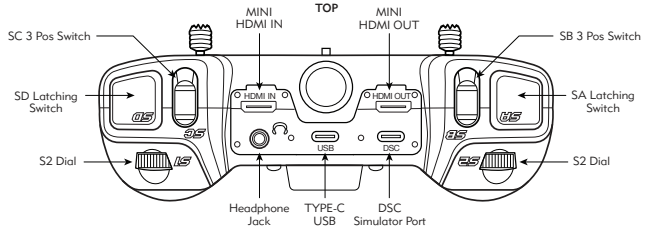
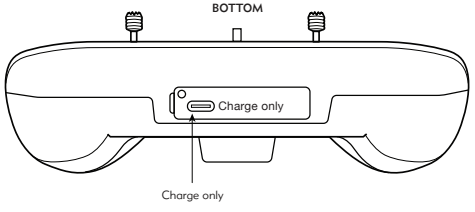
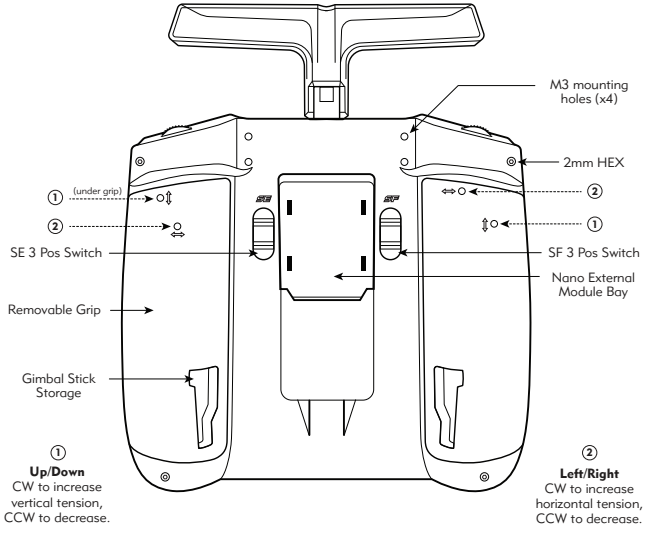






RADIOMASTER

EU SIMPLE DECLARATION OF CONFORMITY

RadioMaster declares the radio equipment AX12 is in compliance with EU directives Directive 2014/53/EU.

Manufacturer by
ShenZhen RadioMaster Co., Ltd
4th Floor, Yangtian Building, No. 18 Yangtian Road,
Xin'an Street, Baoan District, Shenzhen, Guangdong

CE FC

FCC ID: AX12

FCC Information
This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. 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. Full text of the declaration of conformity:

