# FLYSKY

## Release Notes for FS-ST8 Transmitter Software/FS-ST8 软件版本更新记录

| Software version 软件版本 | 1.0.44 | Date 日期 | 04/2024 |
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▶ **新增功能：**
- 无

▶ **修改功能：**
- 修改默认通道数 8 改为 12（[ 发射机设置 ]>[ 控件设置 ]>[ 通道数 ]）。
- 修复外置高频设置为 S.BUS 时，S.BUS 信号输出异常的问题。([ 接收机设置 ]>[RF 设置 ])。
- 修复计时器无法选择油门的问题（[ 发射机设置 ]>[ 计时器 ]）。

▶ **特殊变化：**
- 无

**注意事项**

- 本发射机支持两个固件版本：电位器版本和霍尔版本，注意选择相应的版本固件。固件更新完成后，需要重新校准摇杆。

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▶ **New functions:**
- None

▶ **Modified functions:**
- Modified the default number of channels from 8 to 12 (TX SET>SWITCH SETTINGS>CH NUM).
- Fixed the problem of abnormal S.BUS signal output when the external RF is set to S.BUS (RX SET>RF SETTINGS).
- Fixed an issue of that the start of the timer could not select the throttle (TX SET>TIMERS).

▶ **Special changes :**
- None

**Note**

- This transmitter supports two firmware versions: potentiometer version and Hall version. Be careful to select the firmware version accordingly. After the firmware update is completed, the joystick needs to be recalibrated.

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## Release Notes for FS-ST8 Transmitter Software/FS-ST8 软件版本更新记录

| Software Version<br>软件版本 | 1.0.42 | Date<br>日期 | 12/2022 |
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▶ **新增功能：**

1. 外置高频系统新增支持高频类型 [FRM303]、[CRSF] 和 [CRSF2]。
   - FRM303：支持 FRM303 高频头，可在发射机端设置如下功能。
     [对码设置]、[接口协议设置]、[失控保护设置]、[GPS 设置]、[RF 设置]、[关于接收机]、[PWM 频率设置]、[信号强度设置] 和 [传感器] 设置。[PWM 频率设置] 支持设置为 SR 和 SFR。
   - CRSF：支持 CRSF 高频头。
   - CRSF2：支持 CRSF 高频头及对码的接收机回传 RSSI，若接收机连接了飞控，则可回传飞控电压、飞控电流和电池容量信息。
2. 内置高频系统新增支持 [Routine] 与 [Fast] 两种模式。
   - 对于 Routine 模式：抗他机干扰性能强。
   - 对于 Fast 模式：抗本机共存性能强，延时更低，且功耗降低约 30%。
3. 新增 [范围测试] 功能。
4. [模型功能]
   - 直升机模型：新增 [陀螺仪 2] 功能。
5. [发射机设置] 新增 [开机设置]
   - [开机设置]：增加 [控件自检] 和 [失控保护提示] 功能项。

▶ **修改功能：**

1. [模型功能]
   - 工程车模型：[履带混控] 功能增加可分配通道。
   - 直升机模型：对于 [螺距曲线] 功能，通道 3 和通道 6 由"混控"改为"共用 J3 摇杆"；取消 [倾斜盘混控] 功能；对于 [陀螺仪功能] 功能，可分配通道与控件、可设置中位、范围值、微调步进。
2. [发射机设置]
   - 直升机模型：[倾斜盘类型] 功能由多种改为 H-1。
   - [系统设置]：更改 [LCD 亮度]、[LED 亮度]、[振动强度]、[背光时间] 和 [音量] 默认设置值。
   - 发射机进入熄屏状态后，可操作滚轮、菜单键 (MENU)、退出键（EXIT）或电源键（⏻）退出熄屏状态。
   - [教练功能]：修改 [状态] 为 [模式]，可选择学员模式或教练模式。
   - [控件设置]：修改通道设置数量，最多支持通道数量从 10 通道改为 12 通道。
3. [接收机设置]>[GPS 设置]
   - 修复 GPS 断开连接后无法查看数据问题。
4. 解决适配 FS-WTM01 无线教练模块适配 FS-ST8 作为教练控控制延时问题。将 [教练功能] 的 [状态] 选项更改为 [模式]，可设置为 [学员] 或 [教练]。

▶ **特殊变化：**
   - 无

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## 注意事项

1. 更新固件前，先通过"富斯遥控管家"将模型相关数据导出，更新后再将该文件导入发射机里。
   • 若不做"模型导出与导入"操作，所有模型数据恢复出厂设置。
   • 本版本做了修改的功能的数据恢复为默认值，如 [ 陀螺仪 1]、[ 履带混控 ] 及 [ 传感器校准 ]。
2. 本发射机支持两个固件版本：电位器版本和霍尔版本。注意固件更新完成后，需要重新校准摇杆。
   • 发射机出厂适配的总成座为电位器版本，更新固件需选择电位器版本固件。
   • 霍尔版本支持富斯霍尔摇杆总成座，如使用霍尔总成座请更新霍尔版本固件。

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▶ ### New functions:

1. For the EXT RF(external RF), add the RF types such as FRM303, CRSF and CRSF2.
   • FRM303: Supports FRM303 RF module. You can set the following functions at the transmitter side.
     Bind setting, interface protocol setting, failsafe setting, GPS setting, RF setting, about receiver, PWM frequency setting, signal strength setting and sensor setting. SR and SFR can be set via PWM frequency setting function.
   • CRSF: Supports CRSF RF module.
   • CRSF2: Supports the CRSF RF module and the binding receiver to return RSSI. If the receiver is connected with flight control, it can return flight control voltage, flight control current and battery capacity information.
2. For the INT RF(built-in RF) system, add the Routine and Fast modes.
   • Routine mode: If the transmitter RF system is set to Routine, it has strong anti-interference capacity for other model transmitters which are located in the same enviroment and the closer distance.
   • Fast mode:  if the transmitter RF system is set to Fast, then it has strong coexistence capacity among the same model tranmitters which are located in the same enviroment and the closer distance, and it has lower latency, in addition, the power consumption is reduced by about 30%.
3. The RANGE TEST function is added.
4. MDL SET(Model menu)
   • The GYROSCOPE 2 function is added for Helicopter model.
5. The BOOT SETTING is added for TX SET (transmitter setting).
   • BOOT SETTING: Adds the SWITCH SELF-CHECK and FAILSAFE PROMPT functions.

