Release Notes for Paladin PL18 EV Transmitter Firmware/Paladin PL18 EV 软件版本更新记录

Software version 软件版本	1.0.30	Date 日期	10/2024

新增功能：

1. 新增支持 i-BUS2 协议设备。
   - 可使用 i-BUS2 协议 PWM 转换器来实现更多 PWM 通道输出。（PWM 转换器可以由 i-BUS2 HUB（FS-iBH07）或接收机设置而成。）
   - 支持 i-BUS2 系列传感器：FS-iBC01 电流电压传感器和 FS-iBG01 GPS 传感器等。
2. 新增支持 FRM303 大功率高频头。
3. 新增教练功能。
   - 支持通过 DSC3.5mm 教练接口（PPM）接入头追设备。
   - 可使用教练线 / 无线教练模块实现 2 台发射机控制同一个模型的功能。
4. 新增数字开关功能，可设置 2 种类型 (仅 FGr12B 接收机更新最新固件后支持此功能)。
   - 数字开关类型 1：增加 8 个 3 档开关通道，发射机变身 26 通道，还新增支持 2 种 PPM 数字开关输出通道信号。
   - 数字开关类型 2：替换 2 个线性通道为 22 个 2 档开关通道，发射机变身 38 通道，此模式下有特殊的 S.BUS 协议输出数字开关通道信号。
   - 通过数字开关功能既可扩展通道数量，又可扩展控件数量。可点击切换数字开关状态，也可分配控件控制数字开关状态，控制状态屏幕可见。
5. 新增支持 PWM 输出转换为电源开关功能 (增强版接收机更新最新固件后支持此功能)。
   - 可设置 PWM 信号输出根据通道值大小转换为高低电平，适配控制灯的电源等功能。
6. 增加“对码向导”功能。
7. 增加共享模型对码模式，从而实现多台发射机切换控制一个模型的功能。
8. 新增 [功能死区] 功能。
   - 可设置每个功能的控件在 0 点附近的死区范围。
   - 也可以设置跳过控件启动死区。如输入起始 0% 直接变为 40%，后续再线性变换）。
9. 新增 [GPS] 功能。
   - 连接 GPS 传感器后可设置 GPS 相关功能。

修改功能：

1. 修改主页。
   - 首页通道显示改为仪表盘设计，显示两个通道实时值。
   - 增加更多主页（左右滑动切换）：数字开关（展示数字开关状态，也可点击切换数字开关）、传感器实时值显示、通道显示（显示通道实时值）和计时器显示。
2. 支持对码多接收时副接收机可不同设置，实现一台发射机控制多个模型（不切模型）。
   - 对码副接收机（未勾选副遥测时），发射机可在对码时对副接收机的接口协议、起始通道设置好后，后续不可更改，以此达到对码多个副接收分别输出不同通道来控制模型的不同部位。
3. 修改 [模型结构] 设置。

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修改功能 :

- 图形化选择引擎结构为履带还是轮式。
- 修复更改可选功能复位模型设置的 BUG。

4. 修改 [微调] 和 [功能分配] 功能。
   - 把原 [微调] 功能中 [微调模式] 和 [微调比率] 设置移动到 [功能分配] 功能下分配 [微调控件] 界面。即微调模式和微调比率按功能来设置。
   - [微调] 功能名称改为 [数字微调]，显示 TR1~TR8 的值变化以及微调值存储模式，不再区分是否被分配而显示不同。
5. 修改 [编程混控] 功能。
   - 修复被动不能选择通道 6 的 BUG。
6. 修改信息栏。
   - 增加显示当前工作模式指示图标。
7. 修改 [油门曲线]/[编程混控]>[线型设置] 下的“多点曲线”功能。
   - 默认 V 型时，修改横坐标中点的纵坐标值：由底部改到中间。
8. 修改 [系统设置] 功能。
   - 增加 [使用对码设置向导] 功能。

特殊变化 :

1. **删除 [系统设置] 下的 [界面快捷操作],修改后,主页 1 下左右滑动进入其他主页。**
2. **若 1.0.28 版本固件 [模型]>[模型结构] 里，油门、方向、左履带和右履带四项全勾选、四项全不选或勾选其中三项，此时导出模型数据，再导入到 1.0.30 的固件时，默认只保留左右履带的数据。**

