

FTM30 RADIO MODULE USER MANUAL



V1.1

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Thank you for purchasing SIYI Technology's products.

FM30 Radio Module is based on SIYI Tech's industry-level radio frequency technology, accumulated for years. The built-in Bluetooth function supports outdoor wireless FC settings and real-time flight status monitoring. The module is tiny and compatible with standard JR slot. FM30 also supports multiple signal input and communication protocols, users will have an unprecedented experience of manipulating their model craft, exploring range limits, and having fun.

To maintain a safe and orderly public space and to ensure you a good using experience of FM30 radio module, please read this manual carefully. If you have any issues using the product, please consult the manual or check online pages of FM30 on SIYI official website (<http://en.siyi.biz/>). You can also send an email to SIYI official A/S center (support@siyi.biz).

SIYI User Group - Facebook



SIYI YouTube Channel (<https://www.youtube.com/channel/UC0vdyQDSRr3fiCffNKnYimA>)

SIYI Official Aliexpress Store (https://www.aliexpress.com/store/911142095?spm=a2g0o.store_home.1000001.11.22595727131Low)


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1 READ TIPS

1.1 Icons

Please pay more attention to content indicated with the following marks:

 **DANGER** Dangerous manipulation that probably leads to human injuries.

 **WARNING** Warnings on manipulation that possibly leads to human injuries.


 **CAUTION** Cautions on what manipulation may lead to property loss.


 **Prohibited**  **Mandatory**  **Mark**


1.2 Safety


FM30 Radio Module is designed for hobbyists, users who approaches to the device should have at least the basic knowledge to operate it. Irregular or irresponsible manipulations to the device may cause damage, property loss, or human injuries. Users under 14 years' old should follow an experienced trainer's guide. Disassembling or modification to the system is prohibited without permission from its manufacturer, SIYI Technology.

To maintain a safe and orderly public space and to ensure you a good using experience of SIYI's products, please read the prohibited and mandatory terms carefully.


 Do not use any SIYI radio system to operate your aircraft/vehicle/model at places with intensive crowd (a square, a park), or at places with many obstructions (a street, a parking lot), or in fields with strong magnetic or interference (an electricity plant, a radar station, railways), or in any other fields where an irregular flight/operation may cause property loss or human injuries.


 Do not hold or cover transmitter antenna or obstruct its transmission by any means in a flight or an operation.


 Never point your transmitter antenna's upper ends straightly to your aircraft/vehicle while it is working, they are the weakest parts for transmission.

 Do not start your aircraft/vehicle/model when you are tired, drunk, in sickness or any circumstances you are not feeling good.

 Do not fly an aircraft/model when it is rainy, windy or at night.

 Do not power off the transmitter while your aircraft's/vehicle's/model's engines and motors are still working.

 Please always try to operate your aircraft/vehicle/model within sight range.

 Do not forget to check battery level of the transmitter and the receiver before starting your aircraft/vehicle/model.

- ❗ Always power off your aircraft/vehicle/model first, FM30 radio module the second.
- ❗ Before changing any settings on the transmitter, make sure your aircraft's/vehicle's/model's engines are powered off and their motor wires are off connection, in case of a sudden switch-on.
- ❗ When you start your aircraft/vehicle for the first time, make sure that the fail-safe settings in your transmitter is activated.
- ❗ Always switch on the transmitter first and hold the throttle joystick at its bottom position, then power on your aircraft/vehicle/model.

1.3 Storage/Carrying/Recycling

CAUTION

Always place your SIYI radio system and its parts at places where babies or kids do not reach.

DANGER

SIYI radio system should be placed as below:

Not too hot (above 60°C) or too cold (under -20°C);

Not under direct sunshine or too dusty or too wet;

Not on an unstable holder which lacks of solid supports or may cause vibration;

Not nearby steam or other heat sources.

2 INTRODUCTIONS

2.1 Features

30KM Long Range

Applied with lately developed technologies, such as super long distance, self-adaptive bandwidth, interference avoidance frequency hopping, and two-way telemetry, equipped with industry-level RF hardware which is capable to counter high power electromagnetic interference, FM30 radio module's maximum control distance can reach up to 30 kilometers and more, which can effectively guarantee the low-altitude manipulating stability crossing among trees, through racing panels, in garage and other concrete buildings with many obstacles, shelters, and heavy interference.

