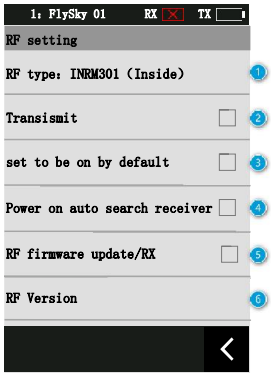
Demand summary

1. Interface related requirements 1: High frequency setting-please check the relevant interface description page
2. Interface related requirements 2: Receiver settings-please check the relevant interface description page
3. Model switching function:
3.1 Store up to 20/30/50 groups of models in INRM301 (built-in high frequency module) (the final number of models is to be determined);
3.2 The model setting of the remote control needs to be associated with the model switching of the high-frequency module, and the corresponding interface design should be made to solve the problem of the user switching model.
3.3 The transmitter interface and the model are related to the storage of the transmitter, and the transmitter needs to send information when powering on or switching the model.
3.4 Information about the receiver ID and other information is stored in the high-frequency module.




## RF Setting

### Condition

1. Click to enter the RF Setting interface, and select "INRM301 (built-in)" in "RF type" -> "RF type" to display the UI content currently provided.

### Details

Overview: Used to set the built-in FRM301 high-frequency module;
*Tick in the box means: function on;
*If there is no tick in the box, it means: the function is closed
*TXRF means: high frequency module

1. 1. RF type: Click to enter the "RF type" selectino interface

2. 1. Turn on the RF function: choose to turn on or off
   1.1 Choose to turn on RF: high frequency emission
   1.2 Choose to turn off RF: high frequency does not transmit
   1.3 Default: open
   * Whether high-frequency emission does not affect the user's setting interface.
   *Switch from "high frequency on" to "high frequency off". If the current TX and RX two-way communication are in progress, the pop-up window will prompt Picture 6

3. 1. Set the transmission function to be turned on by default at boot: select to turn on or off
   1.1 Turn on: Picture 1 will no longer be prompted during the boot process, and the high frequency will be emitted after booting
   1.2 Turn off: Picture 1 is prompted during the boot process, whether to launch after booting is based on user settings
   1.3 Default: Close

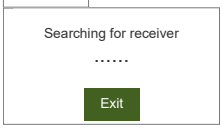
4. 1. Automatically search the receiver when power on: choose to turn on or off
   1.1 Turn on: After turning on the receiver, perform the search receiver operation and prompt Picture 2,
   1.2 Turn off: do not search for receivers after turning on
   1.3 Please refer to Picture 3 for the operation logic of automatic search receiver
   1.3.1 If a certain step is successful, it will stay in the "TXRF model" corresponding to a certain step, and the main interface will be displayed
   1.3.2 The user clicks "Exit" to stop the loop, and the main interface is displayed,
   1.3.3 If there is no trigger of the above two steps, keep displaying Picture 2
   *The stay duration of each step is the same as the duration set by this function in FRM303
   1.4 Default: open

5. 1. Update the high-frequency module/receiver: Click the pop-up window to prompt Picture 4
   1.1 Check: TypeC interface connects INRM301 high frequency module
   1.2 Uncheck: TypeC interface is connected to the inside of EL18
   1.3 Default: check

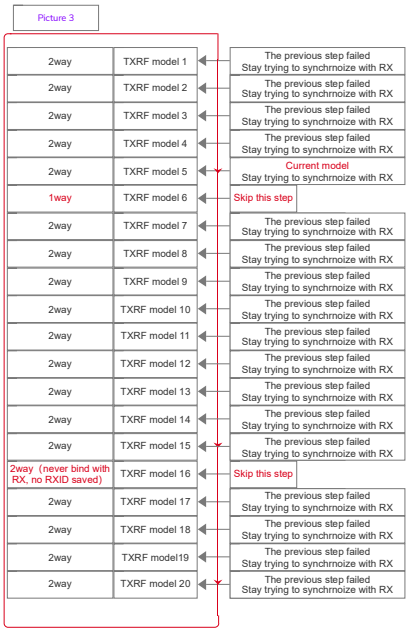
6. 1. About high frequency: After clicking, the pop-up window prompts Picture 5

Picture 1

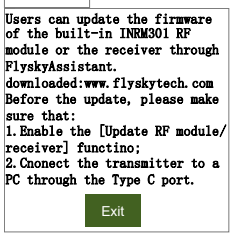

Picture 2



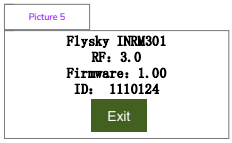

Picture 3




Picture 4




Picture 5




Picture 6


## RF type

Condition

1. Select RF Setting->RF type to enter this interface

Details

Overview: Switch the RF type option;

1. User operation

1.1 The circle becomes solid means: selected;
When the circle becomes hollow, it means: unselected

1.2 Only 1 item can be selected in this interface, if 1 item is selected, the previously selected unchecked "checked" will become "unchecked"

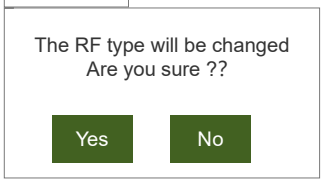
1.3 Picture 1 is prompted when switching options

1.4 If the current two-way communication between TX and RX, the switch option pop-up window prompts Picture 2, then Picture 1 will not be displayed

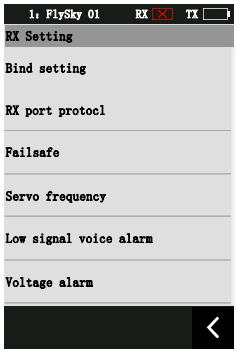
1.5 Default: INRM301

2. Function influence: The selection of this interface affects the display content of the "RF Setting" interface. Only when "INRM301 (built-in)" is selected, the "RF Setting" interface displays the UI content currently provided.

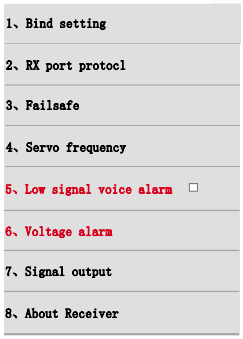
Picture 1



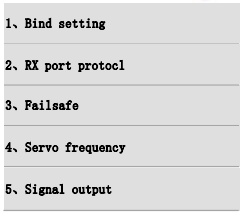

Picture 2




Classic RX (V0) -2Way: ①

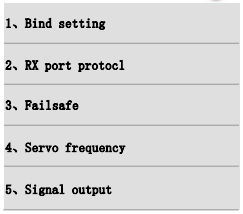



Classic RX (V0) -1Way: ②




Enhanced RX (V1) -2Way: ③


Enhanced RX (V1) -1Way: ④




RX Setting

Condition

1. Select the "RX Setting" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the UI content currently provided.

Details

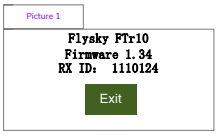
① Classic RX (V0)-2Way:
1. Condition: select "Classic 18ch" or "C-Fast 10CH" in "RX Setting" -> "Bind setting", and check "Two-way communication".
*The "low signal voice alarm" and "about receiver" functions are described in this interface. For other functions, click the function option to enter the next level of interface description.
2. Low signal voice alarm:
On: When receiving the information "signal strength" ≤ 30 provided by the high-frequency module, the voice broadcast is performed. The content of the broadcast can be set by the user. The default broadcast content can refer to PL18, and the voice data can be provided if necessary.
Default: open
3. About the receiver: Click on the pop-up window to prompt Picture 1

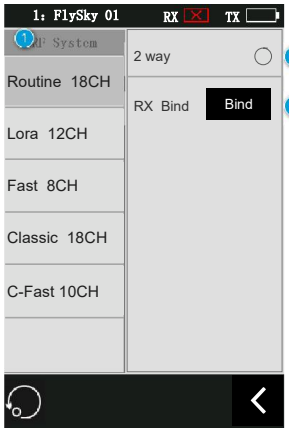
② **Classic RX (V0) -1Way:**
1. Condition: select "Classic 18ch" or "C-Fast 10CH" in "RX Setting" -> "Bind setting", and uncheck "Two-way communication".
*Function Click on the function option to enter the next level of interface description.