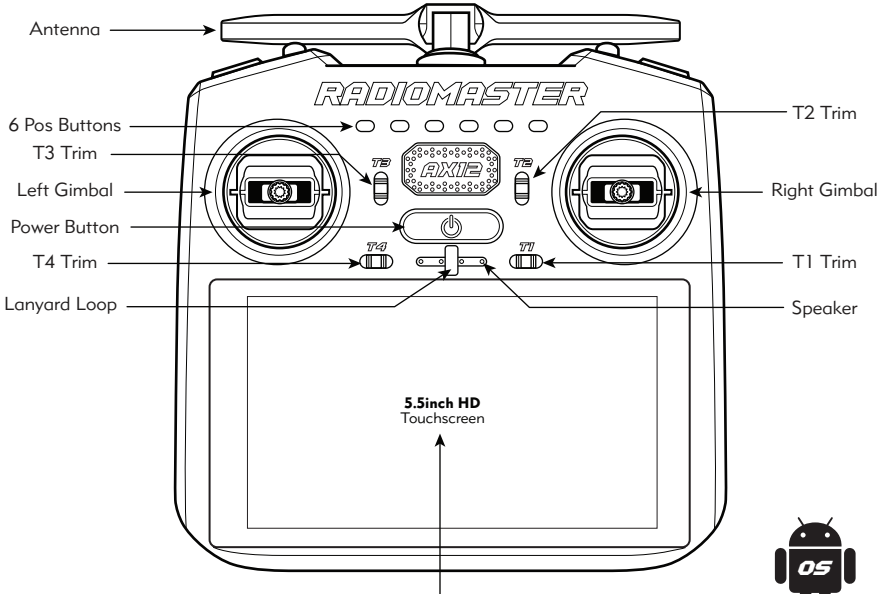
WWW.RADIOMASTERRC.COM

RADIOMASTER AX12

2.4 GHZ

Quick Start Guide

640 GRAMS



SPECIFICATIONS

- Item: AX12 Radio
- Size: 171*168*73mm
- Weight: 640g
- Processor (CPU): 8 cores
  4 * Cortex-A73 2.0GHz
  4 * Cortex-A53 2.0GHz
- Graphics Processor: ARM Mali-G72 700MHz
- Internal Storage: 64GB
- Memory Capacity: 4GB
- Frequency: 2.400GHz-2.480GHz
- Transmitter: Built-in ExpressLRS 2.4GHz
- Transmission Power: Up to 24dbm
- Antenna Gain: 2dB
- Channels: Max 16 channels
- Gimbal: X5 Hall Effect
- Update Method: Online updates

INTRODUCTION

Thank you for purchasing the RadioMaster AX12 remote control system. This system is versatile and suitable for both beginners and professionals. To ensure proper and safe use of this product, please read this instruction manual carefully before use. Changes have been made due to version upgrades. The information contained in this manual is subject to change without notice.

The AX12 remote control is suitable for all types of fixed-wing aircraft, gliders, helicopters, and multirotor aircraft. The model type can be customized according to the aircraft used, and various mixed control functions are available.

Follow the links for more detailed guides, firmware updates, and additional resources.

-The RadioMaster team

SAFETY INFORMATION

Many radio control models are equipped with powerful motors and sharp spinning propellers. Please exercise caution when working on models. Ensure power is disconnected from your models and remove propellers when performing maintenance.

Do not operate the AX12 remote control system under the following conditions:

- In severe weather or strong windy conditions, such as rain, hail, snow, storms or electromagnetic environments.
- In any situation where visibility is limited.
- In areas where people, property, high-voltage power lines, public roads, vehicles or animals may be present.
- If you feel tired or unwell, or under the influence of drugs or alcohol.
- If the remote control or model seems to be damaged or not working properly.
- In areas with high 2.4GHz or 900MHz interference or where these radio frequencies are prohibited.
- When the radio's battery voltage is too low to be used.
- In areas where local regulations prohibit the use of aviation models.

ANTENNA SEPARATION DISTANCE

When operating your RadioMaster transmitter, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

BATTERIES & CHARGING

AX12 features built-in lithium battery with USB-C charging capability. The charging circuit is designed exclusively for the internal lithium-ion battery, which has a nominal voltage of 3.7V and a maximum charging voltage of 4.2V.

Please use a standard USB 5V charger with a minimum requirement of 5V/2A. You may use a USB 5V charger with an output current higher than 2A. Note that some smartphone chargers with proprietary fast-charging protocols may not be compatible.

Regularly check the battery's voltage and condition, and never charge it unattended. Always charge in a safe area away from flammable materials. Do not charge the transmitter if it gets wet or is damaged in any way.

RadioMaster shall not be held liable for any adverse consequences resulting from improper use or misuse of this product in violation of safety guidelines.

WARRANTY & REPAIR

If there is any problem with your remote control hardware, please keep the proof of purchase and contact the retailer where you purchased the AX12.