▶ ### Modified functions:

1. MDL SET(Model menu)
   • The TRACK MIX function of the engineering vehicle model is added

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with the assignable channels.

- Helicopter model: Change Channel 3 and Channel 6 from "Mix control" to "Shared J3 stick" in PITCH CURVE function; Cancel SWASHPLATE function; For GYROSCOPE function, the MID(neutral position), RANGE value and STEP value can be set.

2. TX SET( transmitter settings)

- Helicopter model: The Swashplate Type function is changed from multiple to H-1.
- SYSTEN SETTINGS: Change the default setting values of LED (LED brightness), BRIGHTNESS(LCD brightness), GRADE (vibration Intensity), TIME (backlight time) and VOLUME.
- After the transmitter enters the screen off state, you can operate the SCROLL, MENU, EXIT or POWER SWITCH( ⏻ ) to exit the screen off state.
- TRAINER: Change STATE to MODE to choose the TRAINEER mode or STUDENT mode.
- SWITCH SETTINGS: Revise the number of channels, the maximum number of channels supported has been changed from 10 to 12.

3. RX SET( receiver settings) > GPS SETTINGS

- Solve the problem of failure to view data after the disconnection of GPS sensor.

4. Solve the problem of delay in adapting FS-WTM01 wireless trainer module to FS-ST8 as trainer control. Change the STATE of TRAINER Function to MODE to set as TRAINER or STUDENT.

▶ Special changes :  • None

Notes

1. Before updating the firmware, export the model related data through "FlySky Assistant", and then import the file into the transmitter after updating.

- If you don't perform the "Export and import" operation, all model data will be restored to factory settings.
- The data of modified functions in this version will be restored to default values, such as GYROSCOPE 1, TRACK MIX and SENSOR CALIBRATION.

2. This transmitter supports two firmware versions: potentiometer version and Hall version. Note that the stick needs to be recalibrated after the firmware update is completed.

- The factory-adapted gimbal assembly of the transmitter is the potentiometer version. In case of firmware update, you must select the firmware of the potentiometer version.
- The Hall version supports Flysky Hall gimbal assemblies. If you use Hall gimbals, please update the firmware of Hall version.

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## Release Notes for FS-ST8 Transmitter Software/FS-ST8 软件版本更新记录

| Software version 软件版本 | 1.0.26 | Date 日期 | 04/2022 |
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▶ **新增功能：**
- 控件设置新增油门 [ 回中 ] 和 [ 不回中 ] 选项。
  配合用户 DIY 修改油门类型，同时关联到 [ 开机自检 ] 功能。
- 开机自检
  当油门模式选择 [ 回中 ]，开机自检时，不检测油门位置报警。
- GPS 设置新增"定位"或"未定位"提示。
  提示"定位"时，显示传感器实时值；提示"未定位"时，传感器数值则显示为 0。

▶ **修改功能：**
- 优化滚轮操作逻辑
  对于菜单所有数值设置，定义滚轮操作不循环，即调到极限数值后，数值不再继续增大或减小。
- 优化 LED 灯呼吸灯效
  灯效从暗变亮过程由快改慢，亮灭变化更柔和。
- 优化蜂鸣器声音
  传感器报警调整为 5S 循环一次，同时调整报警声音。
- 优化开、关机界面
- 修复了已知 Bug 问题。

▶ **特殊变化：**
- 无

## 注意事项
- 从固件版本 1.0.0.22 直接升级到固件版本 1.0.26 后，模型数据完全继承。
- 从固件版本 1.0.0.22 导出的"模型文件"不可用。

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▶ **New functions:**
- Add the THRO function including SELF-CENTER and NON SELF-CENTER options in SWITCH SETTINGS menu.
  To facilitate user DIY, we modified throttle type to associate with the Power-on Self-Test function.
- Power-on self-test
  When THRO is selected as SELF-CENTER, the throttle position alarm will not be detected during the power-on self-test.
- For GPS settings, add the prompts "3D FIX" or "NO FIX".
  When "3D FIX" is prompted, the real-time sensor value is displayed. When "NO FIX" is prompted, the sensor value is displayed as 0.

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▶ **Modified functions:**

- Optimize the scroll wheel operation logics.

  For all value settings in the menu, define the scroll wheel operation as Not cycle. The value will not continue to increase or decrease after it is adjusted to the limit value.

- Optimize the LED gradual light effect.

  Change the light effect from dark to bright and from fast to slow to make the LED On/Off change more softly.

- Optimize the buzzer sound.

  The sensor alarm is adjusted to once 5S, the alarm sound is also adjusted.

- Optimize the interfaces of power-on and power-off.

- Fixed known bugs.

▶ **Special changes :**

- None

Notes

- After the upgrade from firmware version 1.0.0.22 directly to firmware version 1.0.26, model data is fully inherited.
- The "model file" exported from firmware version 1.0.0.22 is not available.