Bluetooth/Telemetry Configuration

FM30 comes with built-in Bluetooth function and supports Mavlink protocol, which makes it possible for users to monitor real-time flight status and do configuration through the ground control software.

**FM30 supports popular GCS such as QGroundControl, Speedy Bee, Mission Planner, Fish Drone, etc.*

Receiver OTA Wireless Upgrading, Wireless Binding

The way of upgrading receiver firmware wirelessly let users get rid of complex wire connection.

Through a combination of manipulation, receiver actively enters binding mode without disassembling your drone/aircraft.

RSSI Signal Telemetry

FM30 supports RSSI output in S.Bus mode, providing real-time status information as reference for long-range flight.

2.4 GHz ISM Frequency Band

FM30 uses 2.4 GHz band, which is legal to use in any countries. Under 2.4 GHz and working with Fast Hopping technology, FM30's transmission speed is fast and stable.

USB Simulator (In development)

FM30 will come with built-in simulator driver. Use a USB cable and connect remote controller to PC, then open the simulator software, users can start flying in the simulator immediately.

FR Receiver

Model power battery voltage and receiver power supply voltage real-time telemetry. FR Receiver can receive and analyze data telemetry from flight controller based on Mavlink protocol.

Multiple signal output modes: 16CH S.Bus, 8CH PWM, 8CH PPM.

Firmware upgrading through PC USB port and OTA wireless upgrading from FM30 radio module.

FR Mini Receiver

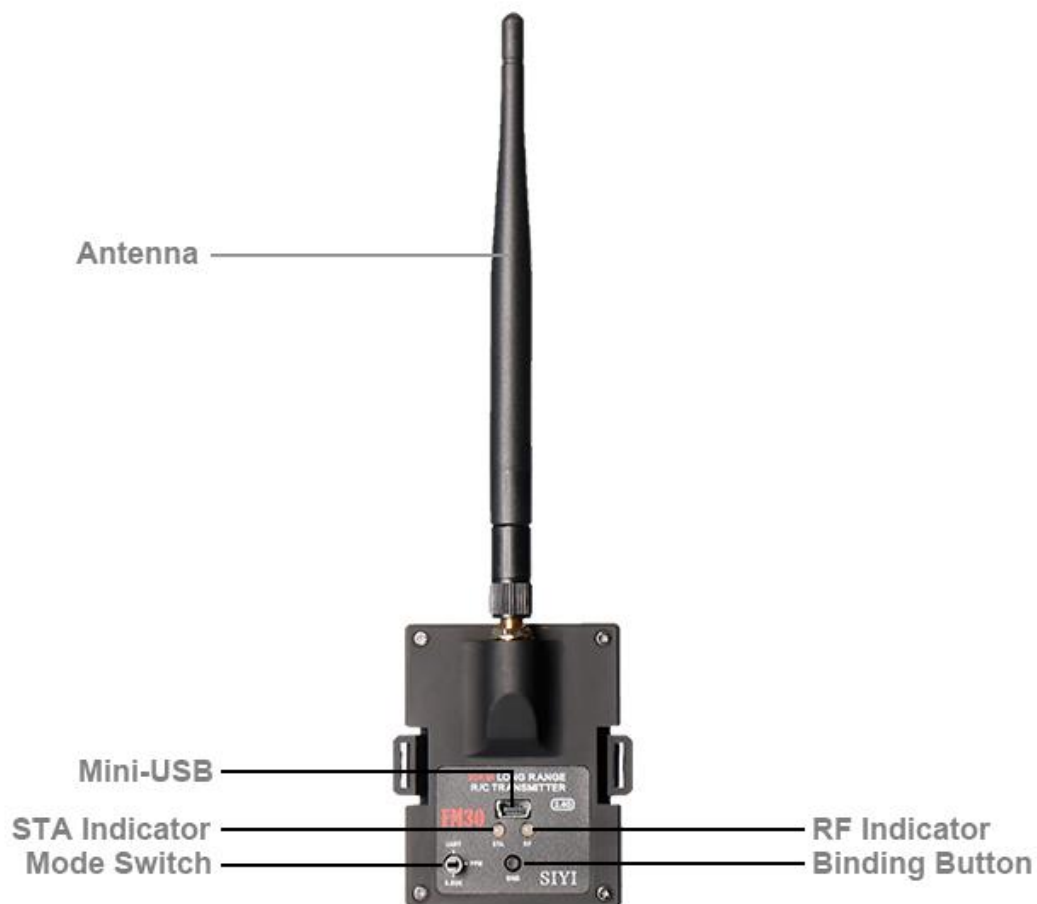
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Multiple signal output modes: 16CH S.Bus, 8CH PWM.