③ **Enhanced RX (V1) -2Way:**
1. Condition: select "Routine 18ch", "Lora 12ch" or "Fast 8CH" in "RX Setting" -> "Bind setting", and check "Two-way communication"
2. Low signal voice alarm:
On: When receiving the information "signal strength" ≤ 30 provided by the high-frequency module, the voice broadcast is performed. The content of the broadcast can be set by the user. The default broadcast content can refer to PL18, and the voice data can be provided if necessary.
Default: open
3. About the receiver: Click on the pop-up window to prompt Picture 1

④ 1、**Enhanced RX (V1) -1Way:** :
1. Condition: Select "Routine 18ch", "Lora 12ch" or "Fast 8CH" in "RX Setting" -> "Bind setting", and uncheck "Two-way communication".
*Function Click on the function option to enter the next level of interface description.

Picture 1






## RX Setting

**Condition**

1. Select "RX Setting" -> "Bind setting" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the UI content currently provided.

**Details**

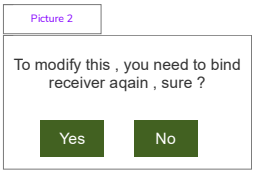
1. RF system:
   1 Such as the current two-way communication between TX and RX. Switch the RF system, the pop-up window prompts Picture 1
   2 If the current TX and RX are in non-bidirectional communication, switch the RF system, and the pop-up window will prompt Picture 2
   3 Default: C-Fast 10CH
   4. Classic RX (V0)
   4.1 Users can choose "Classic 18ch" or "C-Fast 10CH"
   5. Enhanced RX (V1)
   5.1 Users can choose "Routine 18ch", "Lora 12ch" or "Fast 8CH"

2. **2 way:**
   1 Such as the current two-way communication between TX and RX. Switch on/off, the pop-up window prompts Picture 1
   2 If the current TX and RX are in non-bidirectional communication, switch on/off, and the pop-up window will prompt Picture 2
   3 Default: Check "Two-way communication"

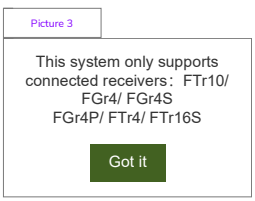
3. **RX Bind:**
   1 Such as the current two-way communication between TX and RX. Click on the code, the pop-up window prompts Picture 5
   2 If the current TX and RX non-bidirectional communication,
   2.1 "Classic RX (V0)" click "code matching", the pop-up window prompts Picture 3
   2.2 "Enhanced RX (V1)" click "code matching", the pop-up window prompts Picture 4
   3. Click "Yes" in the prompt box to enter the "code matching interface" such as Picture 6
   3.1 If it is one-way, the user needs to manually click the "Return" button to Exit this interface and return to the "Bind setting" interface.
   3.2 If two-way, the code matching is successful, the "code matching successful" interface will be displayed for 1.5s, and then it will automatically return to the "Bind setting" interface

Picture 1

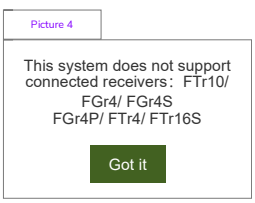

Picture 2



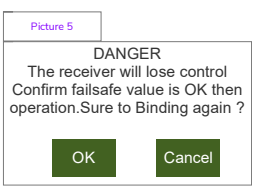

Picture 3



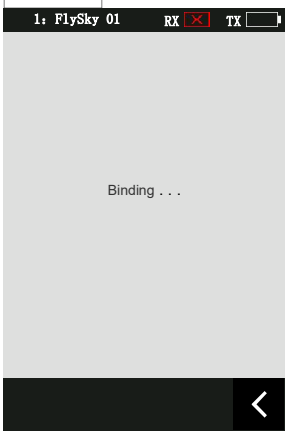

Picture 4




Picture 5

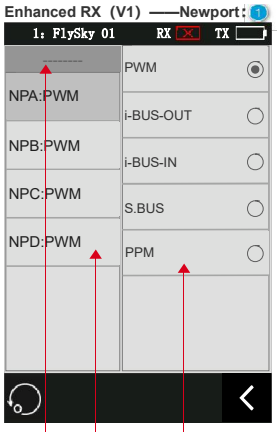


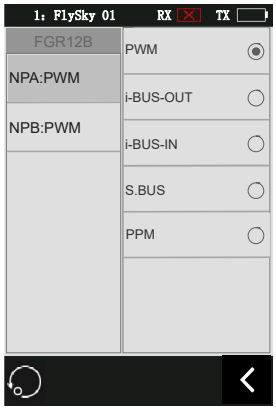

Picture 6




Picture 7

Enhanced RX (V1) ——Newport: 1



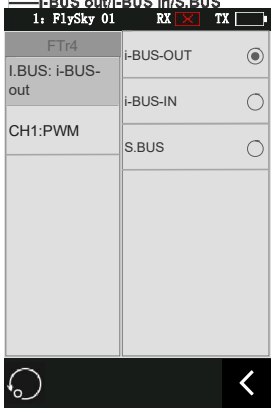




Signal type display area

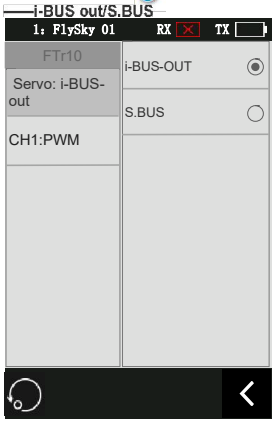
Interface display area

Receiver model display area

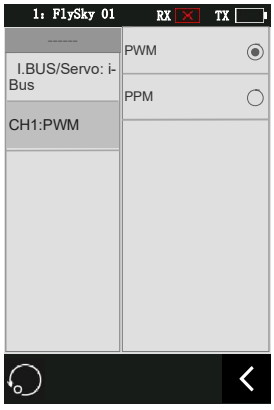
Classic RX (V0) 2
——i-BUS out/i-BUS in/S.BUS




Classic RX (V0) 3
——i-BUS out/S.BUS




Classic RX (V0) 4
——PWM/PPM




RX port protocol

Condition
1. Select "RX Setting" -> "RX port protocl" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the current UI content.