注意事项 :

1. [数字开关] 和“PWM 转电源开关”功能需要接收机支持才可用（仅 FGr12B 接收机更新固件后支持）。
2. 使用 [共享模型] 模式时，需要确保当前发射机断开对模型的控制后再打开其他发射机，否则可能导致模型接收控制源不确定。
3. 发射机固件更新完成后，模型数据会被复位。在固件更新之前，可通过遥控管家进行数据备份，然后导入该版本使用。
4. 发射机和接收机更新完成后需要重新对码。

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New Functions :

1. Added support for the i-BUS2 protocol devices.
   - i-BUS2 protocol PWM converter can be used to get more PWM channel outputs. (The PWM converter can be set by a i-BUS2 HUB (FS-iBH07) or a receiver.)
   - Supported a range of i-BUS2 protocol sensors, including FS-iBC01 current and voltage sensor, FS-iBG01 GPS sensor, ect.
2. Added support for FRM303 RF module.
3. Added support for Trainer mode function.
   - Supported connection of Head Tracker devices through DSC 3.5mm trainer Jack (PPM).
   - Two transmitters can control the same model via Trainer mode function by using the trainer cable or wireless trainer unit.
4. Added Digital switch(DS), two types can be set, (only FGr12B receiver with the latest firmware supports this function).
   - Digital switch type 1: 8 3-position switch channels are added, thus the transmitter becomes 26 channels, and 2 new PPM digital switch channels are also added.
   - Digital switch type 2: replace 2 proportional channels with 22 2-position switch channels, then the transmitter becomes 38 channels, in this mode there is a special S.BUS protocol to output digital switch channel signals.
   - The digital switch function can expand the number of channels and the number of controls. The digital switch state can be switched by tapping the screen or switched by the control assigned, and the control status is visible on screen.
5. Added support for PWM output conversion to ON-OFF switch function (enhanced version receivers with the latest firmware supports this function).
   - The PWM signal output can be set to convert into high level or low level according to the channel value, so as to turn on/off the lamp, and other application.
6. Added "Binding Wizard" fuction.
7. Added Share model function to enable multiple transmitters to switch control one RC model.
8. Added Dead Zone function.
   - Set the dead zone range of each function's control around 0.
   - You can also set it to skip the control start dead zone. For example, the input starts at 0% and directly changes to 40%, and then linearly changing).
9. Added GPS function.
   - After connecting the GPS sensor successful, you can set the GPS related functions.

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Modified Functions:

1. Modified the Home interfaces.
   - The Channel Display on the Home interface has been changed to a dashboard design, showing the real-time values of the two channels.
   - Added more Home interfaces (swipe left or right to switch): Digital switch (displays the status of the digital switch, and you can also switch the digital switch state by tapping), Sensor real-time value display, Channel display (display of channel real-time values) and Timer display.
2. Supported different settings for the secondary receivers when binding multiple receivers, so that one transmitter can control multiple models (without switching models).
   - When binding a secondary receiver (when the S-Tele is not checked), the connector protocol and starting channel of the secondary receiver should be set before binding, which cannot be changed later, so that multiple secondary receivers can output different channels to control different parts of the model.
3. Modified the Model structure function.
   - The engine structure (Tracked or Humvees) is displayed graphically for easy selecting.
   - Fixed the bug that resets the model settings when changing Optional.
4. Modified Trims and Func assign functions.
   - Shifted the Trim mode and Trim rate to the Trim under the Func assign function from Trims function. That is, the trim mode and trim rate are set according to the function.
   - Displayed the value changes of TR1~TR8 and the trim value storage mode, no longer distinguishing whether it is assigned or not.
5. Modified Pro. Mixes function.
   - Fixed the bug that the Slave cannot select channel 6.
6. Modified the Status Column.
   - Added an icon to display the current condition.
7. Modified "Multi-point curve function" of the Throttle curve and Pro. Mixes function.
   - When it is the default V type, the vertical coordinate value of the midpoint of the horizontal coordinate is from the bottom to the middle.
8. Modified System function.
   - Added Use the Bind setting guide function.

