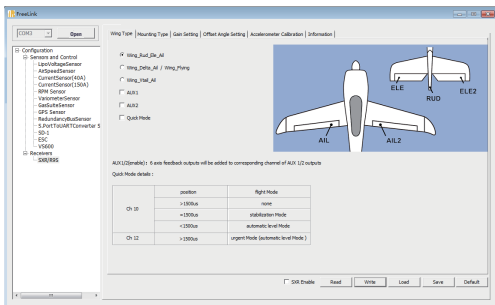


The menu screen on the home page is displayed below:

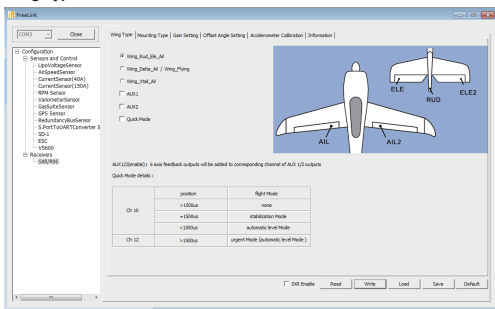


1. Open: Gives the PC software access to S6R/S8R configuration data.
2. Read: Retrieves the stored S6R/S8R data to be edited in the PC software.
3. Write: Stores the setted data on S6R/S8R.
4. Load: restore the settings into the file you saved before.
5. Save: save all settings to one file.
6. Default: Returns all PC software settings to the factory defaults.
7. SXR Enable: Enable/Disable the stabilization function

Configuration parameters

The configuration parameters are listed on the top of the interface: Wing type, Mounting Type, Gain Setting, Offset Angle Setting, Accelerometer Calibration

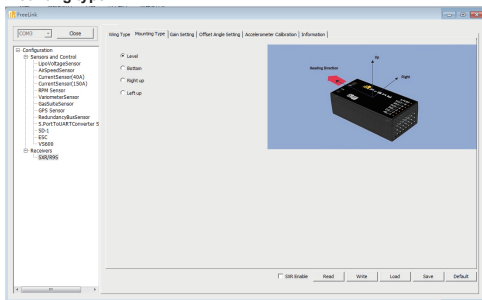
Wing Type



Options of wing types: Wing_Rud_Ele_Ail——conventional model
Wing_Delta_Ail/Wing_Flying——Delta/Flying wing
Wing_Vtail_Ail——V-Tail

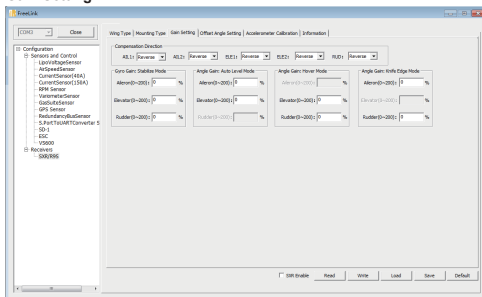
AUX1: If selected, AIL2 function will be disabled on CH5
AUX2: If selected, ELE2 function will be disabled on CH6

Mounting type



Level, Bottom, Right and Left up options are available.

Gain Setting



The first part

Compensation direction: selecting the travel direction of AIL, AIL2, ELE, ELE2 and RUD. "+" means positive and "-" means negative.

The second part

Gyro gain: Stabilization Mode

The gain setting under stabilization mode should be set on the channels related to aileron, elevator and rudder.

Angle Gain: Auto Level Mode

The gain setting under automatic level mode could be set on the channels related to aileron and elevator.

Angle Gain: Hover Mode

The gain setting under hover mode could be set on the channels related to elevator and rudder.

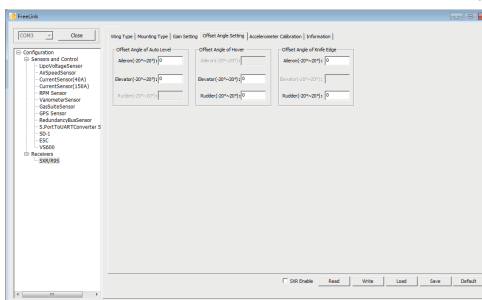
Angle Gain: Knife Edge Mode

The gain setting under knife edge mode could be set on the channels related to aileron and rudder.

Note: Optional range is from 0 to 200%. 0, 1, 2 refers to 0%, 100% and 200% respectively.

Offset Angle Setting

Due to the possible errors in minor installation and calibration, the function is designed to adjust the attitude of the model. Thus, the user could achieve the best orientation when Auto Level, Hover mode and Knife-edge mode is activated.



Offset Angle of Auto Level

The angle of roll and pitch could be adjusted on the channels related to aileron and elevator. Straight and Level flight could be realized.

Offset Angle of Hover

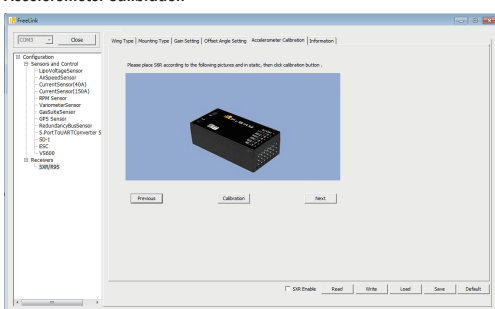
The nose-up angle could be adjusted on the channels related to aileron and elevator. Stationary hover could be realized in calm weather.

Offset Angle of Knife Edge

The angle of aileron and rudder could be adjusted on the related channels. Straight and level knife-edge flight could be realized.

