



# SKYDROID H12 12 Channel Remote Control for Drones User Manual

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# SKYDROID

## Attention:

If not obey the instruction to operate, it might cause financial loss and light injury or heavy injury.

## Introduction

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## Product Characteristics

H12 series adopts GaoTongXiaolong 625 processor, equipped with Android embedded system, advanced SDR technology, and super protocol stack, so that the image is clearer, lower delay, far distance, stronger anti-interference, to which aircraft, robots, industrial control equipment can be applied.

## Main usage and Application range

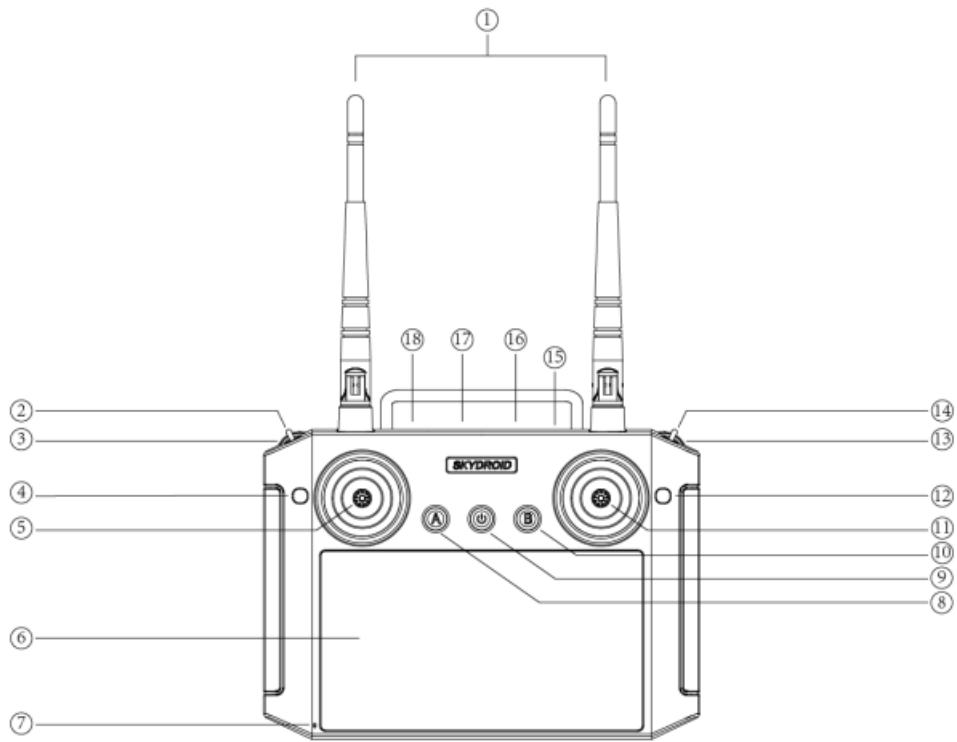
It is used for remote control operation of helicopter, fixed wing, multi-rotor wing, car, ship and other video image transmission (with optional camera), data transmission, and control of UAV flight

## Spec and Parameters

Remote Controller Parameter			
Model	H12	Channels	12
Working Voltage	4.2V	radio-frequency power	20DB@CE/23DB@FCC
Frequency	2.400-2.483GHz	FHSS	FHSS
Upgrade	APP upgrade	Weight	530g
Dimension	190*152*94mm	Battery	10000mA/H
Duration of Flight	6-20 hours	Charging Port	TYPE-C
Application	helicopter, fixed wing, multi-rotor wing, car, ship		

Receiver Parameter			
Model	R12	Channel	12
Working Voltage	4.5-5.5V	Working current	140MA@5V
Dimension	51*41*13	Weight	14g

## Introduction on RC letters



### Remote Controller

Long press the power button for 4 seconds to open the remote controller.

No.	Remark	No.	Remark
1	2.4G 3dB Antenna	10	Pump Switch B
2	Mode E Switch	11	Rotor X2 Y2
3	Dial G	12	Button D
4	Return C	13	Dial H
5	Rotor X1 Y1	14	AB Point Setting F
6	5.5 inch Screen	15	Speaker
7	MIC Port	16	SIM Card Slot
8	Multi-function Switch A	17	Charging Port
9	Power Switch	18	PPM Output