OTA wireless firmware upgrading from FM30 radio module.

2.2 Parts

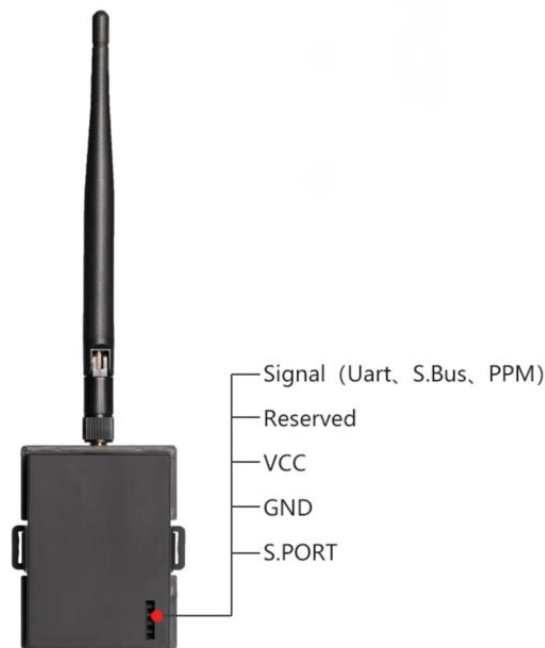
2.2.1 FM30 Radio Module



Front

Port Function

Mini-USB: Firmware upgrading



Back

2.2.2 FR Receiver



Port Function

- S.Bus: 16 channels of S.Bus signal output.
- PWM: PWM channel 1 to 8 output.
- UART: Flight controller data port.
- PWR: Voltage telemetry (compatible with FT24 transmitter, not compatible with FM30 radio module at this moment).

Pin Out

- UART Port

Red: +

Black: -

Yellow: TX

Blue: RX

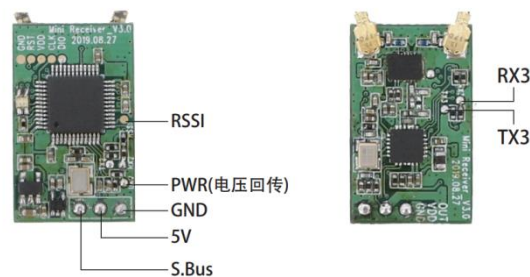
- PWM Ports

3 set of pins 1-8 CH out, from bottom GND, VDD, and Signal

9th set of 3 pins are reserved.

10th set of 3 pins outputs PWM CH9, PPM, and S.Bus

2.2.3 FR Mini Receiver



Port Function

- S.Bus: 16 channels of S.Bus signal output.
- RX3/TX3: Data port.
- RSSI: RSSI signal output
- PWR: Voltage telemetry (compatible with FT24 transmitter, not compatible with FM30)

radio module at this moment).

Pin Out

- S.Bus
- 3 Pins: GND, VDD
- S.Bus Out
- RX3/TX3: Data Port (RX3 to RX port of flight controller, TX3 to TX port).

2.3 Technical Specification

Overall

Channels	16 Communicational Channels
Supported Models	Multi-rotors, Planes, Gliders, Helicopters, Cars, Boats, Racing Drones
Frequency Band	2.400 ~ 2.483 GHz
Max Transmission Distance	30 km / 18.6 miles (unobstructed, free of interference)
Latency	10 ms (protocol mode)
Signal Input	UART, S.Bus, PPM
PC Software	SIYI Assistant
Packing Size	14X9X4 CM
Packing Weight	0.22 kg (0.25 kg by volume)

Transmitter

Antenna Connector	SMA Male
Antenna Gain	3 dBi

Power Input	5 – 10 V
Power Consumption	0.7 W
Dimensions	70 x 20 x 33 mm (antennas folded)
Compatible Slot Size	59 x 43 x 18.5 mm
Net Weight	36 g
Operating Temperature	-10 ~ 55 °C