Details

1 **Enhanced RX (V1)**

**1 Receiver model display area域**
1.1 In two-way communication with RX, this area displays the RX model: such as FTr12B
1.2 Whether "-----" is displayed in this area

**2 Interface display area**
2.1 TX gets the quantity of RX Newprot and displays the corresponding quantity
2.2 If the two-way communication with RX is not yet available and cannot be obtained, it will display "NPA", "NPB", "NPC", "NPD"
2.3 "NPA:" displays the signal type options behind

**3 Signal type display area**
3.1 Signal display rules
3.1.1 The PWM signal can be repeatedly selected from multiple Newports
3.1.2 i-BUS out Multiple Newports can only choose one. If one of the Newports is selected, the other Newport interfaces will no longer display this option
3.1.2 Only one i-BUS in multiple Newports can be selected. If one of the Newports is selected, the other Newport interfaces will no longer display this option
3.1.2 S.BUS multiple Newport can only choose one, if one of the Newport is selected, the other Newport interface will not display this option
3.1.2 PPM multiple Newport can only choose one, if one of the Newport is selected, the other Newport interface will no longer display this option
3.2 Default: PWM
3.3 When switching to "i-BUS out" or "i-BUS in" option, a pop-up window prompts Picture 1

2 **Classic RX (V0) ——i-BUS out/i-BUS in/S.BUS**
For V0-1 interface RX (1 interface switch i-BUS in, i-BUS out, s.bus receiver, such as: FTr4)

**1 Receiver model display area域**
1.1 In two-way communication with RX, this area displays the RX model: such as FTr4
1.2 Otherwise, the area displays "-----"

**2 Interface display area**
2.1 "i-BUS:" displays user selection options behind

**3 Signal type display area**
3.1 Since it is impossible to distinguish between "V0-1 interface RX" and "V0-2 interface RX" when pairing codes, the commands are sent uniformly according to "V0-2 interface RX" when pairing codes.
3.2 After the code is successfully paired, such as normal two-way communication, the interface type supported by RX is obtained, and the corresponding switching option is displayed.
3.3 After the code is successfully paired, if it is not two-way communication, the setting content of "V0-2 interface RX" can only be displayed.
3.4 Default: i-BUS out
3.5 When switching to "i-BUS out" or "i-BUS in" option, a pop-up window prompts Picture 1

3 **Classic RX (V0) ——i-BUS out/sS.BUS**
For V0-2 interface RX (one interface can switch i-BUS out, s.bus, the other interface i-BUS in receiver, such as: FTr10)

**1 Receiver model display area域**
1.1 In two-way communication with RX, this area displays the RX model: such as FTr10
1.2 Otherwise, the area displays "-----"

**2 Interface display area**
2.1 "i-BUS:" displays user selection options behind

**3 Signal type display area**
3.1 Since it is impossible to distinguish between "V0-1 interface RX" and "V0-2 interface RX" when pairing codes, the commands are sent uniformly according to "V0-2 interface RX" when pairing codes.
3.2 After the code is successfully paired, such as normal two-way communication, the interface type supported by RX is obtained, and the corresponding switching option is displayed.
3.3 After the code is successfully paired, if it is not two-way communication, the setting content of "V0-2 interface RX" can only be displayed.
3.4 Default: i-BUS out
3.5 When switching to "i-BUS out" or "i-BUS in" option, a pop-up window prompts Picture 1

4 **Classic RX (V0) ——PWM/PPM:**

**1 Receiver model display area域**
1.1 In two-way communication with RX, this area displays the RX model: such as FTr10
1.2 Otherwise, the area displays "-----"

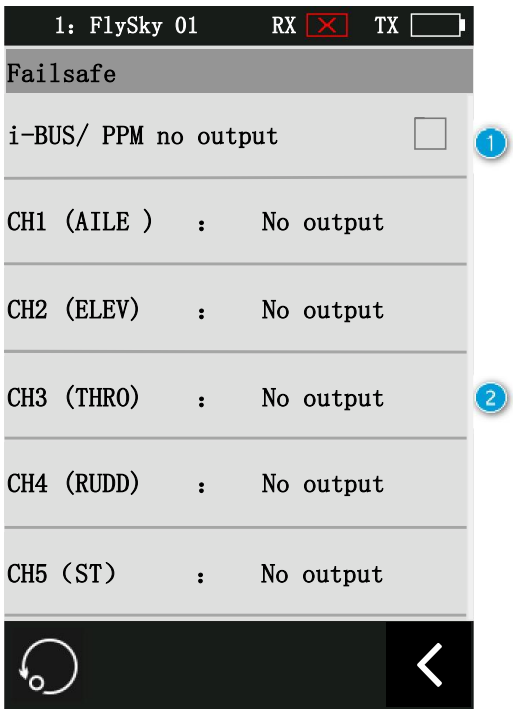
**2 Interface display area**
2.1 "CH1:" displays the user selection options behind

**3 Signal type display area**
2.2 Provide two options to choose "PWM" and "PPM"

Picture 1

I-BUS in / out Protocol switching may cause abnormal device in the interface connection . which can be recovered after restart.

Exit




## Failsafe

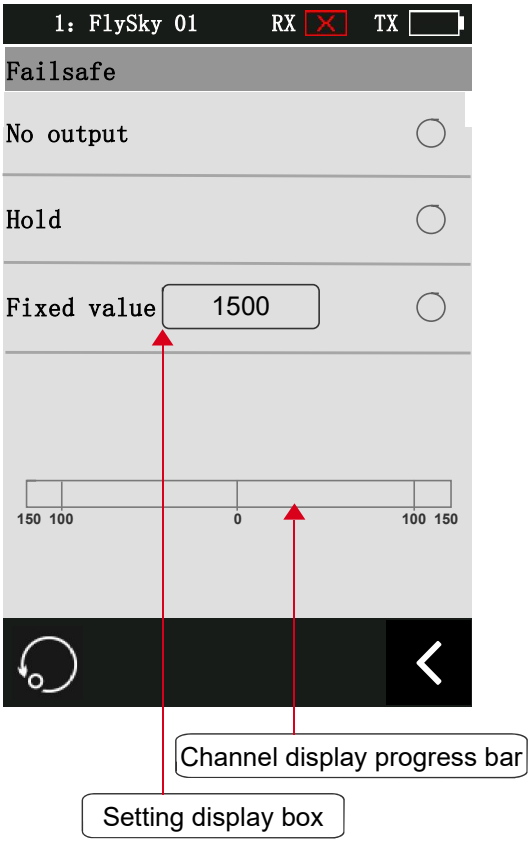
### Condition

1. Select "RX Setting" -> "Failsafe" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the current UI content.

### Details

1. **i-BUS out &PPM no output**
   1 Check: these two signals will enter no output state after they are out of control
   2 Unchecked: These two signals are output, and the channel data output after losing control will be affected by the specific Failsafe settings of each channel.
   3 Default: check

2. **Channel Failsafe Setting**
   1 Display the number of channels: 18 channels, the user interface will not be affected by other options.
   2 The number of channels actually sending out channel Failsafe information: affected by the "RX Setting" -> "Bind setting" -> "RF system" option, the number of channels selected will send out as many channel Failsafe messages.
   3 "1. Channel 1 (Aileron):" The setting result of the corresponding channel is displayed behind
   3.1 No output
   3.2 Keep
   3.3 1500 (setting result of fixed value)
   4 Click the corresponding channel to enter the "Channel Failsafe Settings" interface




## Channel Failsafe Setting

### Condition

1. Select "RX Setting" -> "Failsafe" -> "X Channel Failsafe Setting" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the UI content currently provided.

