



ICs Robot Gadgets XY-W50L WIFI Electronic Clock Bluetooth Amplifier User Manual

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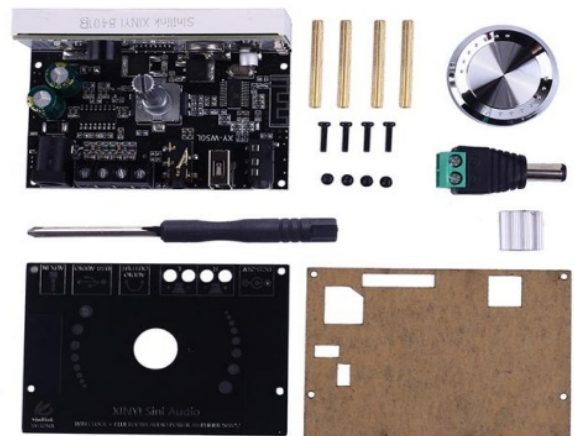
ICs & Robot Gadgets

ICs Robot Gadgets XY-W50L WIFI Electronic Clock Bluetooth Amplifier



Description

This neat little electronic clock will display the time digitally in dual formats, as well as act as a wireless amplifier that can be remotely controlled and configured to play music from its built-in auxiliary input, from Bluetooth, or via USB audio! It has a global time function, which means it can be used all over the world, with a selection of 6 programmable alarms and various brightness settings. It's exceptionally affordable and comes fully constructed.



Package List

Package List		
No.	Parts	Quantity
1	WIFI Electronic Clock Bluetooth Amplifier	1
2	Aluminum radiator	1
3	6mm knob cap	1
4	Aluminium Alloy Board	1
5	Acrylic Board	1
6	M2*26mm Copper column	4
7	M2*8mm screw	4
8	M2*3mm screw	4
9	DC converter	1
10	Screw driver	1

Features

- Wireless WIFI Electronic Clock
- 6 alarms and adjustable 8 levels brightness
- 12H or 24H hourly optional system
- Built-in global time zone
- Stereo dual channel
- Bluetooth/AUX/U-disk/USB sound card audio input
- Active/Passive audio output
- APP control and adjust time/date/day/Bluetooth

Parameters

1. Product name: XY-W50L WIFI Electronic Clock Bluetooth Amplifier
2. Model: XY-W50L
3. Work Voltage: DC 5V-24V
4. Work Current: 25A
5. Unique function: Sinilink APP control Bluetooth and Clock
6. Clock: WIFI Calibrate
7. Channel: 2.0 channel stereo output
8. Bluetooth: BLE 5.0
9. Audio input type: Bluetooth/AUX/U-disk/USB sound card
10. Audio output type: Left/Right/AUX
11. Adjust volume: Encoder independent adjustment
12. Output power: 50W*2
13. Match speaker: 10W-100W/4ohm-8ohm
14. Communication distance: 15meter(Max)

15. Over temperature protection: Yes
16. Short circuit protection: Yes
17. Over current protection: Yes
18. Work Temperature:-40°C~85°C
19. Work Humidity:0%~95%RH
20. Module Size(Installed):72*50*43mm

WIFI Clock Function

1. Wireless WiFi auto-calibrates time and time zone.
2. App remote firmware auto-upgrade.
3. 0.8inch LED display screen.
4. Display time and date.
5. Programmable 6 alarm clocks.
6. Programmable 8 brightness levels.
7. Built-in global time zone. Automatically check the time every hour.
8. Built-in clock battery to make sure the real-time clock.
9. Optional automatic power-saving function. The screen will OFF without any operation in 10 seconds if enable power-saving function.
10. Auto save setting parameters