FR Receiver

Signal Output	S.Bus: 16 channels PPM: 8 channels PWM: 8 channels
Data Port	UART
Antenna Gain	2 dBi
Working Voltage	5 ~ 8.4 V
Telemetry Voltage	0 ~ 50 V
Operating Temperature	-10 ~ 55 °C
Dimensions	51.5 x 38 x 13 mm (antenna excluded)
Net Weight	20 g (antenna excluded)

FR Mini Receiver







Signal Output	S.Bus: 16 channels PPM: 8 channels
Data Port	UART
Antenna Gain	2 dBi
Working Voltage	5 V
Telemetry Voltage	0 ~ 26 V
Operating Temperature	-10 ~ 55 °C
Dimensions	24 x 15 x 3 mm (antenna excluded)

Net Weight	1.5 g (antenna excluded)
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2.4 LED Indicator

The LED indicator inside of the power button has three colors and different frequencies to indicate FM30 transmitter's different system status.

STA Indicator

-  Solid Yellow: No communication between transmitter and receiver.
-  Solid Green: Good communication.
-  Fast Red Blinks: Transmitter is binding with receiver.
-  Slow Red Blinks: Transmitter firmware does not match.
-  Triple Red Blinks: RF initialization failed.
-  Double Yellow Blinks: Bluetooth communication failed.

RF Indicator

-  Solid Red: Transmitter RF OFF.
-  Solid Green: Good communication.
-  Green Blinks: Blinking frequency indicates FM30 transmitter's RF signal strength. The faster it blinks, the worse the signal is.
-  Red-Green-Yellow Blinks in every 5 seconds: Receiver under wireless upgrading.

2.5 Packing List

FM30 Radio Module

1 x FM30 Transmitter

1 x Mini-USB Cable

FM30 Radio Module with FR Receiver

1 x FM30 Transmitter

1 x FR Receiver


1 x Mini-USB Cable

FM30 Radio Module with FR Mini Receiver

1 x FM30 Transmitter

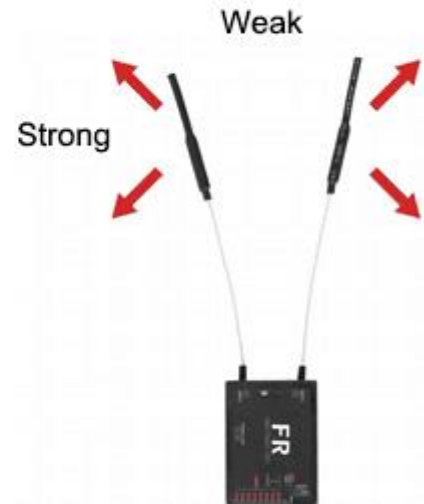
1 x FR Mini Receiver

1 x Mini-USB Cable

 **Mark:** Before using FM30 radio module, please confirm if the declared items are included in the box. If there were any missing items, please contact your dealer immediately.

3 GET READY TO USE FM30

3.1 How to Place Antenna Right



WARNING

Do not fold or cover antennas and avoid any obstruction between the transmitter and the aircraft in flight, otherwise there will be an obvious decrease to transmission signal quality.

3.2 Binding FM30 Transmitter with FR / FR Mini Receivers

Each unit of FM30 transmitter is assigned with a unique ID code. Before binding receiver to transmitter, receiver identifies the transmitter ID (**Binding**). When the first-time binding is done, transmitter ID will be stored in receiver so that you don't

have to repeat binding before the next flight (except when your transmitter must be bound with a new receiver).

With OpenTX transmitter, assign unique Receiver Number at Model setup menu per model (1 to 8), so that FM30 will match bound receiver.

Steps of Using Binding Button

****For FR Receiver***

1. Power on the receiver. Press the binding button, receiver indicator turns to blink red fast, receiver ready for binding. Under protocol mode, go to “External RF” page in your radio transmitter and enter...
2. “Bind”. Under S.Bus/PPM mode, press the binding button on FM30 transmitter for 5 seconds to start binding.
3. FR Receiver / FM30 Transmitter turns to blink green; communication is normal, binding is successful.

Steps of Wireless Binding

****For FR / FR Mini Receiver***

Power on the receiver. After 5 seconds, plug in and out power wire for 3 times (with power connected for...

