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ApisQueen A300

ApisQueen A300 6CH 2.4GHz RC Transmitter and Receiver User Manual

Model: A300 | Brand: ApisQueen

INTRODUCTION

This manual provides detailed instructions for the ApisQueen A300 6-channel 2.4GHz RC Transmitter and Receiver. Designed for RC boats, this system offers reliable control with features such as cruise control, mixed control modes, and loss of control protection. Please read this manual thoroughly before operating your device to ensure proper function and safety.





Image: The ApisQueen A300 remote control and its corresponding 6-channel PWM receiver.

WHAT'S IN THE BOX

Upon opening your ApisQueen A300 package, you should find the following components:

- Remote control
- Receiver
- Charging cable

CONFIGURATION LIST

PACKAGING DISPLAY



Packing box



Velvet bag



remote control



synopsis



Lanyard



Charging Cable



Code Coder



Receiver

Image: The ApisQueen A300 package contents, showing the remote control, receiver, charging cable, lanyard, velvet bag, and synopsis.

SETUP

Receiver Wiring

Ensure correct polarity when connecting the receiver. Connecting positive and negative wires incorrectly can damage the motor.

2.4G TECHNOLOGY NON TOY



Rechargeable
Battery

Cruise control

Stable signal

Image: A detailed diagram illustrating the correct 'S' (signal), '+' (positive), and '-' (negative) connections for the six-channel PWM receiver. Incorrect connection can lead to motor damage.

Frequency Matching (Pairing)

To establish communication between the transmitter and receiver, frequency matching is required. Follow these steps:

1. Ensure the remote control is in a shutdown state.
2. Power the receiver/control box. The receiver's prompt light will slowly flash green.
3. Click the frequency matching button on the receiver. The receiver's green light will flash rapidly, indicating it has entered the frequency matching state.
4. Turn on the remote control. After successful frequency matching, the current battery voltage will be displayed in the lower left corner of the remote control screen. The top right corner will show the signal icon, confirming a signal is present.
5. The receiver's prompt light will be in a steady green state, indicating successful frequency alignment.

For a visual guide on the frequency matching process, please refer to the official tutorial video below:

Video: Official ApisQueen A300 Remote Control Corresponding Channel Video, demonstrating the frequency matching process between the transmitter and receiver.

Important: The receiver should be inserted into channels 1-5. Do not insert into the sixth channel!

OPERATING INSTRUCTIONS

Cruise Control

The remote control features a cruise control function for maintaining a fixed speed. Press the **OK** key to adjust the throttle constant speed. Push the throttle stick forward to increase the constant speed, and pull it back to reduce it, achieving the desired constant speed effect.



Image: A close-up view highlighting the 'OK' button for cruise control and the quality rocker on the ApisQueen A300 remote control.

Mixed Control Modes

- **1-Channel/2-Channel Mixed Control:** This mode allows channels 1 and 2 to control two motors simultaneously. It enables both forward/backward acceleration and differential steering functions.
- **3-Channel/4-Channel Mixed Control:** In this mode, one channel controls the signals of two channels (CH3/CH4) simultaneously. The channel output is a neutral point signal, enabling forward, stop, and reverse directions. This is typically used for controlling steering gear, winches, tank barrels, turrets, etc.

Locking Function

To prevent accidental adjustments, the remote control allows you to lock the direction fine-tuning key and throttle fine-tuning key.

Feature rich

6 channels can be independently set stroke.
can lock the buttons inside the CH1/CH2 channel.



Built-in lithium battery

1200MAH
rechargeable battery

Complete accessories

Comes with lanyard, charging cable, packaging bag



Image: This image showcases the ApisQueen A300 remote control's feature-rich design, including its 6 independent channels, built-in 1200mAh lithium battery, and the complete set of accessories provided.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ApisQueen A300 system.

- **Cleaning:** Regularly wipe the remote control and receiver with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Battery Care:** The remote control has a built-in 1200mAh lithium battery. Charge it using a 5V mobile phone charger. The charging port has an indicator light: red for charging, green for fully charged. Avoid overcharging or completely draining the battery for extended periods.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

This section addresses common issues you might encounter with your ApisQueen A300 system.

