



Manuals.plus /

› XWXLIJV /

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1. PRODUCT OVERVIEW

The XWXLIJV Remote Key Frequency Tester CNBJ-501 is a portable digital frequency meter designed for accurately testing the frequency and infrared signals of various remote control devices. It provides a clear digital display of the measured frequency and indicates infrared signal functionality, aiding in the diagnosis and adjustment of remote controls.



Figure 1: Front view of the XWXLIV Remote Key Frequency Tester CNBJ-501.

This device is suitable for a wide range of applications, including electric door controllers, car burglar alarms, electric locks, garage door remote controls, and access control systems.

2. COMPONENTS AND CONTROLS



Figure 2: Labeled diagram of the tester's components.

The tester features a 4-bit digital display, an infrared input LED, a lighting button, a power switch button (ON/OFF), a testing region (TX Zone), a battery replacement area, and a fall-proof rope attachment point.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment on the back of the device.
2. Slide open the battery compartment cover.
3. Connect a 9V 6F22 battery (not included) to the battery connector inside the compartment, ensuring correct polarity.
4. Place the battery into the compartment and close the cover securely.

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Video 1: Demonstrates battery installation and initial power-on of the frequency tester.

3.2 Powering On

Press the ON/OFF button located on the front panel to power on the device. The digital display will illuminate.

4. OPERATING INSTRUCTIONS

4.1 Frequency Testing

1. Ensure the tester is powered on.
2. Place the remote control device within 5cm of the 'TX Zone' on the tester. For optimal accuracy, position the remote as close as possible to this zone.
3. Press any button on the remote control. The tester's digital display will show the frequency value in MHz.



Figure 3: Testing a car key remote's frequency. The display shows the measured frequency.

it can also test the goodness of infrared sensing

✓ fallproof

✓ wear resistant

✓ with nice durability



Figure 4: The tester can also detect infrared signals, indicated by the IR LED.

4.2 Infrared Signal Detection

1. While testing the frequency, observe the 'IR' indicator light.
2. If the remote control emits an infrared signal, the 'IR' indicator light will flash red, confirming proper infrared output.

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Video 2: A short demonstration of the frequency tester in action, showing how to test a remote key fob.

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Video 3: Demonstrates testing various remote keys for frequency and infrared signals.

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Video 4: Shows the frequency tester being used to check a remote control's signal.

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Video 5: A brief preview demonstrating the portable frequency counter's function.

4.3 Using the Built-in Light

Press the 'Lighting' button to activate the built-in LED light. This feature is useful for operating the tester in low-light conditions.



Figure 5: The tester's built-in LED light provides illumination in dark environments.

5. MAINTENANCE

- Keep the device clean and dry. Avoid exposure to moisture or extreme temperatures.
- When the display becomes dim or the device does not power on, replace the 9V battery.
- Store the device in a safe place to prevent physical damage. The included fall-proof rope can be used to secure the device during use.

6. TROUBLESHOOTING

6.1 No Frequency Display

- Ensure the remote control is within the effective testing range (within 5cm) of the 'TX Zone'.
- Verify that the remote control's battery is not depleted.
- Check if the tester's battery is sufficiently charged.

6.2 IR Indicator Light Does Not Flash

- If the IR indicator light does not illuminate when a remote button is pressed, it suggests a potential malfunction or damage to the remote control's infrared transmitter.
- Confirm the remote control uses infrared technology; some remotes use radio frequency only.

7. SPECIFICATIONS

Feature	Detail
Test Frequency Range	100 MHz - 1 GHz
Effective Testing Range (IR)	Within 5 cm
Power Source	9V 6F22 Battery (Not included)
Working Conditions	-10 °C - 40 °C
Working Relative Humidity	≤ 80%
Storage Conditions	-20 °C - 50 °C
Storage Relative Humidity	≤ 85%
Item Weight	1.76 ounces (50 Grams)
Package Dimensions	1.18 x 0.79 x 0.39 inches

8. WARRANTY AND SUPPORT

This XWXLIVJ product comes with a 12-month warranty. For any questions or support regarding your purchase, please contact the seller. They are committed to resolving any issues within 24 hours.