1. at least 1 second each time). Receiver indicator turns to blink red fast, receiver ready for binding.

2. With OpenTX transmitter under protocol mode, go to “External RF” page in your radio transmitter and enter...

“Bind”. Under S.Bus/PPM mode, press the binding button on FM30 transmitter for 5 seconds to start binding.

3. Receiver/transmitter turns to blink green; communication is normal, binding is successful.

WARNING

Before binding, please make sure motors are not powered (E.S.C are off connection).

Reboot receiver when binding is finished and try to manipulate on transmitter to confirm if binding is successful.

4 SIGNAL INPUT

FM30 supports three modes of signal input: Protocol, S.Bus, and PPM.

About Signal Input Modes

Protocol Mode

Transmitter supports binding operation, RSSI telemetry and alert, fail-safe settings, etc. OpenTX transmitters use this mode.

S.Bus / PPM

Transmitter outputs and transfer channel value.

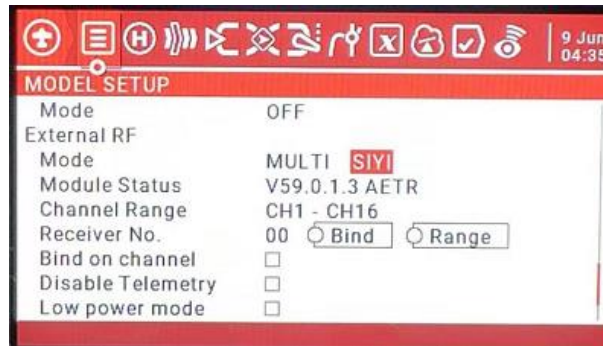
Steps of Setting Protocol Mode

1. Mount FM30 transmitter into your OPENTX radio transmitter.
2. Turn the “Mode Switch” to “UART”.



3. Go to “Model Setup – External RF” page.

4. Enter “Mode” as “MULTI - SIYI”.



5. Bind FM30 transmitter with FR / FR Mini receiver and test if it works normally.


Steps of Setting S.Bus / PPM Mode

1. These modes are for non-OpenTX transmitters. Decide either S.Bus or PPM mode according to your transmitter specification.
2. Turn the “Mode Switch” to “S.Bus” or “PPM”.



For radio transmitters without a JR bay nor external interface, wire...

3. FM30 transmitter with power and S.Bus / PPM signal.

4. Go to the page for signal output settings in your radio transmitter and set it as S.Bus / PPM output.
 5. If the STA Indicator turns to Solid Green, it means that your radio transmitter signal output is recognized and received.
 6. Bind FM30 transmitter with FR / FR Mini receiver and test if it works normally.
-  Mark: Setting steps may be different for different OPENTX version or different radio transmitters. Products are designed for OpenTX 2.3. Please refer to their manuals for detail.

5 DATALINK

FM30 transmitter comes with built-in Bluetooth. When your GCS is connected with FM30 through Bluetooth, you can configure GCS and monitor flight data.

**The built-in Bluetooth in FM30 transmitter supports two protocols, Mavlink and SpeedyBee.*

Steps of Using FM30 Radio Module with QGroundControl

Wire “TX” and “RX” in your flight controller’s UART port to “RX” and “TX” in FR Receiver’s UART port or “RX3” and “TX3” on FR Mini Receiver.

1. Set flight controller baud rate to “57600”, protocol type Mavlink 1 or 2.
2. Enable Bluetooth function on your mobile device and search the 10-digit Bluetooth ID starting with “59*****” and pair. Password is “1234”.
3. Open QGroundControl and go to “Connection”. Add a new connection and set as Bluetooth connection. Select the paired Bluetooth ID and connect.
4. Finished.

Steps of Using FM30 Radio Module with Speedy Bee

1. Wire “TX” and “RX” in your flight controller’s UART port to “RX” and “TX” in FR Receiver’s UART port or “RX3” and “TX3” on FR Mini Receiver.

**Wiring sequence is “TX to RX” and “RX to TX”.*

2. Set flight controller baud rate to “57600”.
3. Open Speedy Bee and search the 13-digit Bluetooth ID starting with “59*****BLE” and connect.
4. Finished.

6 RSSI

FM30 supports RSSI output through S.Bus channels.

