SPARROW FC

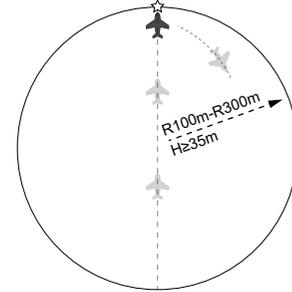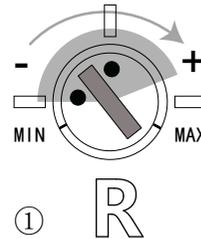| STAB	auto level
AltHold	Aircraft hold altitude
Fence	Beyond the fence, trigger the RTH mode
RTH	Return to home
Manual	Remote control directly controls the aircraft

Flight Model LED

ON ——————— **STAB**

FLASH —— disconnect GPS or low satellites —— **AltHold**

GPS on —— knob R**<**MAX —— **Fence**

knob R**=**MAX —— **RTH**

OFF ——————— **Manual**
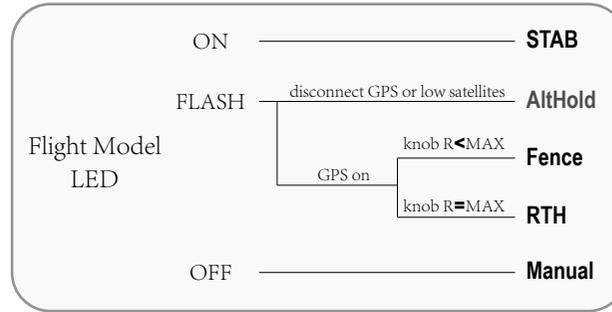
G P S LED	ON	GPS OK
	FLASH	LOW
	OFF	DISCONNECT

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AIL
ELE
THR
RUD

RC/GPS

SPARROW

FUNC BUTTOM

FENCE RADIUSE / SELECT RTH MODE

ELE GAIN / DIRECTION

AIL GAIN / DIRECTION

[model/state LED]

GPS LED

△ wing
∨ V Tail
⊤ T Tail

Install Direction
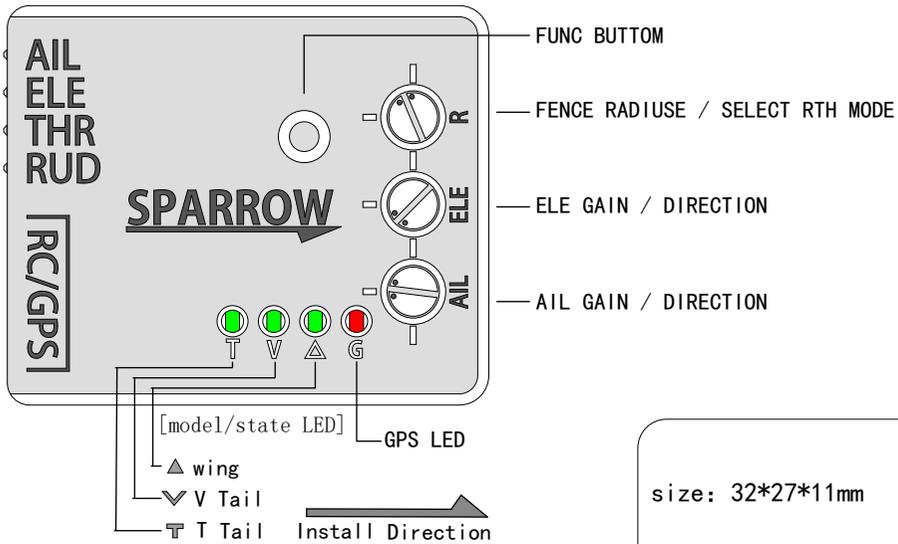
size: 32*27*11mm

weight: FC 12g, GPS 15g

receiver type: PWM

R knob

Fence Mode
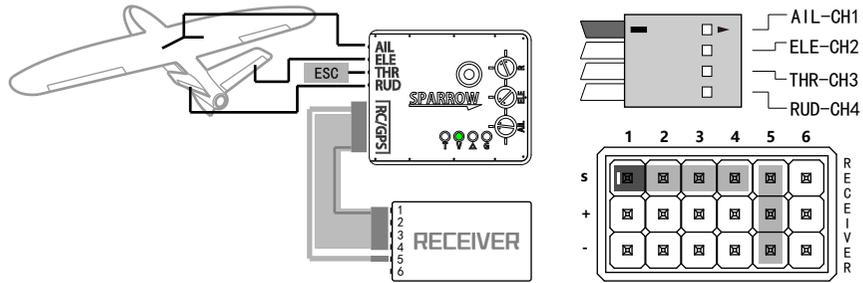
R100m-R300m
H≥35m

① R

The minimum height of the aircraft is limited to 35m.
Trigger the fence limit, the plane will go home
(switch to RTH Mode); flip sticks cancel RTH Mode
and then enter the fence again. fence radius 100m-300m,
adjusted by knob R.

