤压、摔落、尖锐物划伤。

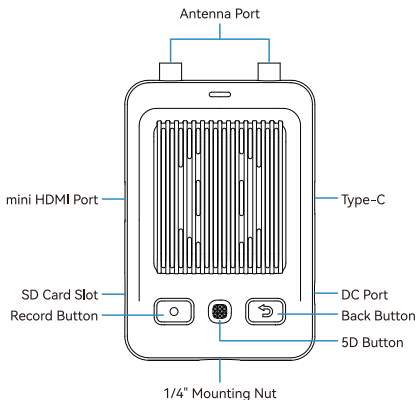
Product Profile

The P1 HD VRX (Standard Version) is a digital high-definition video receiver engineered by BETA FPV. Built for the ArtLynk digital ecosystem, it delivers an exceptional long-range, low-latency, and crisp HD transmission experience. Featuring a mini HDMI output for effortless external display connectivity, the P1 HD VRX retains BETA FPV's signature minimalist design and intuitive operation, offering a premium experience for FPV enthusiasts.

Specification

Product Name	P1 HD VRX (Standard Version)
Dimensions	85.6*54.8*30.9mm(Excluding Antenna)
Weight	70.5g(Excluding Antenna)
SD Card Slot	Max 1TB
Frequency	5.3-5.8GHz
Effective Isotropic Radiated Power(EIRP)	FCC:<23dBm; CE:<14dBm
Ports	Type-C; mini HDMI; Micro SD Card slot; DC5.5x2.1mm
Antenna Port	RP-SMA Female(External thread, inner pin)
Transmission Resolution	1080P@60fps
Bitrate	Up to 25Mbps
Transmission Range	> 400m
Input Voltage	5.5-26.4V

Basic Functions



- DC Port: Voltage range 5.5-26.4V.
- Record Button: Press to start or stop DVR recording.
- Back Button: Press to return to the last setting.
- 5D Button: Press to enter main menu; toggle up/down/left/right to navigation. Press to confirm selection.
- Type-C Port: Connect to a computer to manage files on the Micro SD card.
- Micro SD Card Slot: Support up to 1TB.
- Mini HDMI Port: Outputs video signal to external displays; connect to external display device for real-time image transmission.
- Antenna Port: RP-SMA Female.
- 1/4" Mounting Nut: For tripod mount.

Note: Use a U3/V30 or higher SDXC card to avoid data loss or recording errors.

Power Supply

The P1 HD VRX(Standard Version) is powered by an external battery through DC5.5 power port, supporting 2-6S LiPo within an operating voltage range of 5.5-26.4V.

Low voltage alarm

The built-in buzzer will emit a "beep-beep" warning under the following conditions:

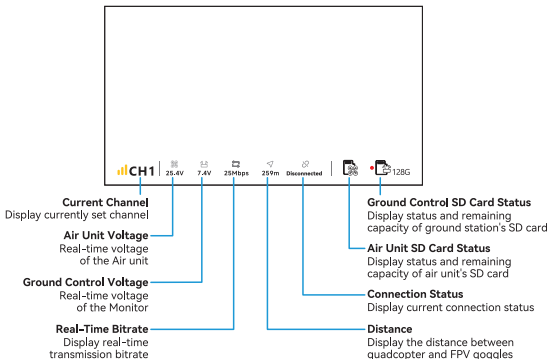
- 2S Power Input: Overall voltage falls below 5.5V.
- 3S, 4S, or 6S Power Input: Any individual cell drops below 3.5V.



Note: When powering the receiver with a 2S LiPo battery, closely monitor the voltage to prevent over-discharge. If the low-voltage alarm triggers, charge the battery promptly to prevent sudden screen shutdown due to insufficient power.

Home Screen Description

After connecting an external display device via the mini HDMI port on the video receiver, powering on and completing startup, the default interface is the Home Screen. The bottom of the Home Screen displays several key parameter indicators.



Note: The icon indicates the SD Card Status:
Grey(No SD Card), Solid White(SD Card Detected), Flashing Red(Recoding), No red dot(Standby) and Full(SD card Storage Full).

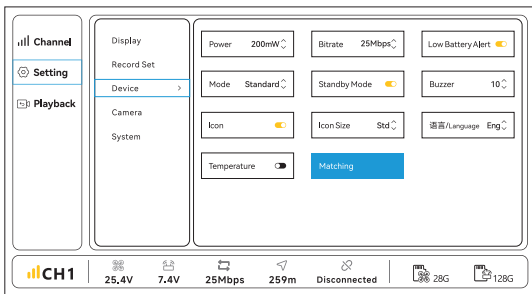
How to Bind

Pre-binding Preparation:

Turn on the Air unit and ground station equipment. Keep them within 2 meters and ensure all devices on the latest firmware.