Special Changes:

1. Deleted Screen quick access function of System. After modification, you can swipe left or right on Home intercace to access other home interfaces.
2. If in the Model > Model Structure of 1.0.28 firmware, all four items of THRO, Steering, Left track and Right track are checked, none of them are checked, or three of them are checked, when the model data is exported and then imported into the 1.0.30 firmware, only the left track and right track data will be retained by default.

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Notes:

1. Digital switch and "PWM output conversion to ON-OFF switch" functions are available when bound with the FGr12B receiver with the latest firmware.
1. When using the Shared model mode, make sure that the current transmitter disconnects with the receiver before turning on other transmitters, otherwise the model may receive an uncertain control source.
2. After the transmitter firmware update is finished, the model data will be reset. it is recommended to back up data by the FlySkyAssistant, and then import the data after the update is finished.
3. The transmitter and the receiver need to be rebound after the update is finished.

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Software Version 软件版本	1.0.28	Date 日期	05/2022

新增功能：

1. 为适配增强版系列接收机，新增或改变了一些特有的功能设置项目。具体如下所述：
   - 对码接收机前可对高频的一些参数进行设置，增强版接收机可选择 Routine 18ch 、Lora 12ch 或 Fast 8ch 模式，以匹配不同的应用场景。
   - 对码设置里 RF 系统为 Classic 18CH 是经典版系列接收机专用的对码系统，其它都是增强版系列接收机可对码的 RF 系统，且对码时候弹窗提示支持接收机类型。
   - 支持增强版系列接收机的 RF 系统均可设置起始通道。在 Routine 18CH 下双向通信时，可设置为多接收模式，可对码多个接收机。选择副遥测功能时，传感器中新增副接收机的回传参数显示，并支持设置相应的报警。
   - 部分增强版系列接收机（FGr8B、FTr8B、FGr12B、FTr12B、FGr4B、和 TMR）支持 Newport 功能。允许设置 Newport 接口输出不同的接口协议，可设置 PPM/PWM/i-BUS/S.BUS 信号类型。
   - 增强版系列接收机支持对每个通道设置不同的 PWM 频率，可设置窄频制式的 SR 和 SFR PWM 信号，也支持设置 PWM 信号周期与高频同步。

     增强版系列接收机传感器中新增 BVD 电压回传，[接收机设置] 菜单中增加 BVD 电压校准功能。
2. 失控保护新增设置 PWM 信号失控保护的无输出模式和单独关闭 PPM, i-BUS 信号输出的失控保护设置项。
3. 新增支持富斯遥控管家 V3.0 进行发射机和接收机的固件更新及模型导入导出，任何一个 AFDHS 3 发射机均可通过 Micro USB 线连接电脑，无线更新所有 AFDHS 3 协议接收机固件。
4. 新增开机升级向导：发射机固件升级后第一次开机会显示升级向导，可按提示进行初始化设置，即摇杆校准和 RF 更新。
5. 新增开机安全检查功能：
   - RF 开启报警设置中可设置开关的开机安全位置，支持设置上、中或下为安全位置，也可所有位置为安全位置。
   - 当开机检测高频开启时，系统会检测 SW 类开关是否在安全位置，如不在则不会发射信号，发射机停留在开机安全检测页面，并通过震动和声音提示（开启震动），直到开关拨至安全位置才可正常开机。
   - 可在开机安全检测界面设置关闭 RF 直接进入主页，此时发射机 RF 功能关闭，开机后需手动开启 RF。

修改功能：

1. 修改开机启动页面，修改为具备工程车专业宣传元素的彩色页面。
2. 修改关机流程，关机动画提示关机提示语，完全关机后才关闭屏幕。
3. 修改配置接收机为 PWM 转换器功能：若需将 i-BUS 信号转换为 PWM 信号输出，则将可设为 PWM 转换器的接收机配置为 PWM 转换器（支持的接收机：FGr8B、FTr8B、FGr12B、FTr12B、FGr4B、INr6-HS、FGr4 和 FTr10）。在配置界面可设置 PWM 转换器的起始通道和接口 PWM 频率（所有通道设置为同一频率，频率范围为 50-400Hz）。