## Receiver



Name	Description	Name	Description
RED LED	Red Led	2.4 ANT	Antenna
GN LED	Green LED	GND	Camera interface
MODE KEY	Mode Key	VCC	
GND	GND	RX1	
USB 5V	USB Upgrade Interface	TX1	
DM/CH9		GND	Data Transfer Interface / CBUS
DP/CH10		5V	
GND		RX2	
RX3	Expansion Interface	TX2	SBUS
TX3		GND	
		SBUS	
		2.4G ANT	Antenna

Receiver Status light	Receiver Status
Solid Green light	Communication is good
Green light Slow flash	Disconnect from remote controller
Green light Quick flash	Frequency matching mode
Solid Red light	C.Bus mode
Red light Slow flash	Upgrading
Red light Quick flash	Self-check failed,please try again or return factory

## Environment Condition

1. Environment temperature:-10°C~+55°C
2. Stock temperature -25°C +70°C
3. Relative humidity Not exceed 85%
4. Atmospheric pressure:86kPa~106kPa
5. The use site is not allowed to have explosive dangerous medium, the surrounding medium should not contain corrosive metal and the gas that damage the insulation and conductive medium, not allowed to be full of water vapor and serious mold.
6. The place of use should be equipped with facilities to prevent rain, snow, wind, sand and ash.

## Working Condition

### Power and Charging:

H12 series has a built-in integrated rechargeable lithium battery, compatible with the market standard Micro USB interface, and a power adapter of 5V specification (such as USB charger for digital products like mobile phones and cameras) for charging.

In case of smoke, odor and night leakage when charging, please do not continue to charge , and please transfer it to factory for maintenance.

Please do not charge the product in the area where the baby touches, to avoid the risk of electric shock.Do not charge the product at an environment above 60°C.

## Safety

### Warning:

Freshman please pay special attention to the following safety matters:

Do not fly when you are tired, drunk or in poor physical condition.

Do not fly in rain, strong wind and other bad weather!

It is forbidden to fly near high voltage lines, communication base stations, or places where people gather or move.

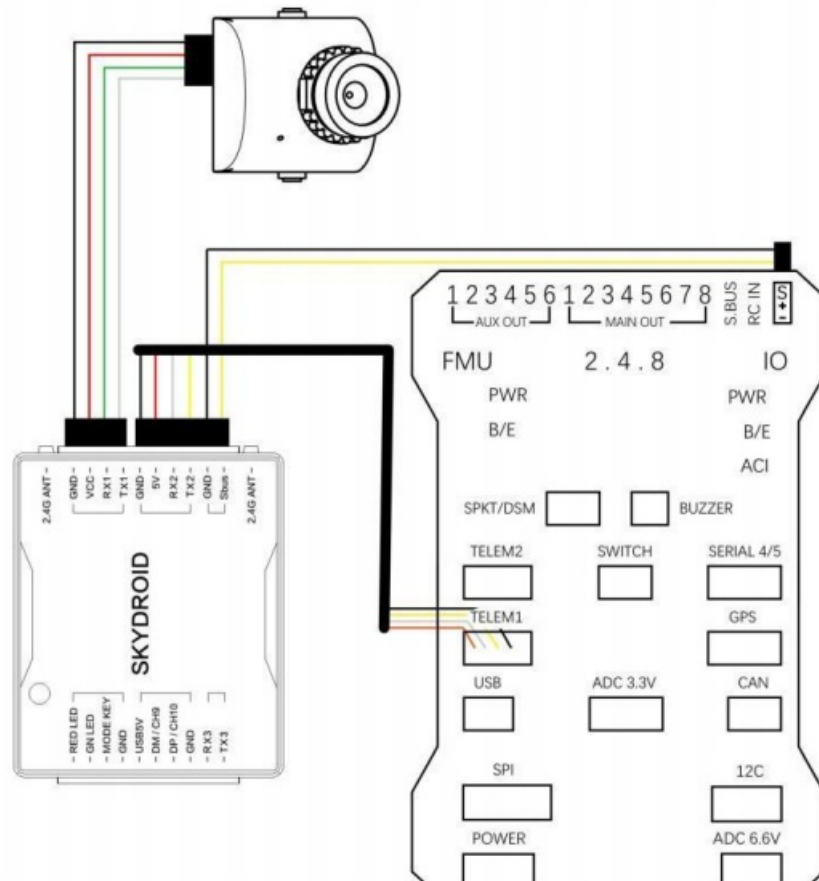
Do not fly in airports and other places where it is forbidden to fly!

It is forbidden to fly in crowded places, parking areas or other areas where property loss or personal injury may be caused. Before flight, please check whether the transceiving and receiving system and the aircraft are normal.

Please use a guaranteed professional charger to charge the battery.