Set WIFI Clock

1. **Adjust screen brightness:** Press the ' UP ' or ' DOWN ' button to adjust screen brightness.
2. **Set time and date:**
 1. Keep pressing the ' SET ' button for 1-second and enter into set time and date mode.
 2. Set 12/24H: Then press the ' UP ' or ' DOWN ' button to select 12H or 24H.
 3. Set Hour: Press the short ' SET ' button for the 1st time and then press the ' UP ' or ' DOWN ' button to change the value.
 4. Set Minute: Press the short ' SET ' button for the 2nd time and then press the ' UP ' or ' DOWN ' button to change the value.
 5. Set Month: Press the short ' SET ' button for the 3rd time and then press the ' UP ' or ' DOWN ' button to change the value.
 6. Set Day: Press the short ' SET ' button for the 4th time and then press the ' UP ' or ' DOWN ' button to change the value.
 7. Set Year: Press the short ' SET ' button for the 5th time and then press the ' UP ' or ' DOWN ' button to change the value.
 8. Set 12/24H: Press the short ' SET ' button for the 6th time and then press the ' UP ' or ' DOWN ' button to 12H or 24H hourly optional system.
 9. Save and exit: Keep pressing the ' SET ' button for 1 second to save parameters and return to normal display status.
3. **Set Alarm:**
 1. Keep pressing the ' SET ' button for 3 seconds to enter into set alarm mode.

2. Short press ' SET ' to switch set parameters.
3. Press the ' UP ' or ' DOWN ' button to set the parameter's value.
4. Symbol 'A1.ON' means turn ON the 1st alarm. The same for A2.ON to A6.ON.
5. Symbol 'A1.OF' means turn off the 1st alarm. The same for A2.OF to A6.OF.
6. There are 6 alarm clocks in total. Users can choose how many alarm clocks to enable according to needs.
7. Save and exit: Keep pressing the ' SET ' button for 1 second to save parameters and return to normal display status.

4. Set Power Saving Mode:

1. Keep pressing the ' UP ' button for 1-second enter to turn ON or OFF power-saving mode.
2. Symbol ' LP: ON ' means turn ON power-saving mode. The screen will OFF without any operation in 10 seconds if enable power-saving function. Press any button to turn ON the screen.
3. Symbol ' LP: OF ' means turn OFF power-saving mode. The screen will keep ON in this mode.

5. Set display mode:

1. Keep pressing the ' DOWN ' button for 1 second at normal display status to set display mode.
2. Only display time.
3. Display time and day in turns.

6. APP WIFI Clock Control:

1. Keep pressing the ' SET ' button for 5 seconds and enter into Touch WIFI pairing mode at running status. The Blue LED indicator flashes 4 times every 1-second interval at Touch pairing mode.
2. Keep pressing the ' SET ' button for 5 seconds again and enter into AP WIFI pairing mode after Touch mode. The Blue LED indicator flashes continuously and rapidly at AP pairing mode.
3. Enter Touch WIFI pairing mode by default after power ON.
4. Open APP Sinilink ((please download via Google Play Store) and register an account.
5. Select and click Touch(select AP mode if pairing fails)
6. Input your WIFI password and then next. **Note:** It just can support a 2.4GHz WIFI signal but not support 5GHz WIFI.
7. Set device information and then connect.
8. Select AP mode by pressing the ' SET ' button for 5 seconds if pairing fails at Touch mode. User needs select WIFI network 'Sinilink Product' and input password 12345678. Then open APP and select AP mode.

7. APP Bluetooth Control:

1. Open APP Sinilink (please download via Google Play Store) and register an account if need control by APP.
2. Select add device and then click the Bluetooth logo.
3. Then click Search Bluetooth.
4. Select devices 'Sinilink-APP' to connect the module.
5. Users can adjust volume, select next or previous, play/pause, and select EQ.
6. The module will speak prompt voice if disconnected.

8. Use steps:

1. Choose the right speaker and connect as shown in the wiring diagram.
2. Connect to right power supply from input terminal. An LED indicator will flash and it means that the module enters pairing mode. And then speak prompt voice and it means that module is waiting for pairing.

3. Turn ON Bluetooth on phone.
4. Select Bluetooth device 'XinYi' in your Bluetooth device listing.
5. The LED indicator will keep ON and it means that the module is successfully connected and is waiting for playing.
6. The module will play music after selecting music on phone. The LED indicator will keep slowly blinking.
7. Pairing APP Sinilink to set the clock or control Bluetooth music as required.

9. Application:

1. Car Music Clock
2. Remote alarm clock synchronization prompt
3. Modified/repaired/replace speaker
4. Amplifier equipment for training/activity site and so on
5. Car Bluetooth device
6. Music Festival Party
7. Family entertainment and leisure
8. Games and Cinema

10. Note:

1. Put XY-W50L, Router, and phone together as much as possible when pairing for the WIFI clock. Phone must connect WIFI to this router when pairing.
2. Recommended power supply voltage DC 12V~24V with more than 2A current. The module will be damaged if the input voltage is more than 24V.
3. Please don't use too long wires to avoid signal interference.
4. There can be enough power output only when the audio input is sufficient and the power supply voltage/current input is sufficient.
5. The higher the power supply voltage, the greater the output power.
6. The smaller the impedance of the speaker, the greater the output power. It is recommended to use a 4ohm speaker.

