WenzhiloT NAS-RT01W

WenzhiloT WiFi Smart Air Conditioner Controller (Model NAS-RT01W) Instruction Manual

Model: NAS-RT01W | Brand: WenzhiloT

1. Introduction

The WenzhiloT WiFi Smart Air Conditioner Controller (Model NAS-RT01W) is designed to upgrade traditional air conditioning units, including window, portable, and mini-split ACs, as well as heat pumps, into smart, app-controlled systems. This device allows for remote management, energy efficiency, and enhanced comfort through smart features and voice control integration.



Figure 1: WenzhiIoT WiFi Smart Air Conditioner Controller

2. Product Overview and Key Features

The NAS-RT01W controller integrates advanced technology to provide comprehensive control over your air conditioning system. Its compact design and intuitive interface make it a valuable addition to any smart home.

- **Smart AC Upgrade:** Transforms traditional window, portable, or mini-split air conditioners and heat pumps into smart, Wi-Fi-enabled devices.
- **Real-Time Monitoring:** Equipped with high-precision sensors for real-time temperature (±0.3°C) and humidity (±5% RH) monitoring.
- **Remote Access & Voice Control:** Control your AC from anywhere via the mobile app. Compatible with Amazon Alexa and Google Home for hands-free voice commands.
- **7-Day Customizable Scheduling:** Set detailed weekly schedules to optimize comfort and energy savings.
- **Universal IR Learning:** Supports 99% of air conditioner brands through intelligent infrared learning, allowing easy syncing with your original AC remote.
- **Quick Setup:** Automatic detection of AC brand and model over 2.4GHz Wi-Fi for fast and easy installation.
- **Child Lock Function:** Enhances safety by preventing unintended changes to settings.