The antenna of this product is a fragile part, avoid excessive damage under stress.

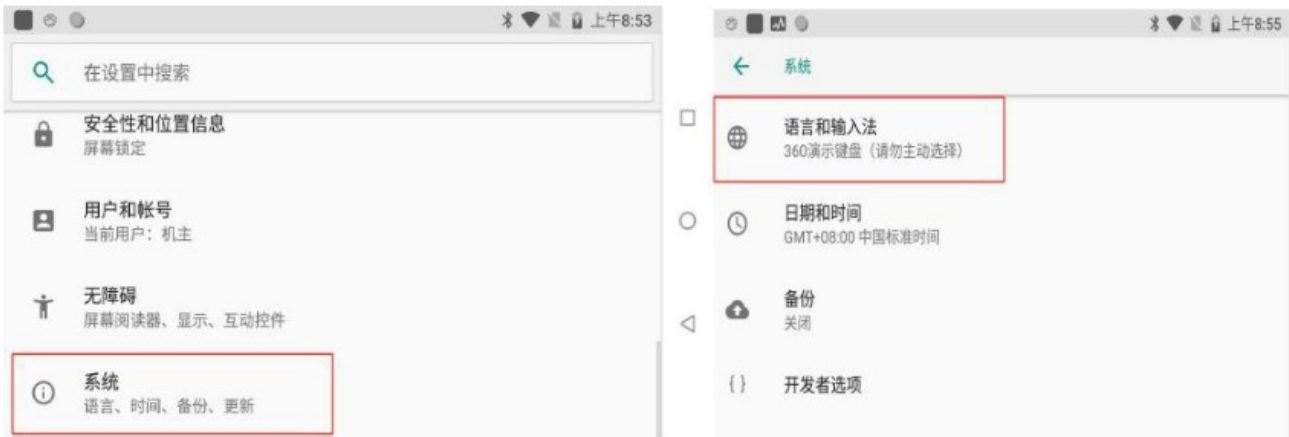
### Usage and Operation



#### 1. Pre check and preparation

- ① Check whether the remote control power is sufficient before use.
- ② Before use, please check whether the antenna is placed as required to obtain the best effect.
- ③ Please make sure the firmware has been upgraded to the latest version for the first use.
- ④ users should ensure that they are not drunk, and under the influence of drugs operation.

#### 2. Usage steps



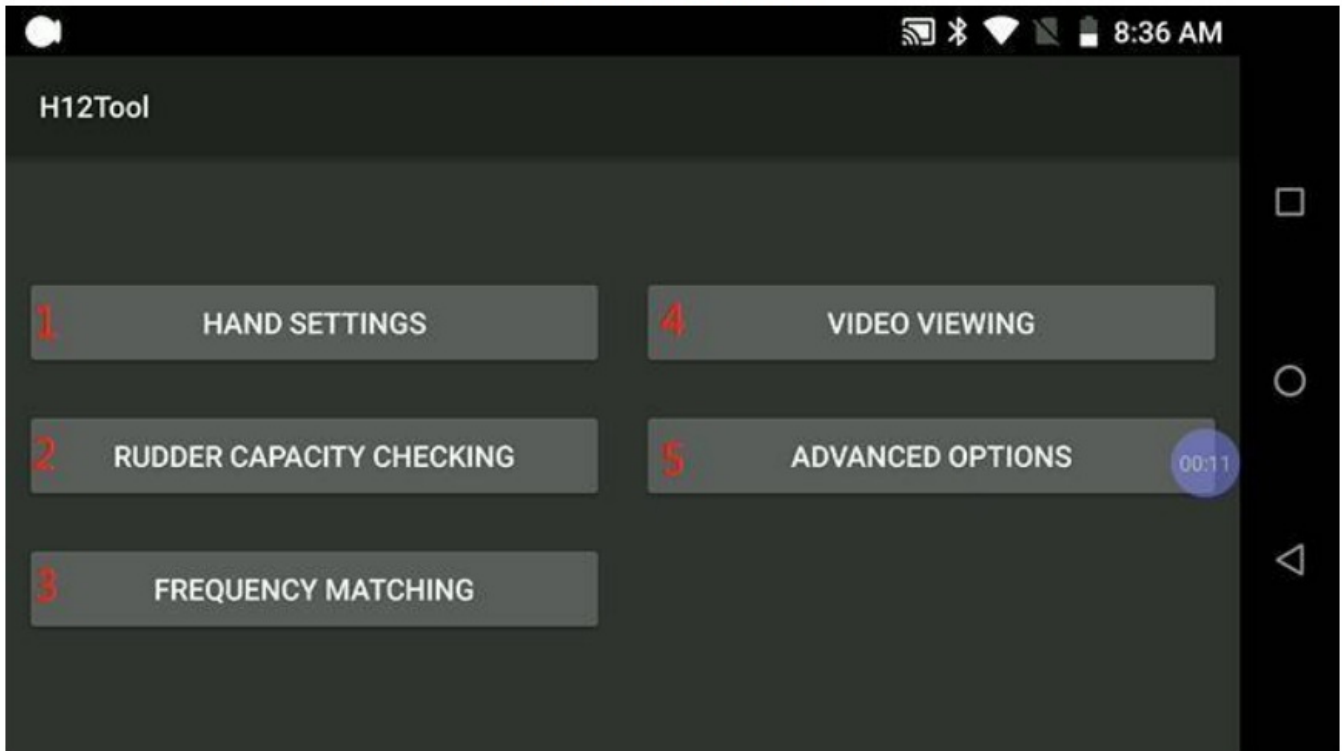
Click Setting—Click System—Click Languages & input to change the language