### Details

1 **Provide 3 options:**

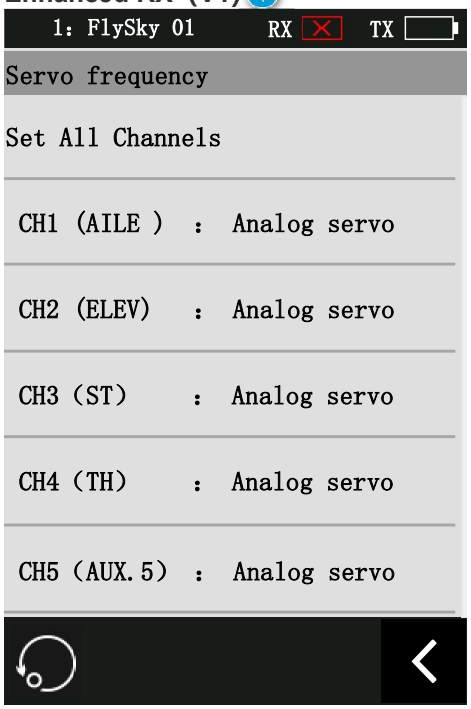
1 No output: the PWM corresponding to the channel is in no output state, and other signals with output remain in no output state

2 Keep: The PWM corresponding to this channel keeps the last output state, and other signals with output keep no output state

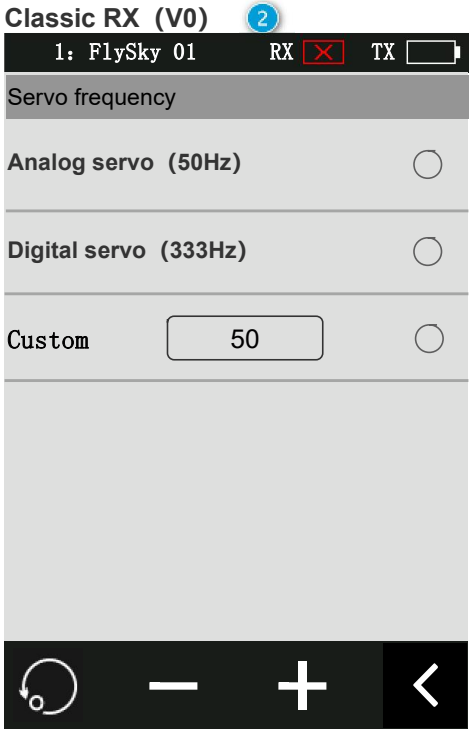
3 Fixed value: "Setting value display box" + "Channel display progress bar" displays the channel value corresponding to the channel in real time. Click Exit to save the current value as the setting.

4 Default: No output

**Enhanced RX (V1)** ①




**Classic RX (V0)** ②




## Servo frequency

### Condition

1. Select "RX Setting" -> "Servo frequency" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the current UI content.

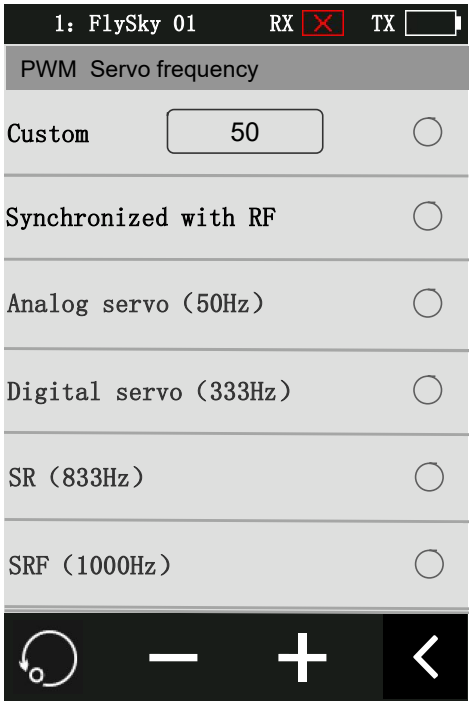
### Details

① **Enhanced RX (V1)**

1 Display the number of channels: 18 channels, the user interface will not be affected by other options.
1.2 The actual number of channels sending out channel Failsafe information: affected by the "RX Setting" -> "Bind setting" -> "RF system" option, the number of channels selected will send out as many channel PWM frequency information as possible.
2 Set all channels: Click to enter the "Channel Servo frequency setting" interface, set all channels to the same result
3 Single channel: Click to enter the "Channel Servo frequency setting" interface, set as the result of a single channel

② **Classic RX (V0)**

*Set as the result of PWM frequency of 18 channels, it is not possible to set the Servo frequency of a single channel
1 Simulated steering gear: 50Hz
2 Digital servo: 333Hz
3 Custom frequency: After selecting, there will be plus and minus symbols in the lower navigation bar,
3.1 Settable range: 50~400Hz, the default display 50Hz is selected in the factory state, and the subsequent modification settings save the displayed value
4 Default: analog servo




Channel Servo frequency

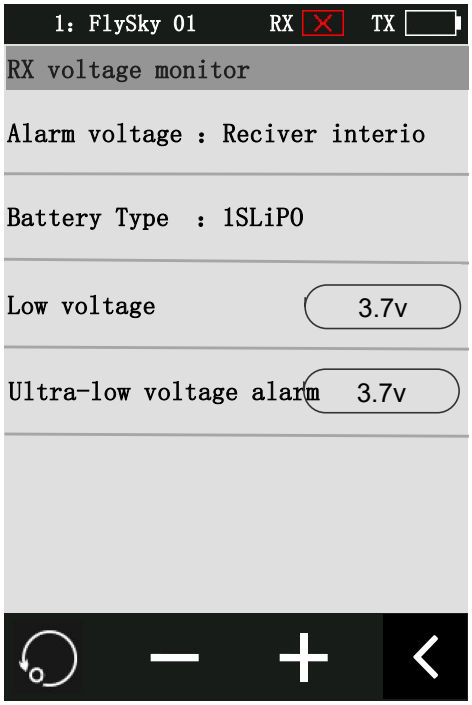
## Condition

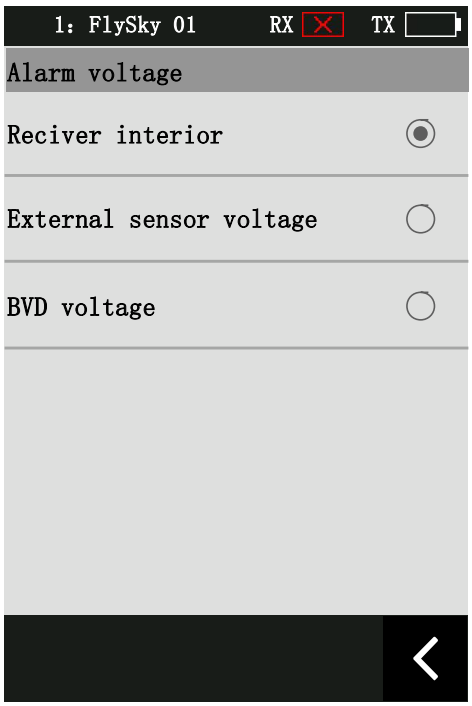
1. Select "RX Setting" -> "Servo frequency" -> "Channel Servo frequency setting" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the currently provided UI content .

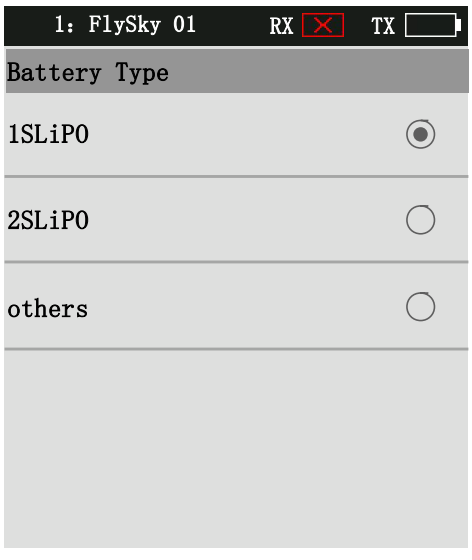
## Details

1 **Enhanced RX (V1)**

1 Custom frequency: After selecting, there will be a plus and minus symbol in the lower navigation bar,
1.1 Settable range: 50~400Hz, the default display 50Hz is selected in the factory state, and the subsequent modification settings save the displayed value
2 Synchronize with high frequency: you can choose to synchronize with high frequency or not
3 Simulated steering gear: 50Hz
4 Digital servo: 333Hz
5 SR: 833Hz
6 SRF: 1000Hz
7 Default: analog servo



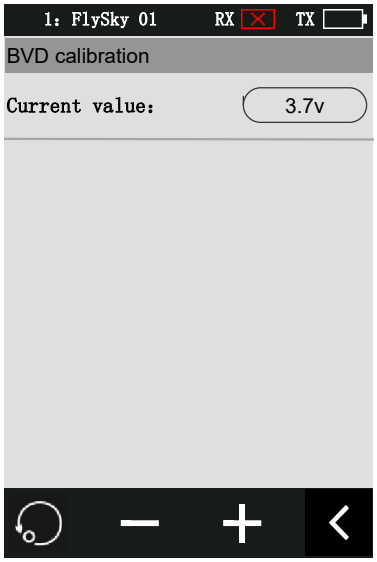

## Low signal voice alarm

### Condition

1. Select "RX Setting" -> "Low signal voice alarm" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the UI content currently provided.
2. Two-way communication with the receiver

### Details

1. *Please check the interface information reference
   1. The receiver sends back voltage information
   1.1 RX voltage
   1.2 BVD voltage (V1 receiver is exclusively used to measure the voltage of the model's power supply battery)
   1.3 i-BUS in sensor return voltage
   2. These returned voltage information can be used to set alarms for users. The interface currently provided is for reference only and will not be described too much. There can be more abundant settings in the open source firmware.




