

## Release Notes for FS-ST16 Transmitter Software/FS-ST16 软件版本更新记录

Software Version 软件版本	1.0.20	Date 日期	09/2025
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- **新增功能：**
- [ 模型设置 ] 功能下新增 [ 设置为竞赛模式 ] 功能。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 ] 功能下新增 [ 高频设置 ] 功能。用来设置本机高频开启 / 关闭，以及外置高频的相关功能选择，如接收机接口协议、信号强度等设置。
  - [ 接收机设置 ] 功能下新增 [ 低信号报警 ] 功能。
    - 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；
    - 可以开启或关闭此功能。
  - [ 接收机设置 ] 功能下的 [ 失控保护 ] 功能新增 [ 失控保护判断时间 ] 功能：可设置当前模型失控保护判断时间。
  - [ 系统设置 ] 功能下新增 [ 油门模式 ] 功能：可设置油门回中或者油门不回中。
  - [ 设置 ] 功能下新增 [ 电池电压 ] 功能：可校准发射机电池电压。
  - 外置 FRM303 高频头开启时，接收机设置中新增相关功能，如：
    - [ 对码设置 ] 中 [ RF 系统 ] 功能中新增 5 种 RF 模式选项：Classic 18、C-Fast 10、Routin 18、Lora 12、Fast 8；
    - 新增 [ 接口协议 ] 功能，接口协议根据所选 RF 系统类型而变化；
    - 新增适配外置高频相关的 [ 失控保护 ] 功能项；
    - 新增 [ 响应速度 ] 功能，根据 RF 系统类型而变化；
    - 新增适配外置高频的 [ i-BUS 设置 ] 相关功能；
    - 新增适配外置高频的 [ 低信号报警 ] 功能；
    - 新增适配外置高频的 [ 遥测报警 ] 功能；
    - 新增 [ 信号强度 ] 功能，即 [ 接收机设置 ] 下新增信号强度输出设置功能。
- **修改功能：**
- 计时器相关报警语音、振动由归属 [ 系统 ] 改为归属 [ 报警 ]。
  - 修复其他已知问题。
- **特殊变化：**
- 无

### 注意事项

- 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。
- 使用遥控管家备份数据时，须注意以下版本兼容性问题：3.3.5 及以后版本不兼容 3.3.5 之前版本（即 3.0.4 及更早版本互相兼容，3.3.5、4.0.1 及以后版本互相兼容）。因此，导出或导入模型数据时，必须使用相互兼容版本的遥控管家进行操作。

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### 注意事项

- 发射机固件更新完成后，需完成摇杆校准。
- 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 a [ Set Race Mode] feature within [Model Set]. Quickly disables both [Low Signal Alarm] and [Telemetry Alarm] functions.
  2. Added a [RF Setup] feature within [RX Menu], used to enable/disable built-in RF module, or configure external RF module features including: RX Interface Protocol, Signal Strength, etc.
  3. Added a [Low Signa] (Low Signal Alarm) feature within [RX Menu]:
    - Alarm sound can be set.
    - Alarm value and alarm repetition cycle can be set.
    - The function can be enabled or disabled.
  4. Added a [TLM Loss] (Telemetry Alarm) feature within [RX Menu]:
    - Alarm sound can be set when telemetry is lost.
    - Alarm sensitivity can be set to avoid loss alarms due to briefinterference.
    - The function can be enabled or disabled.
  5. Added a [Failsafe time setting] feature within [RX Menu] to configure model's failsafe trigger delay.
  6. Added a [Thro mode] feature within [System Menu]: Set throttle to self-centering or non-self-centering.
  7. Added a [Battery Voltage] feature within [Setup]: Calibrate the transmitter's battery voltage.
  8. External FRM303 RF Module Features (when enabled):
    - Added 5 [RF System] mode options within [Bind Setup]: Classic 18, C-Fast 10, Routine 18, LoRa 12, and Fast 8.
    - Added a [Interface ](Inteface Protocol) feature (dynamic options based on selected RF system).
    - Added a [Failsafe] parameters for external RF.
    - Added a [Frequency] feature (adjustable per RF system type).
    - Added an [i-BUS Set] feature for external RF compatibility.
    - Added a [Low Signa] (Low Signal Alarm) feature for external RF.
    - Added a [TLM Loss] (Telemetry loss Alarm) feature for external RF.
    - Added a [Signal Stre] (Signal Strength) feature, namely adding a signal strength output setting feature within the [RX Setup] menu.
- **Modified functions:**
1. Timer-related voice alerts and vibration have been reassigned from [System] to [Alarm].
  2. Fixed other known issues.

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► Special changes: • None

### Notes

1. After the transmitter firmware update is finished, the model data will be reset. It is recommended to back up data through the **FlySkyAssistant**, and then import the data after the update is finished.
2. When using FlySkyAssistant to back up data, observe the following version-compatibility rules:
  - 3.3.5 and later are incompatible with any release before 3.3.5.
  - 3.0.4 and earlier are mutually compatible.
  - 3.3.5, 4.0.1, and all later releases are mutually compatible.Therefore, export or import model data only with mutually-compatible versions of FlySkyAssistant.
3. Done the **Stick Calibration** function after the transmitter firmware update is finished.
4. The transmitter and the receiver need to be rebound after the update is finished.

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## Release Notes for FS-ST16 Transmitter Software/FS-ST16 软件版本更新记录

Software Version 软件版本	1.0.19	Date 日期	05/2025
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▶ 新增功能：• 无

▶ 修改功能：1. 修复 BVD 电压显示异常问题。  
2. 修复 USB 模拟器无法正常使用的的问题。  
3. 修复其他已知问题。

▶ 特殊变化：• 无

### 注意事项

- 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。
- 使用遥控管家备份数据时，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。
- 发射机固件更新完成后，需完成摇杆校准。
- 发射机和接收机更新完成后需要重新对码。

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▶ New functions: • None

▶ Modified functions: 1. Fixed the issue of BVD voltage display.  
2. Fixed the issue of the USB emulator not working properly.  
3. Fixed other known issues.

▶ Special changes: • None

### Notes

- After the transmitter firmware update is finished, the model data will be reset. It is recommended to back up data through the **FlySkyAssistant**, and then import the data after the update is finished.
- When using FlySkyAssistant to back up data, 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.
- Done the **Stick Calibration** function after the transmitter firmware update is finished.
- The transmitter and the receiver need to be rebound after the update is finished.