11. Frequently Asked Questions:

1. Q: How to choose a power supply adapter?

A: The power supply of the module is very critical. The user must pay enough attention to the power supply. Otherwise, it may not work properly. The ripple of the selected power supply must be small. A power supply with a large ripple will cause the background noise of the power amplifier board to become larger and there will be current sound. It needs a 5.5*2.1mm or 5.5*2.5mm power adapter and it is recommended to use a 12V/24V power supply with a current of more than 2A. The higher the voltage and the higher the current than the better the output power. It is better to connect a 4ohm speaker if the power voltage is less than 21V. It is recommended to use 24V voltage if using an 8ohm speaker.

Note: It will be damaged if the input voltage is more than 24V. If the voltage is too low, the sound will be distorted after the sound is amplified. If the current is too small, the speaker cannot be driven to work or the speaker will pull the voltage low and resulting in abnormal operation or poor sound quality. Adjusting the volume to the maximum may be distorted and affect the sound quality if input low power adapter such as 9V/12V or 1A/2A adapter.

2. Q: How to choose a speaker?

A: Commonly used speakers are generally 4ohm~8ohm. The speaker not need to distinguish between positive and negative polarity. The speakers need to be connected to full-range speakers or high-

frequency speakers and the power is between 10W~100W. The rated power is 50W*2. It can also work properly if the speaker has low power such as 20W~50W. But it needs to connect to a low-power adapter such as less than 15V to prevent damage to the speaker. Users don't have to worry about the problem of the speaker burning out if connect to a 50W~100W speaker. A module can connect 12V~24V. The higher the voltage selected, the greater the sound or power that can be output.

Note: Speaker power cannot exceed 100W, otherwise it will affect the sound quality.

3. **Q: How to choose Bluetooth or AUX audio input mode?**

A: AUX/USB mode has priority over Bluetooth mode. Users need to disconnect AUX or USB if using Bluetooth as an input audio signal. The priority of connecting first is high for AUX and USB.

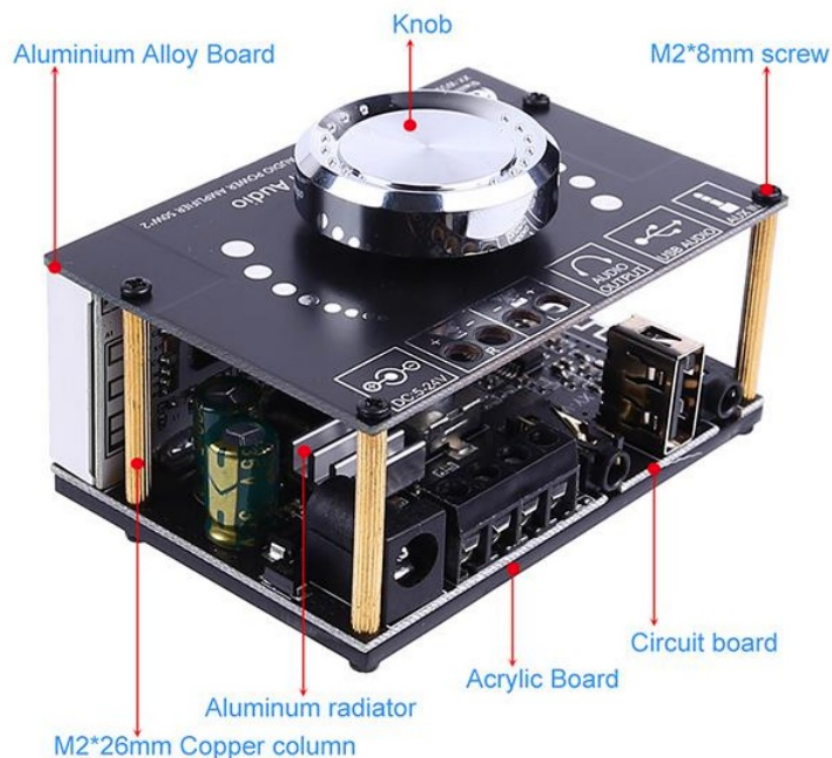
4. **Q: Why is the volume working normally when the volume is small and there is turbidity after increasing volume?**