Binding:

1. Select "Bind" in the display menu and press the Bind button on the quadcopter. During binding, the LEDs on the quadcopter and the VRX will flash green quickly and the VRX will beep.

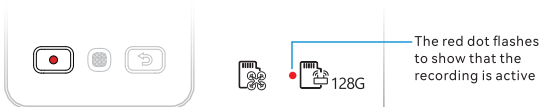


2. Once binding is successful, the indicator LEDs on both the quadcopter and the VRX will turn solid green. The receiver buzzer will emit a single long beep, after which the live video feed will appear on the display.

Recording and Playback

Recording: The P1 HD VRX(Standard Version) supports Micro SD card storage. Once a card is inserted, the SD card icon changes from gray to white, indicating that the SD card has been successfully detected. After connecting the video feed, press the Record Button; A flashing red dot will appear, indicating that the recording is active.

After the flight, you must press the Record Button again to stop and save the footage, otherwise the recording may fail.

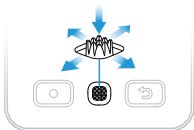


Playback: Enter the playback interface. Navigate through the video list using the 5D button. Short-press to open a selected video; long-press to delete the file. During playback, press the 5D button to pause/play, and toggle left/right to rewind or fast-forward.

Note: When using a Micro SD card on this device for the first time, we recommend formatting the card to ensure more stable performance. Formatting will permanently delete all data on the card and cannot be recovered. Please proceed with caution.

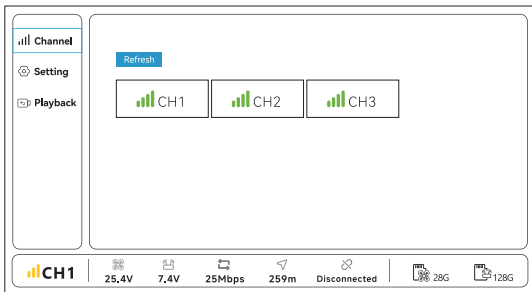
Menu Settings

Press the 5D button to access the menu setting of the VRX. In this menu, you can view and configure various parameters of the VRX.



On the main interface, short press the 5D button will open the menu. Use the 5D button to navigate through the menu items by moving up, down, left, or right. Press the Back button will return to the previous menu.

Channel Interface



In Standard Mode, 3 channels are available. In Racing Mode, 16 channels are available. When entering the Channel interface, select "Refresh" to refresh the signal strength of all frequency bands.

In normal mode, the three channels are:

Channel1: 5758MHz (5753-5763MHz)

Channel2: 5788MHz (5783-5793MHz)

Channel3: 5828MHz (5823-5833MHz)

In racing mode, the 16 channels are:

Channel1: 5658MHz (5653-5663MHz)

Channel2: 5695MHz (5690-5700MHz)

Channel3: 5732MHz (5727-5737MHz)

Channel4: 5769MHz (5764-5774MHz)

Channel5: 5806MHz (5801-5811MHz)

Channel6: 5843MHz (5838-5848MHz)

Channel7: 5880MHz (5875-5885MHz)

Channel8: 5917MHz (5912-5922MHz)

Channel9: 5620MHz (5615-5625MHz)

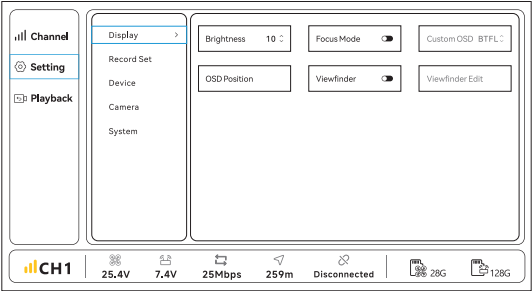
Channel10: 5580MHz (5615-5625MHz)

- Channel11: 5540MHz (5535-5545MHz)
- Channel12: 5500MHz (5495-5505MHz)
- Channel13: 5460MHz (5455-5465MHz)
- Channel14: 5420MHz (5415-5425MHz)
- Channel15: 5380MHz (5375-5385MHz)
- Channel16: 5340MHz (5335-5345MHz)

Note: The primary difference between the two modes is that Racing Mode offers extended channel options. For instance, in environments with heavy indoor Wi-Fi traffic (typically at 5.725-5.850GHz), the transmission range may be reduced and more susceptible to interference. You can manually switch to Racing Mode and select Channel 16 (5335-5345 MHz) to avoid interference, thereby optimizing transmission range and image clarity.