## BVD calibration

### Condition

1. Select "RX Setting" -> "BVD calibrati on" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the current UI content.
2. This function will only be available in the menu during two-way communication with Enhanced RX.

### Details

1 When entering the interface, if BVD voltage information is detected <=0.5V, the prompt box Picture 1 will pop up, and select "Exit" in the prompt box to return to the "RX Setting" interface

2. When entering the interface, if BVD voltage information is detected> 0.5V, the currently read BVD value will be displayed in the "Current Value" column, and the value can be adjusted by "+/-", click on Calibration

2.1 If you receive a reply from RX that the calibration is successful, the prompt box Picture 2 will be displayed

2.2 If you receive an RX reply that the calibration failed, the prompt box Picture 3 will be displayed

2.2.3 Calibration failure: If the calibration value provided to RX exceeds 1/2 to 2 times of the current detection value, the reply calibration will fail. If there is a problem in the communication process, TX will also fail to receive the reply timeout.

Picture 1

Please connect the positive pole of power supply to the detection port for recalibration !

Exit

Picture 2

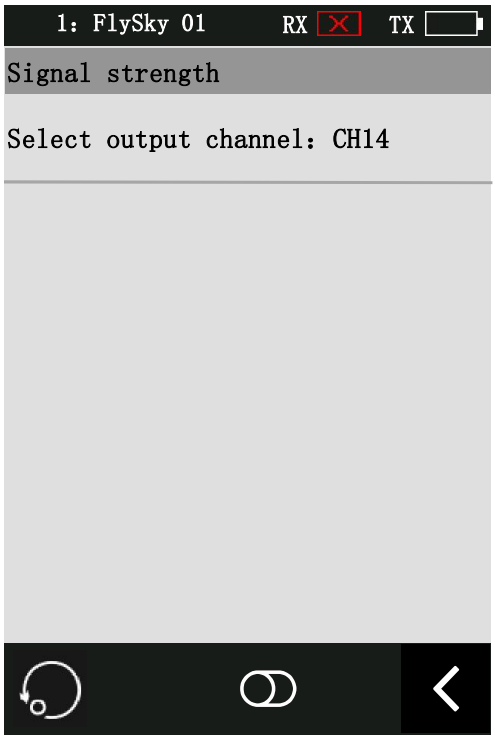
CALIBRATIon SUCCESSFUL

Exit

Picture 3

Calibration failed , setting value overrun or hardware problem , please check and try again !

Exit



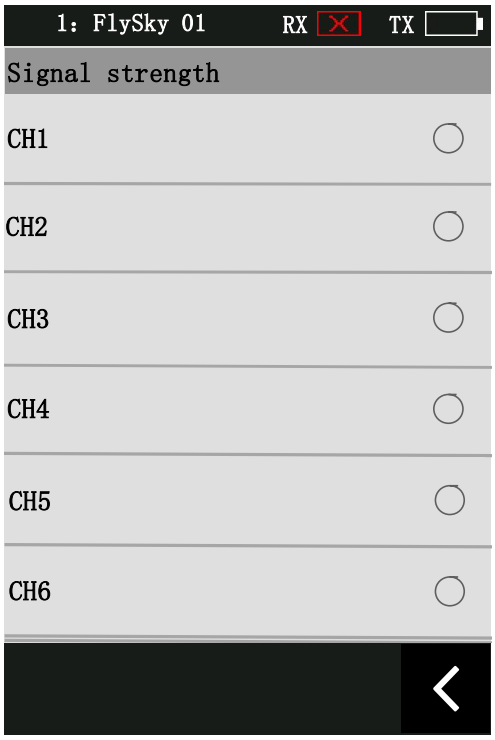

## Signal output

### Condition

1. Select "RX Setting" -> "Signal output" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the current UI content.

### Details

1 The bottom of the interface: function switch
1.1 If the function is turned off, all channels will output the corresponding channel value according to the channel information provided by the transmitter
1.2 If the function is turned on, the set channel will no longer output the corresponding channel value according to the channel information provided by the transmitter, but will output the model strength information received by the receiver through this channel (all signals of the receiver are output on this channel) Same information)
2 Click "Select output channel" to enter the "Select output channel" interface




## Select output channel

### Condition

1. Select "RX Setting" -> "Signal output" -> "Select output channel" function, and select "INRM301 (Inside)" in "RF Setting" -> "RF type" to display the UI content currently provided.

### Details

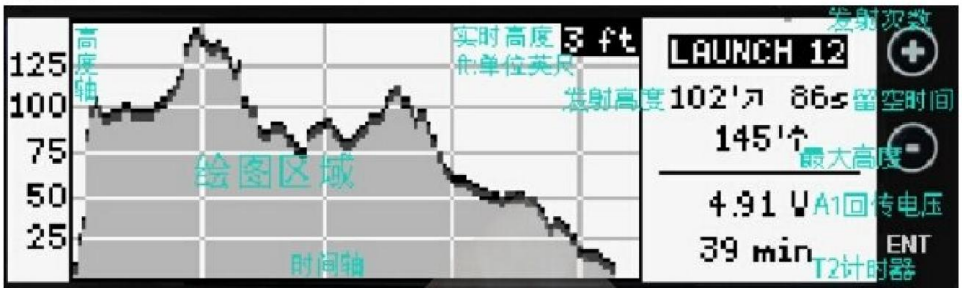
1. 1 Display 18 channels can be selected, not affected by other interface settings
   2 Default: 14 channel

# DLG Flight Graph

Version:2.1　2015-06-15

**简要说明**：此遥测脚本自动根据时间和高度实时数据生成图像。能够提供发射次数、发射高度、留空时间、最大高度、实时高度等数据，并且提供演示模式。**此脚本需要硬件支持**。

界面图示：



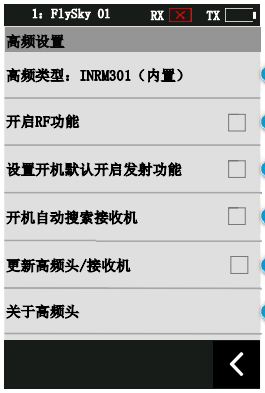
# 需求综述

## 一. 前置条件

无

## 二. 需求详情

1、界面相关需求一：高频设置——请查看相关界面描述页
2、界面相关需求二：接收机设置——请查看相关界面描述页
3、模型切换功能：
3.1 在INRM301（内置高频头）内最多个存储20/30/50组模型；
3.2 遥控器的模型设置需要和高频头的模型切换关联起来，并且做相应的界面设计解决用户切换模型的问题。
3.3 所有界面设置内容遥控器存储，切换模型后将设置信息发给高频头更新设置。
3.4