- **Loss of Control Protection:** The receiver features a loss of control protection function. If the receiver loses the transmission signal, the throttle channel will automatically revert to a preset value to prevent unintended operation. Ensure a strong signal connection during operation.
- **Pairing Issues:** If the remote control and receiver fail to pair, re-attempt the frequency matching process as described in the Setup section. Ensure the receiver's green light flashes rapidly when attempting to pair and becomes steady green upon success.
- **Power Issues (Receiver):** The receiver operates optimally with a 6V DC power source. While some users have reported issues with 9V DC, 6V DC has proven reliable. Ensure your power supply matches the recommended voltage.
- **Unresponsive Controls:** Check battery levels on both the transmitter and the connected device. Ensure all connections are secure and correctly inserted into the appropriate channels (1-5 for the receiver).

SPECIFICATIONS

Detailed technical specifications for the ApisQueen A300 Transmitter and Receiver:

| Feature | Specification |
|--------------------------------|--|
| Model | A300 |
| Product Dimensions | 3.5 x 1.6 x 1.8 inches |
| Item Weight | 7.8 ounces |
| Number of Channels | 6 |
| RF Range | 2.4GHz ISM |
| Modulation Mode | GFSK |
| Spread Spectrum Method | FHSS |
| Responding Speed (PWM) | ≤20ms |
| Receive Sensitivity | -96 dbm |
| RF Distance (Ground) | 300M |
| RF Distance (Air) | 800M |
| Transmit Power | ≈90MA |
| Receiver Power Supply Range | DC 4V-9V |
| Transmitter Power Supply Range | DC 4V-9V |
| Compatible Devices | RC Boat |
| Color | Black |
| Batteries | 1 Lithium Polymer batteries required. (included) |
| Manufacturer Recommended Age | 1 month - 3 years |

Note: Remote control distance is based on actual usage; different receiver antenna models and hull characteristics will affect performance. Marked distance is for reference only.

Remote
Control
Quick
Start
Guide

Rudder setting

1. Function Description
The stroke of each channel of the remote control can be adjusted.

2. Setting method
A. Remote control shutdown status;
B. Press and hold the channel key **【 5 】** of the remote control first, and then turn on the power switch of the remote control;
C. By pressing the corresponding channel button to adjust the stroke amount of the corresponding channel, the adjustment process can observe the stroke amount of the rudder in real-time.
D. Long press the channel key **【 5 】** to exit the setup.

【Note: The default stroke amount is the maximum, and there are 10 segments from the maximum stroke amount to the minimum stroke amount, which can be adjusted in cycles.】

Locking function

1. Function Description
To prevent misoperation, the remote control can lock the 1-channel and 2-channel fine-tuning keys.

2. Setting method
A. Remote control off state;
B. Press and hold the channel button of the remote control **【 6 】** first, and then turn on the power switch of the remote control;
C. The opening and closing directions of the lock are the same, and there will be icon prompts on the display screen.

Automatic shutdown

1. Function Description
To prevent forgetting to shut down, the remote control will enter the shutdown state after 15 minutes without any operation, and there will be an audio prompt 1 minute before the shutdown.

Battery Description

1. Instructions for use
A. Remote control built-in: 1200mAh lithium battery with charging function, please choose a 5V mobile phone charger for charger; Please turn off the power during the charging process. The charging port has an indicator light indicating that the red light is charging and the green light is fully charged.

Parameter

| | |
|---------------------|----------------|
| Model | DS 600 |
| Model type | Car/Ferry/Tank |
| Channels | 6 |
| RF range | 2.4GHZ ISM |
| RF power | ≈90MA |
| Modulation | GFSK |
| Spread spectrum | FHSS |
| Reaction speed | PWM≤20MS |
| RF distance | Ground≈: 300m |
| Receive sensitivity | -96dbm |
| Channel resolution | 4096 |
| Transmitter voltage | DC 4V-9V |
| Receiver voltage | DC 4V-9V |
| Gross weight | 80g |

Remote control distance is for reference only

Image: The ApisQueen A300 remote control alongside a table detailing its product parameters, including suitable type, number of channels, weight, distance, transmit power, modulation mode, spread spectrum method, responding speed, frequency range, receive sensitivity, receiver power supply range, and transmitter power supply range.

WARRANTY AND SUPPORT

For warranty information or technical support, please contact ApisQueen customer service directly. Refer to the product packaging or the official ApisQueen website for contact details.