Release note for Paladin PL18 EV Lite transmitter firmware/Paladin PL18 EV Lite 软件版本更新记录

Software version 软件版本	1.0.10	Date 日期	04/2025

新增功能：

1. 延长续航时间的设置
   - 在 [系统设置] 菜单下增了两个选项：[省电模式时间] 和 [省电模式设置]。通过 [省电模式时间] 功能，可设置在无操作状态下多久进入省电模式；而 [省电模式设置] 功能则允许自定义省电模式下的屏幕状态以及高频模式的相关设置。
   - 同时，[系统设置] 菜单中移除了 [熄屏时间] 功能。当发射机处于无操作状态时，它将根据省电模式的设置自动进入省电模式，并按照设置调整屏幕状态。
   - 摇杆灯和 LED 灯亮度也会相应降低，并且在省电模式下，摇杆灯和 LED 灯会根据 [屏幕] 功能的设置，进入呼吸灯状态或完全关闭，以节省电量。
2. 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、FS-iBA01 高度传感器、FS-iBT01 温度传感器、FS-iBS01 光感转速传感器和 FS-iBG01 GPS 传感器等。
3. 新增支持 FRM303 大功率高频头。
4. 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。
5. 新增数字开关功能，可设置 2 种类型 (FGr12B、FGr8B、FTr12B 和 FTr8B 等 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，总支持通道数达 26 个，还新增支持 PPM1-DS (Nautic futaba) 和 PPM2-DS (Nautic graupner) 协议输出通道信号。
   - 数字开关类型 2：替换 2 个线性通道为 22 个 2 档开关通道，总支持通道数达 38 个，此模式下 S.BUS-DS（Truck modified）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。
6. 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。
7. 模型新适配（主页 ☰ > [模型设置]>[模型结构]）
   - [设置模型图片] 功能下增加 [帆船] 和 [仿真船] 图片可选。
   - [可选功能] 功能下增加 [收索机] 功能可选。
8. 竞赛模式适配
   - [模型设置] 界面新增 [设为竞赛模式] 功能项，通过它可快速关闭 [低信号报警] 功能和 [遥测丢失报警] 功能。
   - [接收机设置] 功能下原 [低信号语音报警] 功能重新设计为 [低信号报警]：
     可设置报警声音；
     可设置报警值和报警重复周期；
     可以开启或关闭此功能。
   - [接收机设置] 功能下新增 [遥测丢失报警] 功能：
     可设置遥测丢失时报警声音；
     可以设置报警灵敏度，避免短暂干扰导致丢失报警；

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新增功能：

可以开启或关闭此功能。

9. 新增支持 PWM 输出转换为电源开关功能 (FGr12B、FGr8B、FTr12B 和 FTr8B 等 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。
10. 增加“对码向导”功能。
11. 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。
12. 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. 修复已知 bug，例如：
    - 修正了 [逻辑开关] 和 [数字微调] 界面的一些显示问题。
2. 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。
3. 支持对码多接收时副接收机可不同设置，实现一台发射机能控制多个模型（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。
4. 修改 [模型结构] 设置。
    - 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。
5. 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。
6. 修改 [编程混控] 功能。
    - 修复被动不能选择通道 6 的 Bug。
7. 修改信息栏。
    - 增加显示当前工作模式指示图标。
8. 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。
9. 修改 [系统设置] 功能。
    - 增加 [使用对码设置向导] 功能。

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特殊变化：

1. 关于省电设置对电流的影响（以 CE 版本为例说明）：

- 未开启省电模式：
  通过降低 LED 亮度等优化措施，提升了发射机的续航时间。
- 开启省电模式 (省电模式为默认设置且未连接收机)：
  耗电量约为未开启省电模式时的 50%。

2. 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。

注意事项：

1. 发射机固件更新完成后，模型数据会被复位。新版本不支持导入 1.0.6 版本模型数据。
2. 使用遥控管家备份数据时（1.0.10 及以后版本），需注意以下版本兼容性问题：遥控管家 3.0.4 版本和 3.3.5 版本目前互不兼容。因此，导出和导入模型数据时，必须使用相同版本的遥控管家进行操作。
3. 发射机和接收机更新完成后需要重新对码。
4. [数字开关] 和“PWM 转电源开关”功能需要接收机支持才可用。
5. 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。

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New functions:

1. Settings to Extend Battery Life
   - Under the **System** menu, two new options have been added: **Power Saving Time**: Sets the duration of inactivity before the transmitter enters power saving mode. **Power Saving Set**: Allows customization of screen state and RF mode configurations during power saving.
   - The **Backlight Timeout** function option has been removed from the **System** menu. When the transmitter remains inactive, it will now automatically activate power saving mode based on the configured settings and adjust the screen state accordingly.
   - The brightness of stick lights and LED will be reduced. In power saving mode, these lights will either enter a gradual light state or turn off entirely—depending on the power saving settings—to further conserve power.
2. 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 the FS-iBC01 current and voltage sensor, FS-iBA01 altitude sensor, FS-iBT01 temperature sensor, FS-iBS01 RPM sensor and FS-iBG01 GPS sensor, ect.
3. Added support for FRM303 high-power RF module.
4. 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.
5. Added **Digital switch(DS),** two types can be set (Receivers FGr12B, FGr8B, FTr12B, and FTr8B now support this feature after updating to the latest firmware).
   - Digital switch type 1: 8 additional 3-position switch channels are added, increasing the total supported channels to 26. Added support now includes PPM1-DS (Nautic Futaba) and PPM2-DS (Nautic Graupner) protocol output channels.
   - Digital switch type 2: Two proportional channels are replaced with 22 two-position switch channels, increasing the total supported channels to 38. In this mode, the S.BUS-DS (Truck Modified) protocol is available for digital switch channel signal output.
   - 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.
6. Added **Dead Zone** function.
   - Set the dead zone range of each function's control around 0.

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New functions:

- 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.

7. RC Model New Adaptation (**Home** ☰ **> Models > Model structure**)
   - Under the **Model picture** feature, added options for 'Sailing Ship' and 'Simulation Ship' images.
   - Under the **Optional** feature, added the **Reef** function.
8. Race Mode Adaptation
   - A new **Set as race mode** feature function item is added to the **Models** interface, which allows for quick disabling of the **Low signal alarm** function and the **Telemetry loss** function.
   - Under the **RX setup** feature, the original **Low signal voice alarm** feature is redesigned as **Low signal alarm**:

     Alarm sound can be set.

     Alarm value and alarm repetition cycle can be set.

     The function can be enabled or disabled.
   - Under the **RX setup** feature, a new **Telemetry loss** feature is added:

     Alarm sound can be set when telemetry is lost.

     Alarm sensitivity can be set to avoid loss alarms due to brief interference.

     The function can be enabled or disabled.
9. Added support for PWM output conversion to ON-OFF switch function (Receivers FGr12B, FGr8B, FTr12B, and FTr8B now support this feature after updating to the latest firmware).
   - 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.
10. Added "Binding Wizard" fuction.
11. Added Share model function to enable multiple transmitters to switch control one RC model.
12. Added GPS function.
    - After connecting the GPS sensor successful, you can set the GPS related functions.

Modified Functions:

1. Fixed the bugs, such as:
   - Fixed some display issues in the **Logic Switch** and **Digital switch**(**DS** interfaces.
2. 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

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Modified Functions:

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.

3. 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 interface 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.
4. 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**.
5. 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.
6. Modified **Pro. Mixes** function.
   - Fixed the bug that the Slave cannot select channel 6.
7. Modified the Status Column.
   - Added an icon to display the current condition.
8. 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.
9. Modified **System** function.
   - Added **Use the Bind setting guide** function.

Special Changes:

1. Explanation of Power-Saving Settings on Current Consumption (CE Version Example)
   - Power-Saving Mode Disabled:
     Through optimization measures such as reducing LED brightness, the battery life of the transmitter has been extended.
   - Power-Saving Mode Enabled (Default Setting, No Receiver onnected):
     Power consumption is reduced to approximately 50% of the level when power-saving mode is disabled.
2. Deleted Screen quick access function of System. After modification, you can swipe left or right on Home intercace to access other home interfaces.

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Notes:

1. After updating the transmitter firmware, all model data will be reset. Importing model data from version 1.0.6 is not supported in the new version.
2. When using FlySkyAssistant to back up data(transmitter firmware version with 1.0.10 and later) , please note the following version compatibility issues: FlySkyAssistant versions 3.0.4 and 3.3.5 are currently incompatible with each other. Therefore, when exporting and importing model data, you must use the same version of FlySkyAssistant for the operation.
3. Digital switch and "PWM output conversion to ON-OFF switch" functions are available when bound with the receiver with the latest firmware.
4. 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.
5. The transmitter and the receiver need to be rebound after the update is finished.