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修改功能：

4. 修改模型设置：修改模型组合功能，由旧版的仅两个模型互相切换改为多模型可轮换切换，添加到组合中的模型均可操作模型组合开关（仅三档开关）进行切换。
5. 功能比率（AFR）和双比率设置：
   - 删除原比率和曲线功能，由功能比率 (AFR) 功能和双比率设置功能实现和超越原有功能。
   - 修改界面显示，功能设置界面增加实时位置和比率显示。
   - 修改运算规则，设置运算针对的是分配到通道的所有功能，包括辅助功能。
   - 修改调节逻辑：增加偏移设置项，调节偏移值可使整条变量线沿 Y 轴上下移动。
   - 增加曲线线型选择功能：将油门不回中的设置增加为一种线型，所有功能曲线均可设置不同的线型。
   - 增加 DR 设置替代曲线切换，不再限制一个功能仅可以设置 2 组双比率，所有功能均可定义为双比率。系统支持 10 组双比率。
   - 每组双比率可以设置对应功能、开关及启用模式。
6. 修改混控功能：
   - 修改为编程混控，支持 20 组自定义的 [主动]/[被动] 设置，且混控关系为曲线混控。
   - 使用多点方式调节每个点的混控关系（最多支持 11 点），且支持设置整条曲线沿 Y 轴上下偏移。
   - 可设置混控开启延迟和关闭延迟。
   - [主动] 可以选择控制对象为功能、摇杆或旋钮，且主动设置为功能时，还可定义运算源是否带入微调。
7. 修改油门曲线菜单：修改调节方式，增加偏移调节。同时优化 UI 设计界面。
8. 修改高频设置菜单：
   - 把高频设置中升级高频头、设置 PPM 等项目提取到前面。
   - 删除不适配工程车的高频头。
   - 删除此界面的 RF 标准（移至【对码设置】页面中且更名为双向通信）。
   - 增加 RF 开启报警设置，可设置开机时 SW 类开关的安全位置。
9. 修改功能分配：
   - 修改控件和微调分配界面，将原界面右侧的撤销图标，修改为“--”选项表示未分配。
10. 修改帮助中心：增加各推广平台二维码，更方便快捷寻找产品信息。
11. 修改开关分配：取消界面导航栏撤销图标，增加“--”选项表示未设置。另外状态开关可设置为常开或常关。
12. 优化启用 / 禁用图标：将履带混控、防抱死刹车和模型计时器的功能启用图标改为可表达当前状态且有更好点击指示作用的状态开关。

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特殊变化：

1. **不同模型下对码同一个接收机，单双向一致的情况下不记忆上次对码的模型。**
2. **若对码设置中修改了对码模式和通信方式，需要重新对码后才能通信，即使修改回原设置也需要重新对码。**
3. **此版固件部分功能与旧版相比结构和逻辑不同，所以结构发生变化的将无法进行跨版本继承，如：编程混控，功能比率，双比率设置。只支持部分数据跨版本继承。**
4. **本版本更新了高频库，升级发射机固件后需要同步更新高频固件、接收机固件后才能使用。更新方法如下详细描述：**
   - **升级装机的高频头 FRM301 固件：本次固件更新后，发射机第一次开机增加了开机向导，用户按提示操作即可升级高频头，但如高频未连接或者其它情况，则需用户通过发射机功能菜单 >[高频设置]>[高频模块固件更新] 升级。注意：发射机需正常开机，高频正常连接且开启状态下，高频类型设置为 FRM301 时，菜单列表中才有 [高频模块固件更新] 功能。**
   - **升级接收机固件：**

     ① 发射机固件打包几款接收机的固件（FGr12B、FGr8B、FTr10、FTr16S、FGr4 和 FTr4/FGr4S/FGr4P），可直接让接收机进入更新状态后，通过发射机的 [接收机设置] 菜单中 [接收机固件更新] 功能，选择对应的接收机型号去更新。

     ② 所有 AFDH 3 系列接收机都可以通过电脑端软件《遥控管家 V3.0》/《FlySky Assistant V3.0》在线更新，可以按软件界面提示进行更新操作
   - **注意：使用《遥控管家 V3.0》/《FlySky Assistant V3.0》在线更新接收机必须先更新发射机机固件为最新再更新接收机固件后，再更新接收机固件。注意若发射机固件需退回旧版本，则接收机也需同步退回**