### Status bar



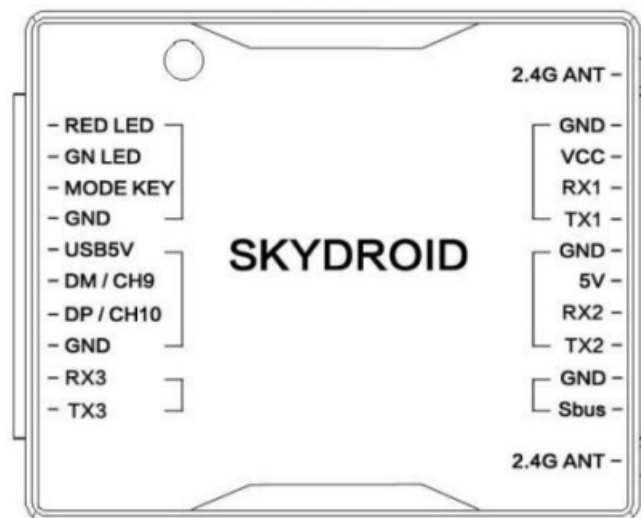
1. Bluetooth opening prompt
2. WIFI Signal
3. SIM card prompt window (the picture shows the state without SIM card inserted)
4. Power display (charging status in the picture)
5. Time display
6. View background process
7. Return to the main page
8. Return to the previous step





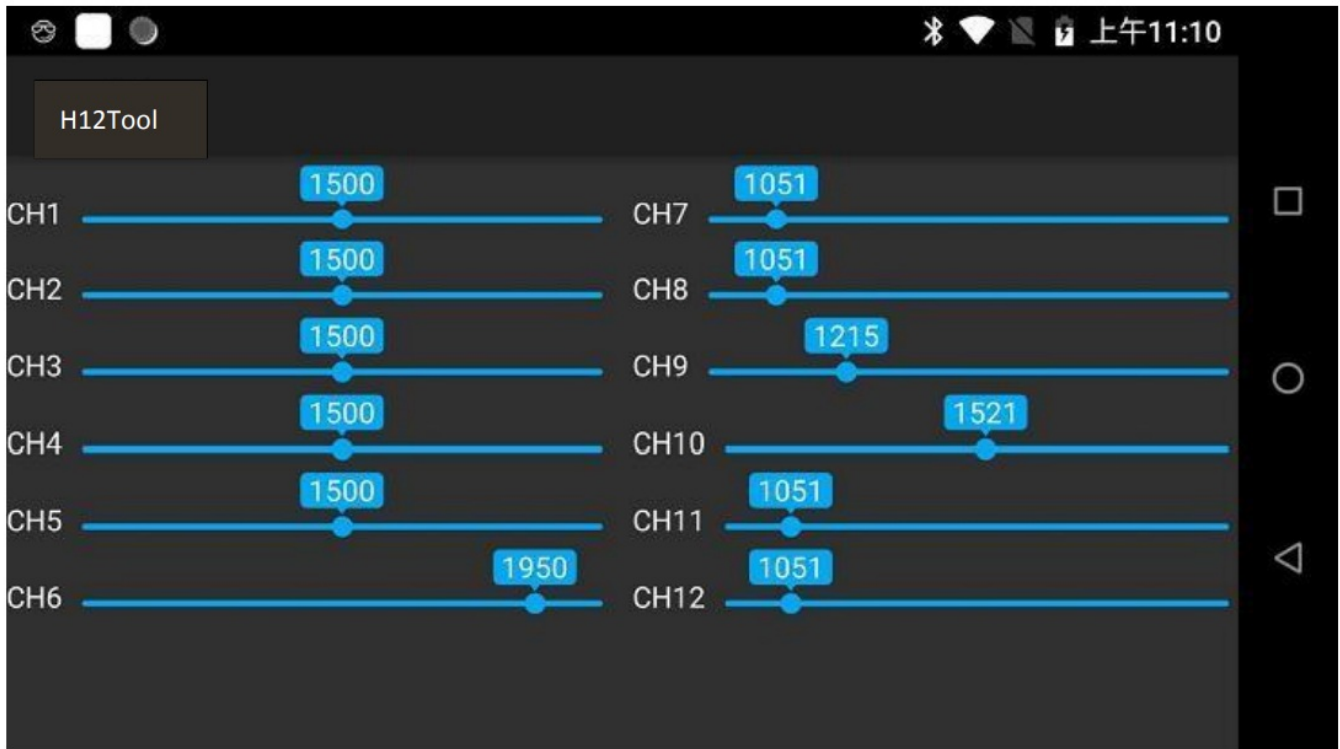
1. For switching the hand settings
2. For checking rubber capacity
3. For matching the remote controller with other receivers (the matching method is introduced below)
4. For checking the image returned by the camera
5. In the advanced options, you can adjust the channels, upgrade the receiver firmware, check the signal strength, modify the receiver serial port baud rate (password needs to get from the technicians)