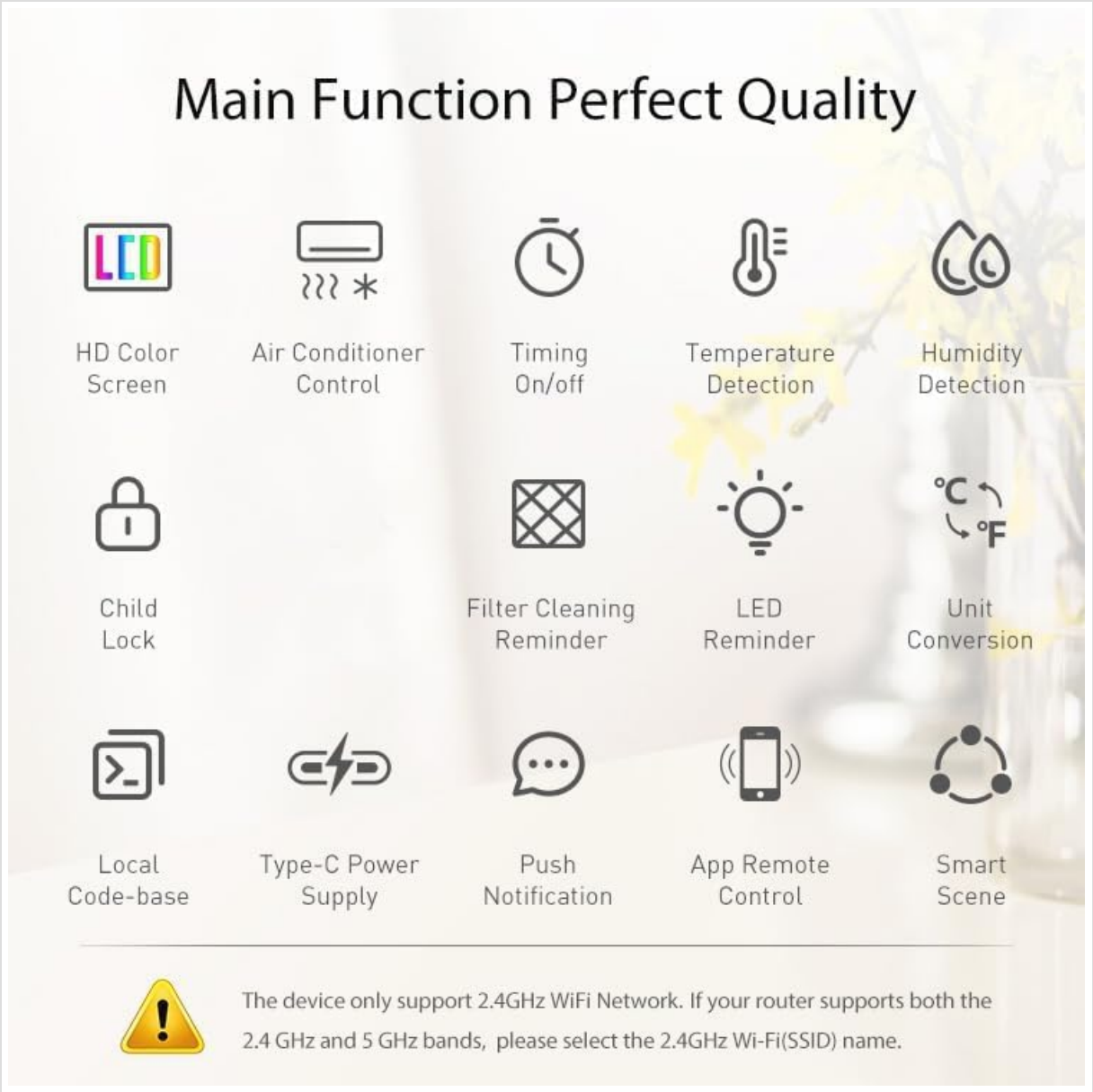


Figure 2: Main functions of the WenzhiIoT Smart Air Conditioner Controller

3. Package Contents

Ensure all items are present in the package:

- WenzhiIoT WiFi Smart Air Conditioner Controller (NAS-RT01W)
- Desktop Stand
- USB Cable
- Mounting Panel
- Temperature Sensor (integrated)
- User Manual (this document)

4. Setup and Installation

4.1 Physical Placement

The controller can be placed on a flat surface using the included stand or mounted on a wall using the mounting panel. Ensure the device is within direct line of sight of your air conditioner's infrared receiver for optimal performance.



Figure 3: Controller mounted on a wall

4.2 Power Connection

Connect the controller to a power source using the provided USB cable. The device is USB powered.

4.3 App Download and Device Pairing

1. Download the **Tuya Smart Life** app from your smartphone's app store (available on iOS and Android).
2. Register or log in to your account.
3. Ensure your smartphone is connected to a **2.4GHz Wi-Fi network**. The device only supports 2.4GHz Wi-Fi. If your router supports both 2.4GHz and 5GHz bands, select the 2.4GHz Wi-Fi (SSID) name.
4. Open the app and tap the '+' icon to add a new device.
5. Follow the on-screen instructions to put the controller into pairing mode. The device uses Bluetooth 5.0 for initial distribution network pairing.
6. Once the device is detected, proceed with the Wi-Fi configuration.
7. **Infrared (IR) Learning:** Point your original AC remote at the WenzhiIoT controller and follow the app's instructions to sync the remote's functions. The controller will automatically detect the AC brand and model.



Figure 4: Bluetooth Pairing and App Remote Control

5. Operating Instructions

5.1 App Control

Once paired, you can control your air conditioner from anywhere using the Tuya Smart Life app. Adjust temperature, fan speed, operating mode (cool, heat, fan, auto, dry), and other settings directly from your smartphone.



Figure 5: App Control Interface

5.2 Voice Control

The controller is compatible with Amazon Alexa and Google Home. Link your Tuya Smart Life account to your preferred voice assistant app to enable voice commands. For example, you can say, "Alexa, set living room AC to 22 degrees," or "Hey Google, turn on the bedroom AC."



Figure 6: Voice Control with Smart Assistants

5.3 Scheduling

Utilize the 7-day customizable scheduling feature in the app to automate your AC's operation. Set specific times for your AC to turn on/off, change temperature, or adjust modes to match your daily routine and save energy.