注意事项：

1. 可使用遥控管家 V3.0 更新本版固件。推荐安装《遥控管家 V3.0》(《FlySky Assistant V3.0》) 后再执行更新，通过《遥控管家 V3.0》不仅可更新本版本发射机固件，后续的固件更新以及接收机固件更新均可在此软件上执行。遥控管家 V3.0 还支持模型导入导出以及产品常见问题解答等功能。
2. 更新高频和接收机后需要重新对码才可以使用，之前的对码信息已经无效。

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New Functions :

1. Add/modify special function setting items to adapt to enhanced receiver. The details are as follows:
   - Some RF parameters can be set before binding of the receiver. For enhanced receiver, you can choose Routine 18ch, Lora 12ch or Fast 8ch mode to match different application scenarios.
   - The Classic 18CH of RF system in the Bind setting is the binding system dedicated to the classic series of receivers. Others RF systems are the binding system that can be bound by the enhanced series of receivers. In addition, there is a pop-up window, indicating receiver types supported.
   - On the RF system supporting enhanced receiver, you can set Star.chan. (starting channel). In two-way communications under Routine 18CH, you can set to Mul RX(multi-receiver) mode, to bind multiple receivers. When S-Tele(secondary telemetry)function is selected, the return parameters of the secondary receiver are newly displayed in the Sensors. Corresponding alarms can be set.
   - Some enhanced series receivers support Newport function. It is allowed to set the newport interface to output different interface protocols, to set PPM/PWM/i-BUS/S.BUS signal type.
   - Enhanced series receivers support settings of different PWM frequencies for each channel. SR and SFR PWM signals of the narrow frequency system can be set. The PWM signal period can be set to synchronize with RF.
   - In sensors of the enhanced series of receivers, BVD voltage is added. In the RX Setup menu, BVD voltage calibration function is added.
2. For **Failsafe**, add new settings of **No output** mode, and separate shutdown of PPM and i-BUS signal outputs for failsafe.
3. **FlySky Assistant V3.0** is added with the functions of firmware update of transmitters and receivers, and model import and export. Any AFDHS 3 transmitter can be connected to a computer via Micro USB cable to update firmware of all AFDHS 3 protocol receivers wirelessly.
4. New power-on upgrade wizard: when you turn on the transmitter for the first time after firmware upgrade, the upgrade wizard is displayed. You can follow the prompts for initialization settings, that is, stick **Calibration** and **RF update**.
5. New power-on safety check function
   - In the RF Alarm Settings, you can set power-on safety position. Settings of the upper, middle or lower safety position are supported. All positions can be set to safety position.
   - When power-on detection RF is enabled, the system will detect whether the SW class switch is in safe position. If not, it will not transmit signals. Transmitter power-on safety detection page remains, prompted by vibration and sound (Vibration enabled). You can power it on normally when the switch is toggled to safety position.
   - You can set the disabling of RF to directly go to homepage in power-on

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New Functions :

safety detection interface. At this time, transmitter RF function is disabled. After power-on, you need to manually enable RF.

Modified Functions:

1. Modify power-on boot page as the color page with professional promotional elements of engineering vehicles.
2. Modify the shutdown process. Shutdown animation prompts shutdown sound. Screen is off after complete shutdown.
3. Modify function of **Config RX as A PWM converter**. If you need to convert i-BUS signals to PWM output, configure receivers that can be set as PWM converter to PWM converter (supported receivers: FGr8B, FTr8B, FGr12B, FTr12B, FGr4B, INr6-HS, FGr4 and FTr10). The **Start channel** and interface PWM **Frequency** of PWM converter can be set in configuration interface (All channels are set to the same frequency and the frequency range is 50 - 400 Hz.
4. Modify **Models**: modify **Model combination** function. In the earlier version, only two models can be switched with each other. In the later version, multiple models can be switched. Models added to the combination can all be switched through switching the switch (only three-position switch).
5. **Func. Rate**(AFR) and DR setup
   - Delete the original **Rate and EXP**. The functions **Func. Rate(AFR) and DR setup** realize and surpass the original function.
   - Modify interface display. Add **POS**(real-time position) and **Rate** display to function setting interface.
   - Modify operation rules. Set operations for all functions assigned to the channel, including auxiliary functions.
   - Modify adjustment logic: Add **Offs.**(offset) setting item. In the offset adjustment, the whole variable line can be shifted upward and downward along Y-axis.
   - Add **DR setting** to replace curve switching. There is no restriction of one function settings with only 2 groups of dual rates. All functions can be defined as dual rates. The system supports 10 groups of dual rates.
   - Each group of dual rates can be set with the corresponding function, switch and enabling mode.
6. Modify **Mixes** function
   - Modify as **Pro. Mixes**(Programming Mixes), to support 20 groups of customized **Master/Slave** settings. The mixes relationship is a curve mix.
   - Adjust the mixes relationship of each point in multi-point mode (up to 11 points are supported). The whole curve can be offset upward and downward along the Y-axis.
   - Mixes can be enabled with delay (**Open delay**)or delay can be disabled(**Close delay**).
   - Can chose control object as function, stick or knob for Master. When