MIN   MAX

RTH Mode

R50m
H100m

② R

MIN   MAX
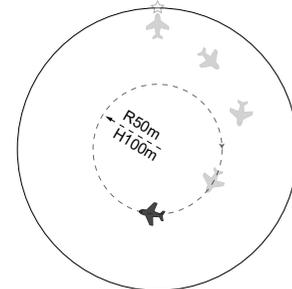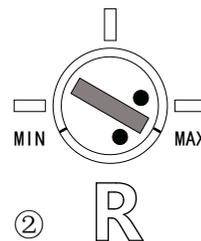
The radius of cycle is 50m, Height hold at 100m.

Set

AIL—CH1
ELE—CH2
THR—CH3
RUD—CH4

How to Wiring

Please connect the 4P line (AIL, ELE, THR, RUD) and the 3P line (flight mode channel) to the receiver as shown in the figure.
The RC sets the three-section switch corresponding to the mode channel.

⚠ **before debugging, you should do…**
① Install FC level in the plan, point the arrow at the direction of the nose
② remove the propeller, and hold the RC throttle stick low

AirFrame Type

If the Mode led is off, switch mode, when the Mode led is always on or flashing, you can set the model.
Press and hold the setting button for at least 1 second, then release. The currently on or flashing Mode led will jump to other
model, indicating that it has been switched to the corresponding marked model. Repeat this operation to select the desired model.

Remote Control

Calibrate RC

Reset all channel position, press and hold the setting button for 3 seconds, then release.
After a few seconds, the ail servo will swing up and down to indicate that the calibrate is successful.

⚠ *Recalibration is required each time the remote control is replaced
*If all green leds are flashing at the same time during calibration, there are two possible situations:
①RC channel THR, AIL or ELE has a big trim.
②THR channel not at the 0 throttle position.

Calibrate ESC

Step1: disconnect battery
Step2: switch to MANUAL mode, throttle up.
Step3: connect battery
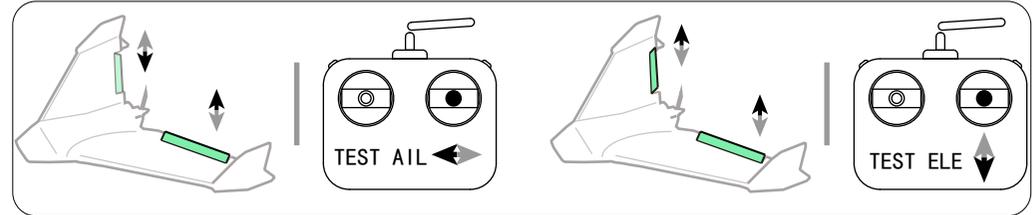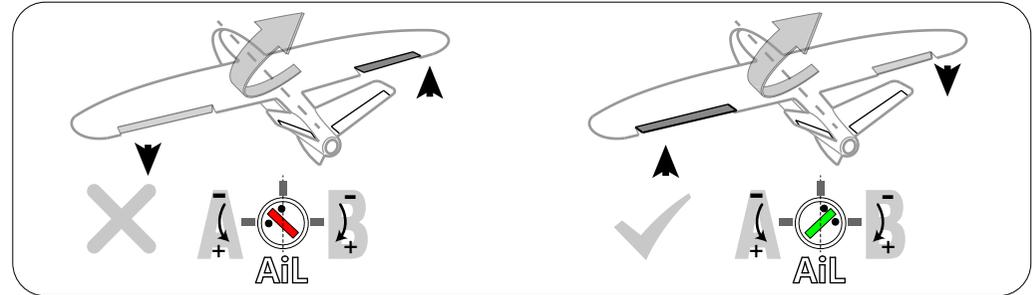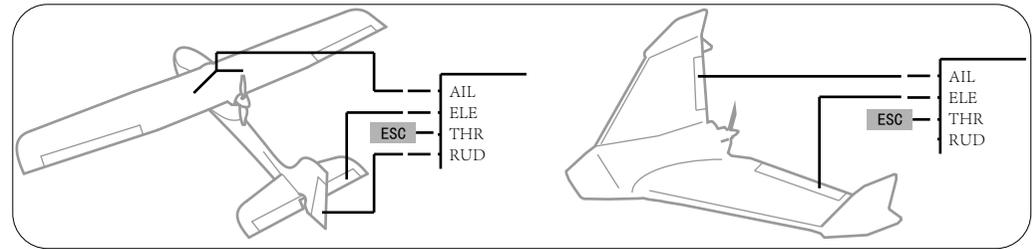done

Calibrate Level

Step1: keep plain level.

Step2:
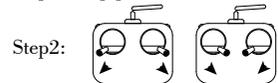
Step3: hold on until all green led are flashing, release sticks.
Step4: all green led stop flashing, calibrate done.

ARMING

GPS \ LED	on	flash or off
CONNECT	ARM	DISARM
DISCONNECT	ARM	ARM

*IN MANUAL mode, you can always control throttle.

Test

TEST AIL ◄

TEST ELE ↕

FAQ

Q: Power on, motor always beep like "di—di—di---

A: Calibrate RC or calibrate ESC

Q: AltHold mode, Fence mode, RTH mode, how to control throttle.

A: AltHold mode and Fence mode control throttle by yourself; RTH mode controlled by Flight controller.

Q: servo flap in RTH mode

A: switch to RTH mode on the ground, servo would irregular swing, this is ok.