## Frequency Matching



1 When the receiver is powered on, the green light flashes quickly after short-circuiting GND and MODE KEY. Open the H12Tool on the remote controller, click Frequency Matching to start matching. The green light of the receiver will be always on when the match is successful. Quickly power on the receiver 5 times, and start the match mode for the 6th time, the green light flashes. Open the H12Tool on the remote control, click Frequency Matching to start matching. The green light of the receiver is always on after the match is successful.

## Rocker Calibration



1. Put the rocker G, H back to the center, and then turn off the remote controller
2. Long press D button to power on, and release D button after turning on the remote controller
3. When calibrating the rockers, please check the rubber capacity in the H12Tool and open the auxiliary calibration.
4. Long press D button to enter the calibration mode, and the remote controller will ring continuously.
5. Move the right and left rockers to the maximum and minimum value in sequence. Long press D to confirm after moving.
6. Restart the remote controller.

Sharing digital:

This function is not currently supported

## Common Questions and Solutions

1. Can other APPs be installed on the remote controller?  
The remote controller terminal permissions are all open, without any special software and limited software installation and unloading.
2. Data transmission cannot be connected. Check whether it is connected to the remote controller at UDP type, and whether the listening port is 14551. Check whether the baud rate is normal. Check if RX TX is connected reversely (Correct way: connect RX to TX, TX to RX).
3. The remote controller keeps beeping  
When the remote controller is not successfully connected with the receiver, the remote controller will always give a prompt alarm.
4. The remote controller sound is too low to hear clearly  
You can find the Sound option in Settings and adjust the sound in the Sound option
5. What else can Type-C port do besides charging?

In addition to charging, Type-C port can also be connected to a computer for file viewing.

#### 6. The remote controller has several ways to connect to the network

It can connect to the network through SIM card or WIFI

## Maintenance and Repairment

### Long-term storage maintenance

Store the remote controller in a dry and ventilated place, and reduce direct sunlight to prevent the battery from overheating. The recommended temperature range for storage when more than three months is between 22 and 28 degrees Celsius. Never store batteries at temperatures lower than -20 degrees Celsius or higher than 45 degrees Celsius.

## Transportation and Storage

To avoid possible injury and loss, be sure to comply with the following:

Since cables and small parts may be dangerous to children, be sure to keep children away from the parts of the remote controller note

1. Do not immerse the remote controller in water. If it does, please wipe it with a soft dry cloth and turn off the power immediately.
2. It is forbidden to mechanically hit, crush, puncture the battery, and it is forbidden to drop the battery;


This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

## Documents / Resources

	<p><a href="#">SKYDROID H12 12 Channel Remote Control for Drones</a> [pdf] User Manual</p> <p>H12, 2A933-H12, 2A933H12, H12 12 Channel Remote Control for Drones, 12 Channel Remote Control for Drones, H12 12 Channel Remote Control, 12 Channel Remote Control, Remote Control</p>
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