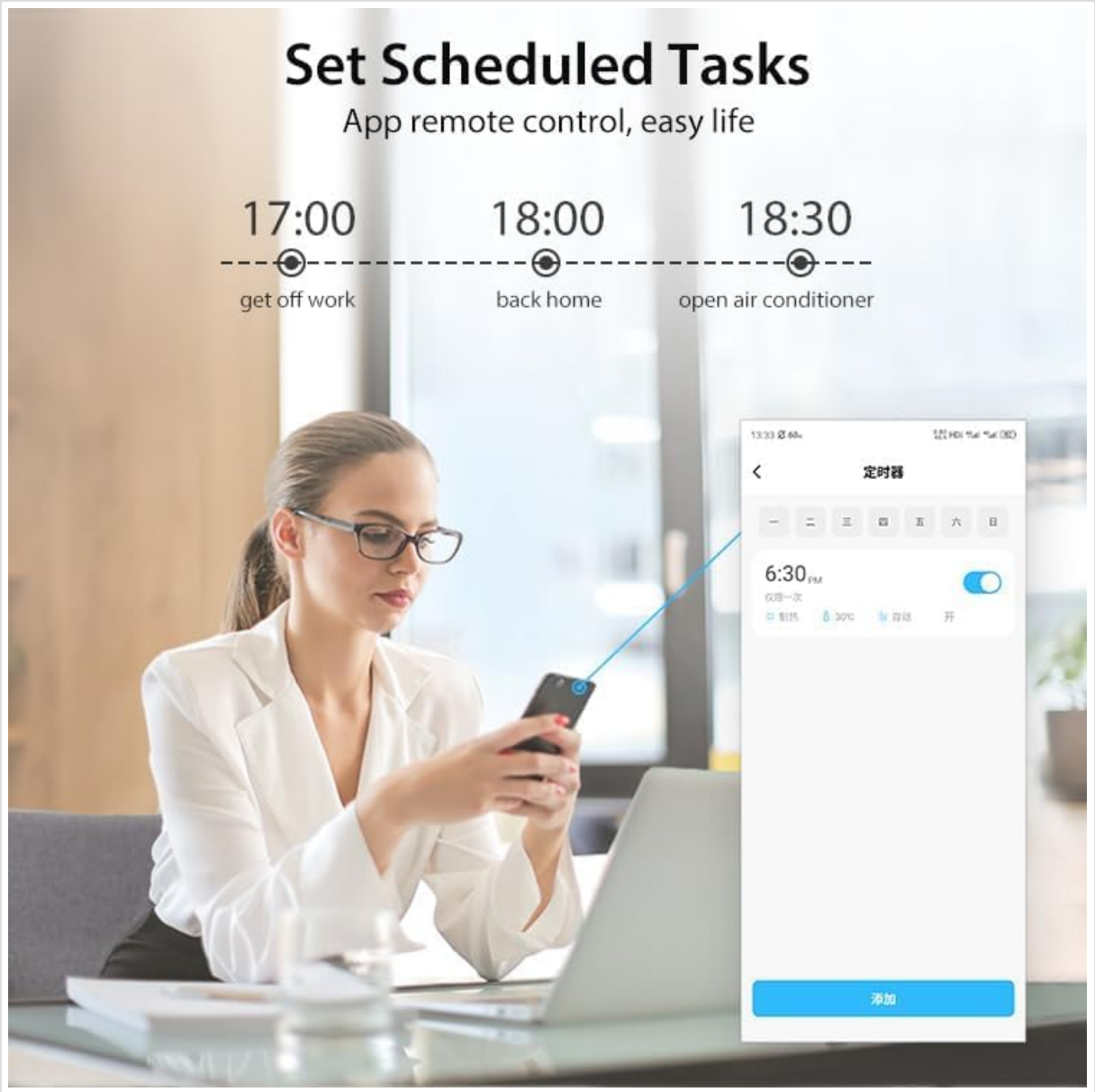


Figure 7: Setting Scheduled Tasks

5.4 Real-Time Temperature & Humidity Monitoring

The built-in sensors provide accurate real-time readings of your room's temperature and humidity. This data is displayed on the device's screen and within the app, allowing you to create smart scenes that automatically adjust your AC based on indoor conditions.



Figure 8: Accurate Temperature and Humidity Measurement

5.5 Child Lock Function

Activate the child lock feature through the app to prevent unauthorized access or accidental changes to your AC settings by children or others.



Figure 9: Child Lock Function

6. Maintenance

To ensure optimal performance and longevity of your WenzhiIoT Smart Air Conditioner Controller, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the device with a soft, dry cloth. Avoid using abrasive cleaners or solvents that may damage the surface.
- **Sensor Care:** Keep the temperature and humidity sensors clean and free from dust or obstructions to ensure accurate readings.
- **Firmware Updates:** Regularly check the Tuya Smart Life app for any available firmware updates for your device. Updates can improve performance and add new features.

7. Troubleshooting

If you encounter issues with your WenzhiIoT Smart Air Conditioner Controller, refer to the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the USB cable is securely connected to both the controller and a

working power source. Try a different USB port or adapter.

- **Unable to Pair with App:**
  - Verify your smartphone is connected to a 2.4GHz Wi-Fi network.
  - Ensure the controller is in pairing mode (refer to app instructions for specific indicator lights).
  - Move the controller closer to your Wi-Fi router during the pairing process.
  - Restart your Wi-Fi router and try pairing again.
- **Remote Control Not Responding:**
  - Ensure the controller has a clear line of sight to your AC unit.
  - Re-perform the IR learning process in the app to re-sync with your AC remote.
  - Check if your AC remote's batteries are working.
- **Voice Control Issues:**
  - Confirm that your Tuya Smart Life account is correctly linked to Amazon Alexa or Google Home.
  - Check your internet connection and the status of your voice assistant device.
  - Ensure the device name in the app is recognized by your voice assistant.

For further assistance, please refer to the support section within the Tuya Smart Life app or contact WenzhiIoT customer support.

8. Specifications

Brand	WenzhiIoT
Model Name	WiFi Smart Air Conditioner Controller
Item Model Number	NAS-RT01W
Controller Type	Mobile App, Voice Control
Special Features	Programmable, Remote Access, Humidity Monitoring, Child Lock, Universal IR Learning
Color	White
Specific Uses For Product	Air Conditioner, Heat Pump
Temperature Control Type	Smart/Remote
Connectivity Technology	Wi-Fi (2.4GHz)
Included Components	Smart Controller, Stand, USB Cable, Mounting Panel, Temperature Sensor
Power Source	USB Powered
Material	Metal, Plastic
Display Type	Digital

Mounting Type	Surface Mount
Item Weight	7.4 ounces
Package Dimensions	5.94 x 4.65 x 1.85 inches

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or contact WenzhiIoT customer service directly. You can often find support contact details within the Tuya Smart Life app or on the WenzhiIoT official website.