## 高频设置

一. 前置条件

1、点击进入高频设置界面，且在"高频类型"->"高频类型"中选择"INRM301（内置）"则显示当前提供的UI内容。

二. 需求详情

概述：用于对内置FRM301高频头进行设置；

*方框内打勾表示：功能开启；
*方框内不打勾表示：功能关闭
*TXRF表示：高频头

1. 1、高频类型：点击后进入“高频类型”选择界面

2. 1、开启RF功能：选择开启或关闭
   1.1 选择开启RF：高频发射
   1.2 选择关闭RF：高频不发射
   1.3 出厂默认：开启
   *高频发射与否不影响用户的设置界面。
   *由“高频开启”切换为“高频关闭”如当前TX与RX双向通信中，弹窗提示图6

3. 1、设置开机默认开启发射功能：选择开启或关闭
   1.1 开启：开机过程不再提示图1，开机后高频就发射
   1.2 关闭：开机过程提示图1，开机后是否发射根据用户设置
   1.3 出厂默认：关闭

4. 1、开机自动搜索接收机：选择开启或关闭
   1.1 开启：在完成开机后，进行搜索接收机操作，提示图2，
   1.2 关闭：在完成开机后，不进行搜索接收机操作
   1.3自动搜索接收机操作逻辑请查看图3
   1.3.1 某一步成功则停留在某一步对应的“TXRF模型”，显示主界面
   1.3.2 用户进行点击"退出"停止循环，显示主界面，
   1.3.3 如无以上两步触发，保持显示图2
   *每一步的停留市场同FRM303该功能设定时长
   1.4 出厂默认：开启

5. 1、更新高频头/接收机：点击后弹窗提示图4
   1.1 勾选：TypeC接口连接INRM303高频头
   1.2 不勾选：TypeC接口连接EL18内部
   1.3 出厂默认：勾选

6. 1、关于高频：点击后弹窗提示图5

图1

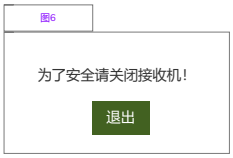

图2


图3


图4


图5


图6




## 高频类型

一. 前置条件

1、选择高频设置->高频类型，进入该界面

二. 需求详情

概述：切换高频类型选项；

1、用户操作

1.1 圆变实心表示：选中；
圆变空心表示：非选中

1.2 该界面仅可选中1项，选中1项则之前选中的取消“选中”变为“非选中”

1.3 切换选项时提示图1

1.4 如当前TX与RX双向通信中，切换选项弹窗提示图2，则不显示图1

1.5 出厂默认：INRM301

2、功能影响：该界面的选择影响“高频设置”界面的显示内容，仅在选择“INRM301（内置）”时，“高频设置”界面显示当前提供的UI内容。

图1

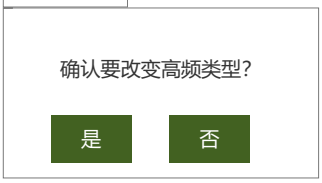
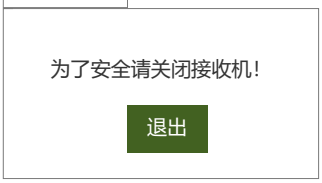



图2




经典版接收机（V0）双向通信功能：1


经典版接收机（V0）单向功能：2



增强版接收机（V1）双向通信功能：3


增强版接收机（V1）单向功能：4


接收机设置

一. 前置条件

1、选择"接收机设置"功能，且在"高频设置"->"高频类型"中选择"INRM301（内置）"则显示当前提供的UI内容。

二. 需求详情

1 **经典版接收机（V0）双向功能：**

1、前置条件：在“接收机设置”->“对码设置”中选择“Classic 18ch”或“C-Fast 10CH”，且勾选“双向通信”。

*该界面下描述“低信号语音报警”、“关于接收机”功能，其他功能点击功能选项进入下一级界面描述。

2、低信号语音报警：

开启：当收到高频头提供的信息“信号强度”≤30，进行语音播报，播报内容可用户设置，默认播报内容可参考PL18，如需要可提供语音资料。

出厂默认：开启

3、关于接收机：点击弹窗提示图1

2 **经典版接收机（V0）单向功能：**

1、前置条件：在“接收机设置”->“对码设置”中选择“Classic 18ch”或“C-Fast 10CH”，且不勾选“双向通信”。

*功能点击功能选项进入下一级界面描述。

3 **增强版接收机（V1）双向通信功能：**

1、前置条件：在“接收机设置”->“对码设置”中选择“Routine 18ch”、“Lora 12ch”或“Fast 8CH”，且勾选“双向通信”

2、低信号语音报警：

开启：当收到高频头提供的信息“信号强度”≤30，进行语音播报，播报内容可用户设置，默认播报内容可参考PL18，如需要可提供语音资料。

出厂默认：开启

3、关于接收机：点击弹窗提示图1

4 **1、增强版接收机（V1）单向功能：**

1、前置条件：在“接收机设置”->“对码设置”中选择“Routine 18ch”、“Lora 12ch”或“Fast 8CH”，且不勾选“双向通信”。

*功能点击功能选项进入下一级界面描述。

图1


## 接收机设置

### 一. 前置条件

1、选择"接收机设置"->"对码设置"功能，且在"高频设置"->"高频类型"中选择"INRM301（内置）"则显示当前提供的UI内容。

### 二. 需求详情

1 **RF系统：**

1 如当前TX与RX双向通信中。切换RF系统，弹窗提示图1
2 如当前TX与RX非双向通信中，切换RF系统，弹窗提示图2
3 出厂默认：C-Fast 10CH
4 、经典版接收机（V0）
4.1 用户可选择“Classic 18ch”或“C-Fast 10CH”
5、增强版接收机（V1）
5.1 用户可选择“Routine 18ch”、“Lora 12ch”或“Fast 8CH”

2 **双向通信：**

1 如当前TX与RX双向通信中。切换开启/关闭，弹窗提示图1
2 如当前TX与RX非双向通信中，切换开启/关闭，弹窗提示图2
3 出厂默认：“双向通信”勾选

3 **对码：**

1 如当前TX与RX双向通信中。点击对码，弹窗提示图5
2 如当前TX与RX非双向通信中，
2.1 “经典版接收机（V0）”点击“对码”，弹窗提示图3
2.2 “增强版接收机（V1）”点击“对码”，弹窗提示图4
3、提示框下点击“是”，进入“对码中界面”如图6
3.1 如单向，需要用户手动点击“返回”按钮退出该界面，回到“对码设置”界面。
3.2 如双向，对码成功，显示“对码成功”界面1.5s，再自动回到“对码设置”界面

图1

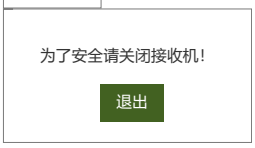



图2

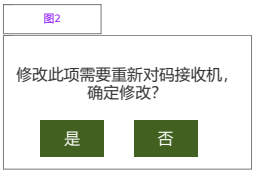



图3


图4


图5

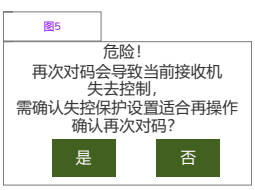
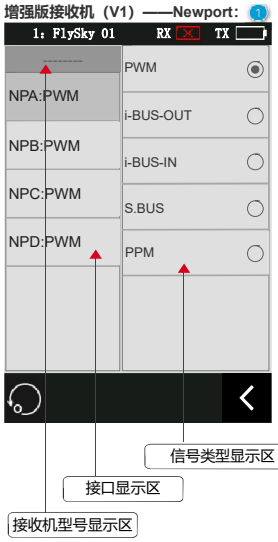
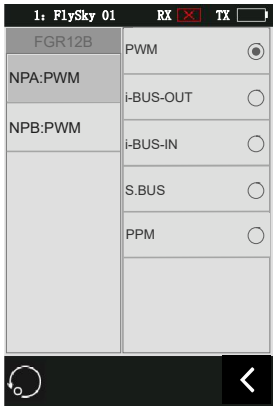