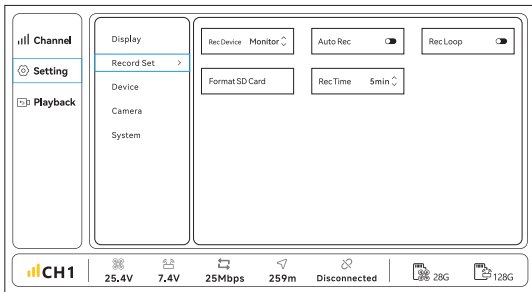
Settings Interface

Display Interface



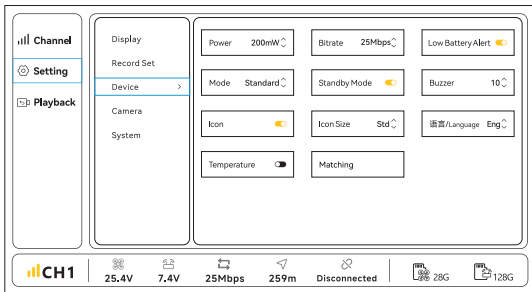
On the Display interface, you can configure the screen brightness, focus mode, OSD position, and the viewfinder setting.

Recording Interface



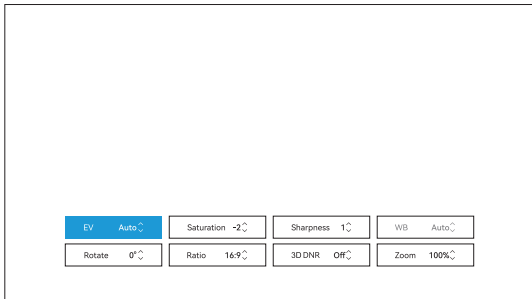
On the Recording interface, you can configure recording and SD card settings.

Device Interface



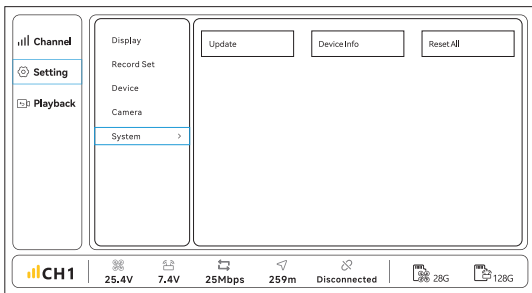
On the Device interface, you can configure parameters for the device.

Camera Parameter Interface



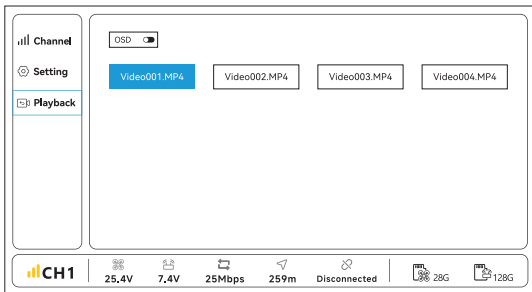
Press the "Camera" button to enter the camera parameters menu. On this interface, you can navigate to view and configure additional settings.

System Interface



On the System interface, you can view system information, update the system, or reset to defaults setting.

Playback Interface



On the Playback interface, you can review recorded videos. The OSD switch enables showing or hiding the air unit's data on recording videos.

Firmware Update

1. Copy the firmware for the air unit and ground station to an SD card and insert the SD card into the ground station device.
2. Power on the air unit and ground station device, and ensure they are successfully connected.
3. Click "Setting→System→Upgrade→Start" to upgrade both the air unit and ground station.
4. After the upgrade is successful, restart the air unit and ground station.

Note:

1. Make sure to follow the steps to upgrade the firmware, otherwise the upgrade may fail.
2. The entire upgrade process will take some time. Please wait patiently for the firmware upgrade is complete.
3. Make sure the device is fully charged before upgrading the firmware.
4. Do not turn off the power during the upgrade process.
5. After the firmware upgrade, the setting parameters will be reset. Please reconfigure your preferences afterward.
6. If you want to upgrade only the air unit or the ground control, simply copy the corresponding firmware.

Scan the QR code below or visit the following link to refer to the release notes for information on all versions of firmware upgrades.



<https://support.betapvp.com/hc/en-us/articles/59073199616537-Firmware-for-P1-HD-VRX-Standard-Version>

Attention

1. Stop using it immediately after the low battery alarm. Otherwise, the device may shut down or the battery may be damaged.
2. For cleaning, gently wipe the screen and casing with a soft, dry cloth. Abrasive materials such as tissues and coarse cloths can cause scratches.
3. For storage, keep the device away from keys, tools, sand, or other hard objects. Avoid squeezing, dropping, or scratching the screen with sharp objects.



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MADE IN CHINA