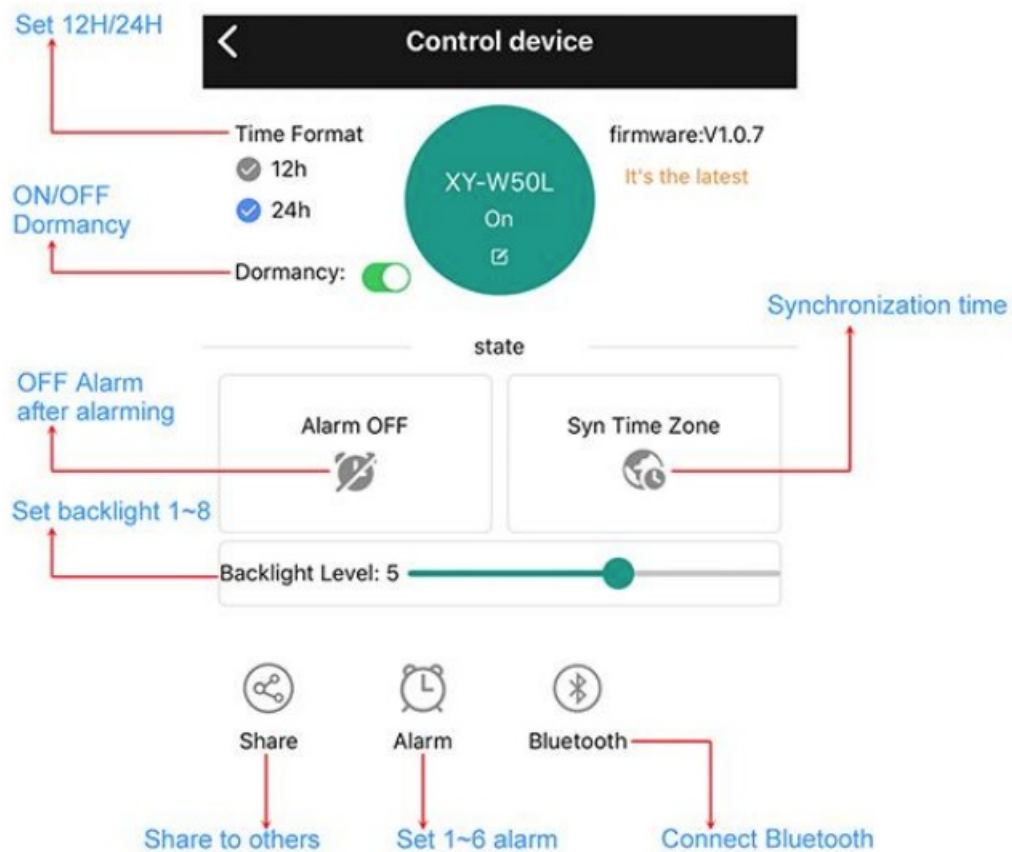
A: The input power is insufficient. Please change the adapter power supply to higher voltage and current. The power supply itself has intermittent power-off protection. Please change a match power adapter. The power of the power supply is too large so please reduce the power of the input power. The power amplifier board is seriously heated resulting in trigger overheat protection. So please increase the radiator.

5. **Q: What factors are related to sound quality?**


A: The sound quality is not only related to the power amplifier module but also related to the power supply, sound source, and the entire sound system.

Basically, every factor of the sound system will affect the sound quality. The main factors include the audio transmission line, audio power supply, tone circuit, power amplifier circuit, speaker, and surrounding environment. The sound quality is the best when the sound source, power supply, power amplifier module, and speaker match.





Documents / Resources

	<p>ICs Robot Gadgets XY-W50L WIFI Electronic Clock Bluetooth Amplifier [pdf] User Manual Amplifier, Bluetooth, WIFI Electronic Clock, WIFI, XY-W50L</p>
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References

- [ICStation Developing and Providing Worldwide With IC Accessories, Raspberry Pi, Robots, Arduino compatible Dev. Board and Modules](#)