图6

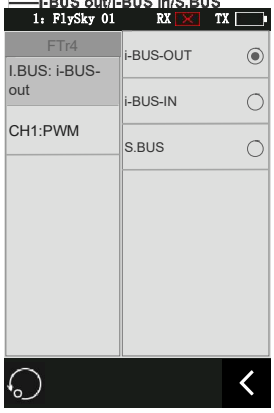

图7

增强版接收机（V1）——Newport：

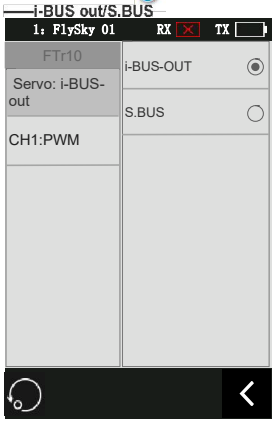


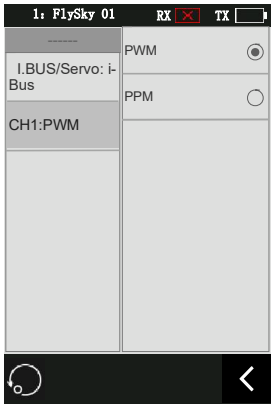

经典版接收机（V0）
——i-BUS out/i-BUS in/S.BUS




经典版接收机（V0）
——i-BUS out/S.BUS




经典版接收机（V0）
——PWM/PPM




## 自定义接口协议

一. 前置条件

1、选择"接收机设置"->"自定义接口协议"功能，且在"高频设置"->"高频类型"中选择"INRM301（内置）"则显示当前提供的UI内容。

二. 需求详情

**1 增强版接收机（V1）**

**1 接收机型号显示区域**

1.1 双向与RX通信中，该区域显示RX型号：如FTr12B

1.2 否在该区域显示 "-----"

**2 接口显示区**

2.1 TX获取RX Newprot数量，显示对应的数量

2.2 如尚未与RX双向通信，无法获取，则显示 "NPA"、 "NPB"、 "NPC"、 "NPD"

2.3 "NPA： "后面显示信号类型选项

**3 信号类型显示区**

3.1 信号显示规则

3.1.1 PWM信号可以多个Newport重复选择

3.1.2 i-BUS out多个Newport只能选择1个，如其中一个Newport选择了，其他Newport接口则不再显示该选项

3.1.2 i-BUS in多个Newport只能选择1个，如其中一个Newport选择了，其他Newport接口则不再显示该选项

3.1.2 S.BUS多个Newport只能选择1个，如其中一个Newport选择了，其他Newport接口则不再显示该选项

3.1.2 PPM多个Newport只能选择1个，如其中一个Newport选择了，其他Newport接口则不再显示该选项

3.2 出厂默认：PWM

3.3 切换到 "i-BUS out" 或 "i-BUS in" 选项时弹窗提示图1

**2 经典版接收机（V0）——i-BUS out/i-BUS in/S.BUS**

针对V0-1个接口RX（1个接口切换i-BUS in、i-BUS out、s.bus的接收机，如：FTr4）

**1 接收机型号显示区域**

1.1 双向与RX通信中，该区域显示RX型号：如FTr4

1.2 否则该区域显示 "-----"

**2 接口显示区**

2.1 " i-BUS： "后面显示用户选择选项

**3 信号类型显示区**

3.1 由于对码时无法区分 "V0-1个接口RX"、 "V0-2个接口RX"、对码时统一按照 "V0-2个接口RX" 发送命令，

3.2 对码成功后，如双向正常通信，获取到RX所支持的接口类型，再显示对应的切换选项，

3.3 对码成功后，如非双向通信，保持只能显示 "V0-2个接口RX" 的设置内容

3.4 出厂默认：i-BUS out

3.5 切换到 "i-BUS out" 或 "i-BUS in" 选项时弹窗提示图1

**3 经典版接收机（V0）——i-BUS out/sS.BUS**

针对V0-2个接口RX（其中一个接口可切换i-BUS out、s.bus，另一个接口i-BUS in的接收机，如：FTr10）

**1 接收机型号显示区域**

1.1 双向与RX通信中，该区域显示RX型号：如FTr10

1.2 否则该区域显示 "-----"

**2 接口显示区**

2.1 " i-BUS： "后面显示用户选择选项

**3 信号类型显示区**

3.1 由于对码时无法区分 "V0-1个接口RX"、 "V0-2个接口RX"、对码时统一按照 "V0-2个接口RX" 发送命令，

3.2 对码成功后，如双向正常通信，获取到RX所支持的接口类型，再显示对应的切换选项，

3.3 对码成功后，如非双向通信，保持只能显示 "V0-2个接口RX" 的设置内容

3.4 出厂默认：i-BUS out

3.5 切换到 "i-BUS out" 或 "i-BUS in" 选项时弹窗提示图1

**4 经典版接收机（V0）——PWM/PPM:**

**1 接收机型号显示区域**

1.1 双向与RX通信中，该区域显示RX型号：如FTr10

1.2 否则该区域显示 "-----"

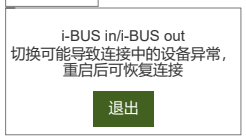
**2 接口显示区**

2.1 " CH1： "后面显示用户选择选项

**3 信号类型显示区**

2.2 提供两个选项选择 "PWM" "PPM"

图1




## 失控保护

### 一. 前置条件

1、选择“接收机设置”->"失控保护"功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。

### 二. 需求详情

1 **设置i-BUS out &PPM信号无输出**

1 勾选：这两种信号失控后进入无输出状态

2 不勾选：这两种信号为有输出，失控后的通道数据输出收到具体各通道失控保护设置影响。

3 出厂默认：勾选

2 **各通道失控保护设置**

1 显示通道的数量：18通道，不会因为其他选项而影响用户界面。

2 实际发出通道失控保护信息的通道数量：由“接收机设置”->“对码设置”->“RF系统”选项影响，选择的多少通道数就发出多少个通道失控保护信息。

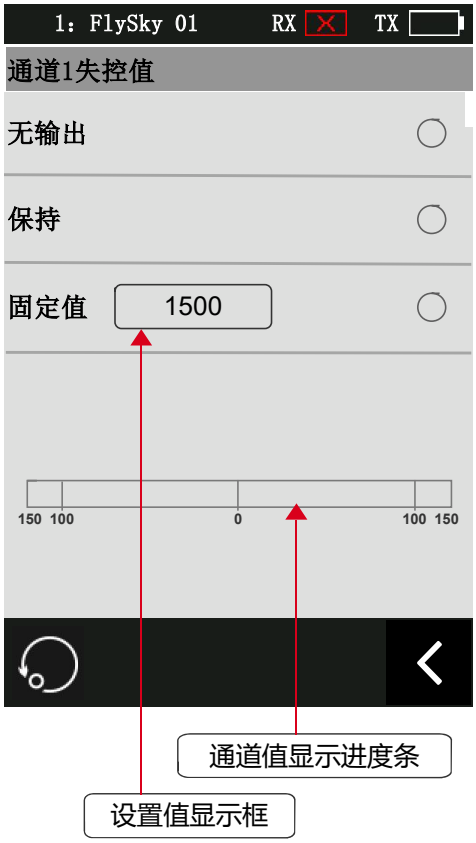
3 “1、通道1（副翼）：”后面显示对应通道的设置结果

3.1 无输出

3.2 保持

3.3 1500（固定值的设置结果）

4 点击对应通道进入“通道失控保护设置”界面




## 通道失控保护设置

### 一. 前置条件

1、选择“接收机设置”->"失控保护"->“X通道失控保护设置”功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。