You may also visit our warranty support page: **www.radiomasterrc.com/pages/contact**

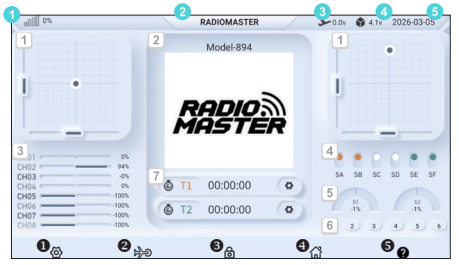
WARNING

The AX12 comes pre-installed with the most stable firmware from the factory. The system will be continuously upgraded to add more exciting features. Please use the online update function provided by the APP software.

The Android system is a completely open operating system. Please ensure that you do not install or use any apps from untrusted sources. Apps of unknown origin may cause the Android system to malfunction, preventing you from using the remote control normally.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the specified frequency range.



The default home page of the system, which includes basic information about the remote control.

Top bar display:

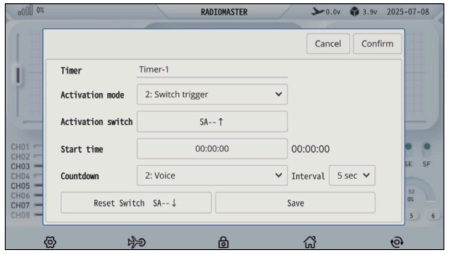
1. **Signal Strength:** After the remote controller and receiver are paired and connected, you can view the signal status and return link quality.
2. **Device name:** Middle displays the device name, which can be customized in the system settings.
3. **Aircraft terminal voltage:** When using a receiver with voltage feedback or a flight controller with voltage feedback, the battery voltage at the aircraft terminal can be displayed in real time.
4. **Remote control voltage:** Displays the real-time voltage of the remote control.
5. **Date:** Display the current date.

Bottom bar display:

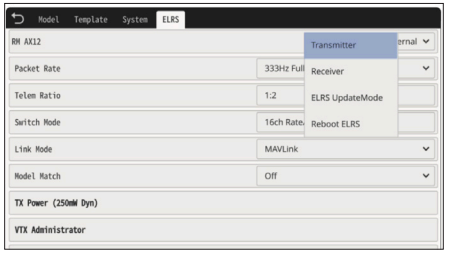
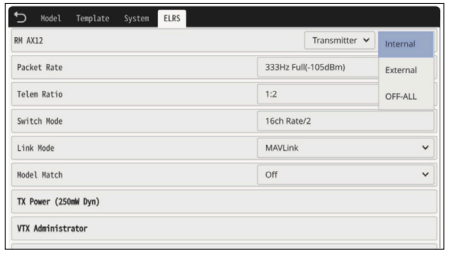
❶ **System Settings:** Enter System Settings
❷ **Model settings:** Enter Model Settings
❸ **Lock screen:** Lock the Screen
❹ **Home Screen:** Tap to return to Main Interface
❺ **Help:** Tap to display to Help and Settings

Main screen display:

1. **Joystick Position:** Graphical real-time display of joystick position.
2. **Model name and image:** Displays the current model name and image.
3. **Channel Output:** Real-time display CH01-CH08.
4. **Switchs:** Displays all switch positions in real time.
5. **Pots:** Displays the knob position in real time.
6. **6-position buttons:** Real-time display of 6 button positions.
7. **Timer T1/T2:** Display T1/T2 timer time, tap the gear icon to enter T1/T2 timer settings.



- **Activation mode:** Options include always-on, switch-triggered functions, and more.
- **Activation switch:** Set timer activation switch.
- **Start time:** When the start time is 00:00:00, it functions as a count-up timer. When any other time is set, it will switch to countdown mode.
- **Countdown:** Optional countdown announcement methods include mute, beep, or voice prompts.
- **Interval:** Countdown notification interval.
- **Reset Switch:** Set the timer reset switch.

ExpressLRS:

The ELRS page allows you to view and configure all ELRS functions, turn the ELRS RF module (transmitter) on/off, and select between the built-in or external ELRS module. Additionally, you can update the built-in ELRS RF module via the USB port on top of the transmitter.