**Working with FR Mini receiver, FM30 will output ADC RSSI.*

About RSSI

Protocol Mode

Receiver CH16 is defaulted to output RSSI.

PPM Mode

Receiver CH8 is defaulted to output RSSI.

S.Bus Mode

Receiver CH16 is defaulted to output RSSI.

Steps of Setting RSSI

Let's take protocol mode and UART connection as an example.

1. Power on your radio transmitter, connect FM30 transmitter with radio transmitter under protocol mode.
2. Open your GCS and go to RSSI settings.
3. Change channel to CH16 and check if RSSI displays normally.

7 FAIL-SAFE

FM30 supports Fail-Safe function. If your transmitter lost control to receiver, Fail-Safe function runs automatically and immediately to protect your model from a crash.

About Fail-Safe

S.Bus Communication

No Fail-Safe channel value is required. S.Bus protocol supports marking the “Fail” position.


When FM30 transmitter lose control to receiver, receiver outputs “Fail-Safe” commands to flight controller for RTH or landing.

PPM / PWM Communication

Fail-Safe channel value is required.

When FM30 transmitter lose control to receiver, receiver outputs the Fail-Safe channel value to command flight controller for RTH or landing.

Let's take an example of PIX / APM flight controller. The condition that flight controller enters “Fail-Safe” is “throttle channel output lower than 975”. So, we should set a signal in our radio transmitter that throttle channel outputting is lower than 975 for entering “Fail-Safe”.

 **Mark:** Setting steps are different for different flight controllers. Please refer to manuals of flight controllers or aircrafts for detail.

Steps of Setting Fail-Safe

It is necessary to keep FM30 transmitter and FR / FR Mini receiver in communication before Fail-Safe Setting.

Protocol Mode

1. Go to “External RF” page and find “Failsafe Mode”.
2. “Hold”: If transmitter lost control to receiver, the receiver will output the last channel value before losing control.
3. “Custom”: Users can custom the “Fail-Safe” channel value. Tap on “Set” to enter channel settings and set your required channel value.

S.Bus / PPM Mode

Under S.Bus / PPM mode, it is impossible to do Fail-Safe settings on radio transmitter. So, we should set FM30 Fail-Safe by reading current channel output value.

1. Let the throttle channel outputs your required channel value for Fail-Safe.
2. Press binding button once, then press again quickly and hold it till STA Indicator and RF Indicator are OFF.
3. Fail-Safe setting is finished when STA Indicator blinks green twice.

8 FIRMWARE UPGRADING

FM30 transmitter with FR receiver supports both USB / OTA firmware upgrading.

FM30 transmitter with FR Mini receiver supports OTA firmware upgrading only.

Before upgrading firmware for FM30 radio module, it is necessary to prepare the tools and software below.

- SIYI Assistant v1.2.7
- FM30 Transmitter Firmware
- FR / FR Mini Receiver Firmware

**All files can be downloaded from SIYI Official website (<http://en.siyi.biz/>) or the SIYI Google Drive Link for FM30 Radio Module and FT24 Radio System (<https://drive.google.com/drive/folders/1DUxOYszp7zNk7u3byXO3rH4UgD3K4PI4?usp=sharing>) or got from your dealer.*