Note: Optional range is from -20° to 20°.

Accelerometer Calibration

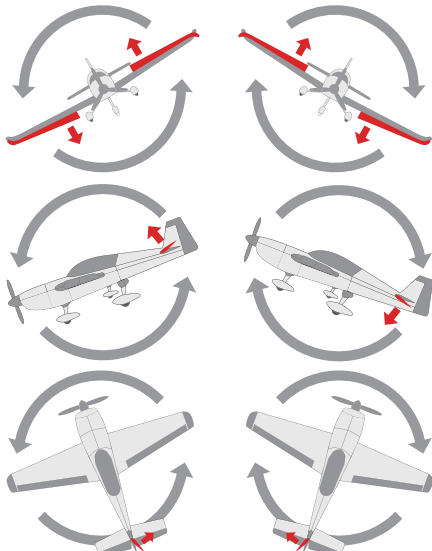


- The positive and negative values related to three-axis gyroscope and accelerometer make a total of six values that need to be acquired. Please follow the on-screen instructions.
- Click the "Calibration" button and wait until the YELLOW LED flashing, indicating the calibration on this orientation has been completed.
 - Repeat the above step five times (remaining 5 dimensions). Placing S6R/S8R in the required orientation, ensure all values (X, Y, Z, Mod) are displaying 1.000 with the deviation of ± 0.1 .
 - Press "Write" to save the data on S6R/S8R when done.

Inspection of flight attitude

To ensure flight safety, checking the compensation direction of the model is strongly recommended.

Activating auto level mode will produce a strong deflection on AIL and ELE, which is used to check the response of aileron and elevator. Also, activating Knife-edge and Hover mode will have the same reaction on the rudder.



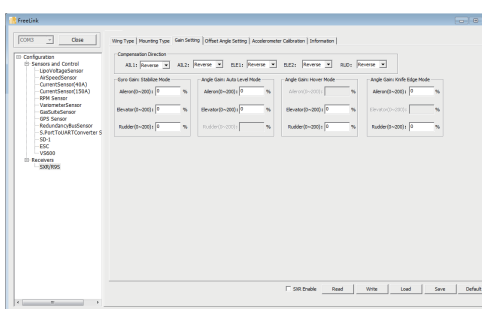
When the plane is rotated left or right (Roll), ailerons should have the correcting actions as illustrated above.

When the plane is rotated up or down (Pitch), elevators should have the correcting actions as illustrated above.

When the plane is rotated to left or right (Yaw), rudders should have the correcting actions as illustrated above.

After changing the compensation direction, make sure to check it again on the actual model.

Note: If the compensation direction is incorrect, please reverse the corresponding channel as illustrated below.



Self-check

Attentions

- Before self-check, please place the model on the ground (level surface).
- When the model is flying, aerodynamic balance is more important than level attitude, which results in that the model flies at a constant altitude with the nose slightly pointing up at low speed. To avoid the nose-diving of the model at high air speed, the user must insure that the model is placed at a level or slightly-nose-up attitude during self-check.
- Always install S6R/S8R straight and level in the model. If required, PC software could be used to adjust the angle of attack with the purpose of realizing the required setting. If the values set by the user is bigger than average ones, we advise to recheck the installation orientation of S6R/S8R.

Steps

- Turn on the transmitter and ensure that Ail (CH1), ELE (CH2), RUD (CH4), AIL 2(CH5) and ELE (CH6) are in the neutral position.
- Power on the model and start S6R/S8R self-check. Ensure the auto level angle of the gyro and the neutral position of gimbal. Please don't touch/move the model until self-check finishes, or it may corrupt the calibration settings created during the procedure.
- Move the three-position sticks bound to CH12 three times in 3 seconds (up, mid, down). Then the BLUE LED will turn on, indicating self-check procedure is initiated. After that, the corresponding parts on the model will move. At last, the BLUE LED will turn off, indicating self-check has completed.
- Move the sticks bound to CH1~CH6 (except the stick related to Thr) and check the channel output limits, ensuring that the signal outputs of S6R/S8R will not damage the corresponding parts on the model. In the end, S6R/S8R will save the zero points of the gyro, auto level angle, gimbal neutral position and servo channel limits.

Never operate the stick bound to CH12 during flight session. If so, it will trigger self-check and may cause the crash of the model.

Setup

- Calibrate S6R/S8R with the PC software and install it into the model. Insure the settings of wing type and mounting type are identical to the intended model installation.
- Turn on the transmitter and reduce the value of servo endpoint setting. Ensure self-check mode will not damage the corresponding parts on the model.
- Assign a knob/slider to CH9, then real-time gain adjustment capabilities of S6R/S8R will be activated.
- Assign three-position switches to CH10 and CH11 with the purpose of switching available flight modes.
- Power on the model and check the deflection direction of each related parts on the model. Make sure the switch assigned to flight modes is correct and the compensation direction of the gyro is set as intended on AIL, RUD and ELE.
- Make a self-check for S6R/S8R if necessary. Disconnecting the power on S6R/S8R will not lose the set parameters.

Under identical operating conditions, the value of each channel produced by the assigned switch in FrOS are opposite to that in OpenTX. For example, SW Up in FrOS is equal to SW Down in OpenTX.

FrSky is continuously adding features and improvements to our products. To get the most from your product, please check the download section of the FrSky website www.frsky-rc.com for the latest update firmware and manuals