### 二. 需求详情

1 **提供3个选项：**

1 无输出：该通道对应的PWM为无输出状态，其他有输出的信号则保持无输出状态

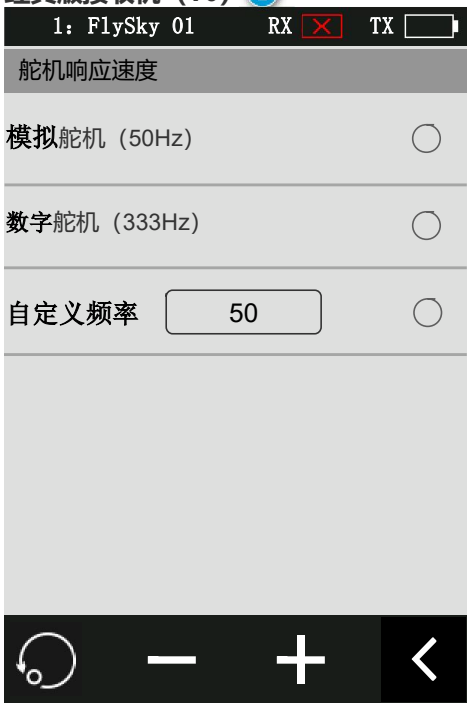
2 保持：该通道对应的PWM为保持最后输出状态，其他有输出的信号则保持无输出状态

3 固定值：“设置值显示框”+“通道值显示进度条”实时显示该通道对应的通道值，点击退出则保存当前值作为设置。

3 出厂默认：无输出

增强版接收机（V1）


经典版接收机（V0）




## 舵机响应速度

### 一. 前置条件

1、选择“接收机设置”->"舵机响应速度"功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。

### 二. 需求详情

**增强版接收机（V1）**

1 显示通道的数量：18通道，不会因为其他选项而影响用户界面。

1.2 实际发出通道失控保护信息的通道数量：由“接收机设置”->“对码设置”->“RF系统”选项影响，选择的多少通道数就发出多少个通道PWM频率信息。

2 设置所有通道：点击进入“通道舵机响应速度设置”界面，设置为所有通道为同样的结果

3 单个通道：点击进入“通道舵机响应速度设置”界面，设置为单个通道的结果

**经典版接收机（V0）**

*设置为18个通道的PWM频率结果，不可设置单个通道的舵机响应速度

1 模拟舵机：50Hz

2 数字舵机：333Hz

3 自定义频率：选中后下方导航栏出现加减符号，

3.1 可设置范围：50~400Hz，出厂状态选中默认显示50Hz，后续修改设置保存显示值

4 出厂默认：模拟舵机


## 通道舵机响应速度设置

### 一. 前置条件

1、选择“接收机设置”->"舵机响应速度"->“通道舵机响应速度设置”功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。

### 二. 需求详情

1 **增强版接收机（V1）**

1 自定义频率：选中后下方导航栏出现加减符号，

1.1 可设置范围：50~400Hz，出厂状态选中默认显示50Hz，后续修改设置保存显示值

2 与高频同步：可以选择与高频同步/不同步

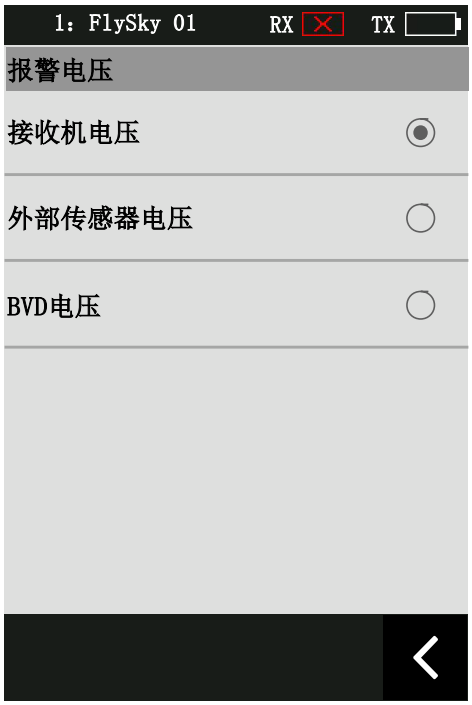
3 模拟舵机：50Hz

4 数字舵机：333Hz

5 SR：833Hz

6 SRF：1000Hz

4 出厂默认：模拟舵机



## 低电压语音报警

### 一. 前置条件

1、选择“接收机设置”->"低电压语音报警”功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。
2、与接收机双向通信

### 二. 需求详情

1 *请查看界面信息参考
1、接收机端回传电压信息
1.1 RX电压
1.2 BVD电压（V1接收机专有用于测量模型供电电池电压）
1.3 i-BUS in传感器回传电压

2、这些回传的电压信息可以用于给用户设置报警，当前提供的界面仅供参考，不再做过多描述，在开源固件中可以有更多丰富的设置内容。


BVD电压校准

一. 前置条件

1、选择“接收机设置”->"BVD电压校准"功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。
2、与增强版接收机双向通信中菜单才会有该项功能。

二. 需求详情

1 进入界面如检测到BVD电压信息<=0.5V，弹窗提示框图1，选中提示框中的“退出”则返回“接收机设置”界面
2、进入界面如检测到BVD电压信息>0.5V，将当前读取到的BVD值显示在“当前值”一栏中，“+/-”可以调整输出，点击校准
2.1 如收到RX回复校准成功，则显示提示框图2
2.2 如收到RX回复校准失败，则显示提示框图3
2.2.3 校准失败：如提供给RX的校准值超过当前检测值1/2至2倍之间，则回复校准失败，如通信过程出现问题，TX收到回复超时也会失败。

图1

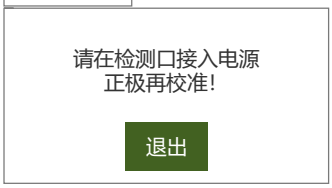
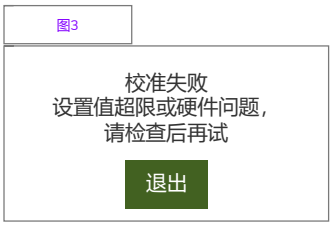



图2


图3




# 信号强度输出设置

## 一. 前置条件

1、选择“接收机设置”->"信号强度输出设置"功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。

## 二. 需求详情

1 界面底部：功能开关

1.1 如功能关闭，这所有通道都按照发射机提供的通道信息输出对应的通道值

1.2 如功能开启，被设置的通道不再按照发射机提供的通道信息输出对应的通道值，而是将接收机收到的型号强度信息通过该通道输出（接收机所有的信号的该通道都输出同样信息）

2 点击“选择输出通道”进入“选择输出通道” 界面


选择输出通道

## 一. 前置条件

1、选择“接收机设置”->"信号强度输出设置"->"选择输出通道"功能，且在“高频设置”->“高频类型”中选择“INRM301（内置）”则显示当前提供的UI内容。

## 二. 需求详情

1 显示18个通道可以选择，并不受到其他界面设置影响
2 出厂默认：14通道

# DLG Flight Graph

Version:2.1　2015-06-15

**简要说明**：此遥测脚本自动根据时间和高度实时数据生成图像。能够提供发射次数、发射高度、留空时间、最大高度、实时高度等数据，并且提供演示模式。**此脚本需要硬件支持**。

界面图示：