- Mini-USB to USB Cable

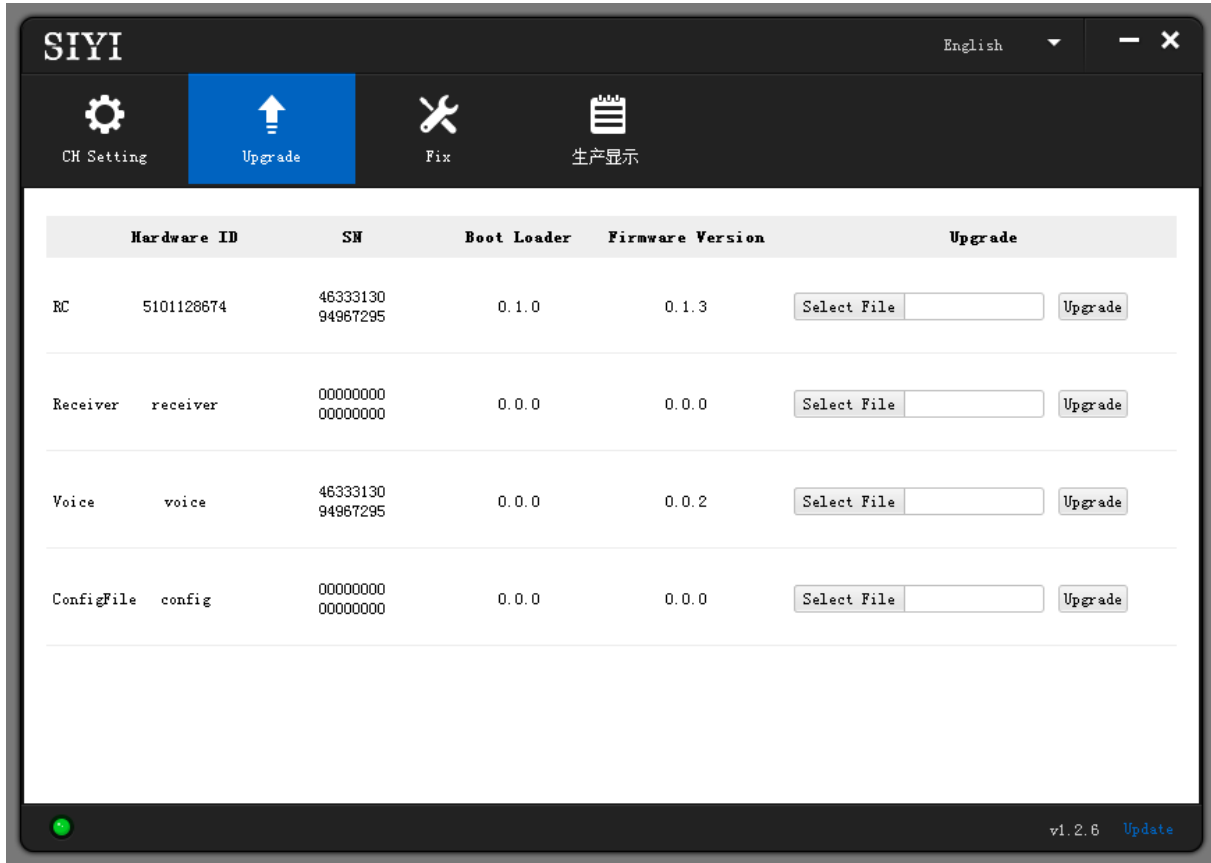
**Came with FM30 package*

8.1 USB Firmware Upgrading

Steps

1. Install "SIYI Assistant v1.2.7" in your computer.

2. Connect FM30 transmitter to your computer.
3. Run “SIYI Assistant v1.2.7” to check the transmitter’s current firmware version.



4. Upload the latest firmware files for FM30 transmitter (RC) and click on “Upgrade”. Then wait till the process is 100% finished.
5. Plug out FM30 transmitter and connect FR receiver to your computer. Then repeat Step 3 & 4 to upgrade receiver firmware.

 **CAUTION**

“Voice” and “ConfigFile” does not have to be upgraded for FM30 transmitter.

If your FM30 transmitter and FR receiver are bond and you can check receiver firmware when only the transmitter is connected to your computer, then FR receiver firmware can be upgraded right after upgrading FM30 Transmitter while the transmitter is still connected.

8.2 OTA Firmware Upgrading

8.2.1 Receiver and transmitter are bond

1. Connect FM30 transmitter to your computer.
2. Run “SIYI Assistant v1.2.7” to check the transmitter’s current firmware version.
3. Upload the latest firmware files for FR / FR Mini receiver and click on “Upgrade”.
Then wait till the process is 100% finished.

8.2.2 Receiver and transmitter are not bound

1. Connect FM30 transmitter to your computer.
2. Power on FR / FR Mini receiver and wait for 5 seconds.
3. Cut and connect receiver battery power for 6 times (1-second interval of each time). Receiver status indicator blinks red and green fast. Receiver is standby for firmware upgrade.
4. Run “SIYI Assistant v1.2.7” to check the transmitter’s current firmware version.

5. Upload the latest firmware files for FR / FR Mini receiver and click on “Upgrade”.
Then wait till the process is 100% finished.