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Modified functions:

Master is set as a function, you can also define whether the trim can affect the master.

7. Modify **Throttle curve** menu: Modify adjustment mode and add **Offs.**(offset) adjustment. The UI design interface is also optimized
8. Modify **RF setup** menu
   - Extract the items of upgrading **RF firmware** and **PPM setup** in **RF setup** to the front.
   - Delete the RF module not suitable for engineering vehicles.
   - Delete the RF standard in this interface (moved to the **Bind Setting** page and renamed Two-way communication).
   - Add RF enabled with alarm settings. You can set the safety position of the **SW** class switch in power-on.
9. Modify Func assign(function assign) funtion
   - Modify **Control** and **Trim** interface. The undo icon in the original interface on the right side is changed to " -- ", indicating it is not assigned.
10. Modify **Help center** function, add the QR code for each promotion platform to make it more convenient to search product information quickly.
11. Modify switch assignment: Cancel the undo icon in the interface navigation bar. Add the " -- ", indicating it is not set. In addition, the status switch can be set to Normal ON or Normal off.
12. Optimize enable/disable icon: change the enable icons of **Tack mixing**, **A.B.S.** and **Model timer** to status switches that can express current status with better clicking indication.

Special changes:

1. **In binding of the same receiver under different models, the last binding model will not be remembered in case of one-way and two-way consistency.**
2. **If the binding mode and communication mode are modified in binding settings, you need to re-bind for communication. Even if it is changed to original settings, you need to re-bind.**
3. **Some functions of this version of the firmware have different structures and logic compared with earlier versions. Therefore, structure change will cause failure of cross-version inheritance, such as Pro. Mixes(Programming mixes), Func.Rate(AFR)(function rate), and DR setup. Only part of the data is supported for cross-version inheritance.**
4. **The RF library is updated in this version. After upgrading transmitter firmware, you need to upgrade the RF firmware and the receiver firmware before use. The update method is described in detail as follows:**
   - Upgrade the firmware of the RF module FRM301which has assembled

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Special changes:

to the transmitter: after the firmware upgrade, the transmitter is added with power-on upgrade wizard after power-on the first time. Users can upgrade the RF module firmware according to the wizard. If the RF is not connected, users need to upgrade by clicking transmitter menu > **RF Setup** > **RF firmware update**. Note: when RF is normally connected in the enabling status during normal transmitter power-on and the RF type is set to **FRM301**, the **RF firmware update** function is available on the menu list.

- Upgrade receiver firmware，
  ① Transmitter firmware is packed with several pieces of receiver firmware, you can directly allow the receiver to enter the update state. In transmitter's **RX setup** menu in the **Receiver update** function, select the corresponding receiver model for update.
  ② All AFDH 3 series receivers can be updated online through computer software **FlySky Assistant V3.0**, you can follow the software interface prompts to update.
- Note: When you use the FlySky Assistant V3.0 to update the receiver online, you must first update the transmitter firmware to the latest version and then update the receiver firmware. It should be noted that receiver rollback is also required in case of transmitter rollback.

Notes:

1. You can use the **FlySky Assistant V3.0** to update firmware of this version. Install the **FlySky Assistant V3.0** and then execute the update. The **FlySky Assistant V3.0** can be used to update transmitter firmware of this version, subsequent firmware, and receiver firmware. The **FlySky Assistant V3.0** also supports the function of model import and export, as well as product FAQs.
2. After updating the firmware of the RF and the firmware of the receiver, you need to re-bind before use. Previous bind information is invalid.