9 After-sale Service

9.1 To-be-repair Procedure

If you meet any difficulties using SIYI Technology’s product, please send your email to support@siyi.biz or consult your sales manager directly.

If it was a confirmed product defect or damage which requires returning or replacement or repairing, SIYI engineers will guide you for the process.

9.2 After-sale Policy

SIYI Technology guarantees that, subject to the following conditions, Return & Refund Service, Replacement Service and Warranty Repair Service can be

requested. Please contact SIYI directly (support@siyi.biz or your sales manager) or your authorized SIYI dealer for more detail.

9.2.1 7-Day Return & Refund

You can request Return & Refund Service:

Within seven (7) days of receiving a product if the product has no manufacturing defect, has not been activated and is still in new or like-new condition.

Within seven (7) days of receiving a product if the product has a manufacturing defect.

Return & Refund Service will not be provided where:

It is requested beyond seven (7) calendar days of receiving a product.

A product sent to SIYI for Return & Refund Service does not include all original accessories, attachments or packaging, or any item is not in new or like-new condition, i.e., with cracks, dents, or scratches.

A legal proof of purchase, receipt or invoice is not provided or is reasonably believed to have been forged or tampered with.

Any fault or damage of the product is caused by unauthorized use or modification of the product, including exposure to moisture, entry of foreign bodies (water, oil, sand, etc.) or improper installation or operation.

Product labels, serial numbers, waterproof marks, etc. show signs of tampering or alteration.

Damage is caused to the product by uncontrollable external factors, including fire, floods, high winds, or lightning strikes.

A product is not delivered to SIYI within seven (7) calendar days after Return & Refund Service confirmation is sent from SIYI.

Other circumstances stated in this policy.

9.2.2 15-Day Replacement

You can request Replacement Service:

Within fifteen (15) calendar days of receiving the product if the product has sustained a substantial damage in transit, provided always that the damage proof issued by the carrier can be provided to SIYI.

Within fifteen (15) calendar days of receiving the product if the product does not match the original description of the product in one or more significant respects.

Within fifteen (15) calendar days of receiving the product if the product suffers performance failure.

Replacement Service will not be provided where:

Service is requested more than fifteen (15) calendars days after receiving a product.

Legal proof-of-purchase, receipts, or invoices are not provided, or are reasonably believed to have been forged or tampered with.

A product sent to SIYI for replacement does not include all original accessories, attachments, and packaging, or contains items damaged by user error.

A product is found to have no defects after all appropriate tests are conducted by SIYI.

Any fault or damage of the product is caused by unauthorized use or modification of the product, including exposure to moisture, entry of foreign bodies (water, oil, sand, etc.) or improper installation or operation.

Damage is caused by uncontrollable external factors, including fires, floods, high winds, or lightning strikes.

Received product has not been sent back to DJI seven (7) calendar days after replacement confirmation from DJI.

Proof of damage during transit issued by the carrier cannot be provided.

Other circumstances stated in this policy.

9.2.3 1-Year Warranty Repair

You can request warranty repair service:

If a product does not function as warranted during the warranty period, you may obtain after-sales service by contacting SIYI's service center. You will need to provide a valid proof-of-purchase, receipt, or order number for the warranty service.

Charges may apply for services not covered by this Limited Warranty. Please contact SIYI for information specific to your location.

Please note that the warranty service is only available in the respective SIYI service regions where you purchased your SIYI product.

Warranty Repair service will not be provided where:

Crashes or fire damage caused by non-manufacturing factors, including but not limited to pilot errors.

Damage caused by unauthorized modification, disassembly, or shell opening not in accordance with official instructions or manuals.

Damage caused by improper installation, in correct use, or operation not in accordance with official instructions or manuals.

Damage caused by non-authorized service provider.

Damage caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.

Damage caused by operation in bad weather (i.e., strong winds, rain, sand/dust storms, etc.)

Damage caused by operating the product in an environment with electromagnetic interference (i.e., in mining areas or close to radio transmission towers, high-voltage wires, substations, etc.)

Damage caused by operating the product in an environment suffering from interference from other wireless devices (i.e., transmitter, video-downlink, Wi-Fi signals, etc.)

Damage caused by reliability or compatibility issues when using unauthorized third-party parts.

Damage caused by operating the unit with a low-charged or defective battery.

Products or parts with an altered identification label or from which the identification label has been removed.

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