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Cruiser XQ-350

Cruiser XQ-350 Network Cable Tester and Wire Tracker User Manual

Model: XQ-350

INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your Cruiser XQ-350 Network Cable Tester and Wire Tracker. This device is designed to assist in tracing network and telephone cables, verifying LAN cable conditions, and performing continuity tests. Please read this manual thoroughly before use to ensure proper and safe operation.



Image: The Cruiser XQ-350 Network Cable Tester and Wire Tracker, showing the emitter, receiver, and included cables (RJ11, RJ45, alligator clip cable) and earphones.

PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x Emitter Unit
- 1x Receiver Unit
- 1x Earphone (90cm)
- 1x RJ11 Telephone Cable
- 1x Cable with Crocodile Clamp
- 1x RJ45 Network Cable
- 1x User Manual (this document)

- 1x Storage Bag

Product configuration list

1. Transmitter
2. Receiver
3. RJ45 adapter
4. RJ11 adapter
5. Alligator clip adapter
6. Toolkit
7. Instructions for use
8. Color box



Image: A visual representation of all components included in the Cruiser XQ-350 package, including the emitter, receiver, various cables, earphones, and storage bag.

PRODUCT OVERVIEW

Familiarize yourself with the components and interfaces of the Cruiser XQ-350.

Parts Description

Parts description



Image: Detailed diagram labeling the various parts of the emitter and receiver units, including RJ11/RJ45 sockets, probe, power button, volume adjustment, and indicator lights.

Key Components:

- **Emitter:** The unit that generates the signal for tracing and testing. Features RJ11 and RJ45 ports, a function selector switch (SCAN, OFF, TEST), and status indicators.
- **Receiver:** The unit used to detect the signal from the emitter. Features a probe, power button, signal indicator, volume

adjustment, and RJ45 port.

- **RJ45 Interface:** Used for testing and tracing network cables (Cat5, Cat6 Ethernet LAN cables).
- **RJ11 Interface:** Used for testing and tracing telephone lines.
- **Probe:** Located on the receiver, used to pinpoint the signal from the emitter.
- **Volume Adjustment:** A dial on the receiver to adjust the sound level of the detected signal.
- **Headphone Jack:** For connecting earphones to hear the signal in noisy environments.



Image: A close-up view highlighting the RJ45 and RJ11 interfaces on both the emitter and receiver units, indicating their respective functions for network and telephone cable connections.

SETUP

Battery Installation:

Both the Emitter and Receiver units require a 9V battery (not included). To install:

1. Locate the battery compartment cover on the back of each unit.
2. Slide the cover open.

3. Connect a 9V battery to the battery clip, observing correct polarity.
4. Place the battery into the compartment and close the cover securely.

The device features a low battery indication. Replace batteries when the indicator light signals low power to ensure accurate operation.



Image: The open battery compartments of both the emitter and receiver units, showing where to insert the 9V batteries.

OPERATING INSTRUCTIONS

1. Wire Tracing (SCAN Mode):

This function helps locate a specific wire among a bundle of cables.

1. Connect the desired cable (RJ45, RJ11, or alligator clip cable) to the corresponding port on the **Emitter** unit.
2. Set the **Emitter's** function selector switch to **SCAN**.
3. Turn on the **Receiver** unit by pressing the POWER button.
4. Adjust the **Receiver's** volume/sensitivity dial as needed. For noisy environments, connect the earphones.
5. Move the **Receiver's** probe along the cable bundle. The signal indicator lights will illuminate, and an audible tone will be emitted.
6. The cable with the strongest signal (highest volume and brightest indicator) is the target wire.

Precise line hunting and easy operation

It is easy to find the corresponding network cable/telephone cable



Image: A user demonstrating the wire tracing function, holding the receiver unit with its probe near a bundle of yellow network cables connected to a switch, indicating precise line hunting.

2. LAN Cable Testing (TEST Mode):

This function verifies the condition of LAN cables (RJ45) for open circuits, short circuits, and cross-connections.

1. Connect one end of the RJ45 LAN cable to the RJ45 port on the **Emitter**.
2. Connect the other end of the RJ45 LAN cable to the RJ45 port on the **Receiver**.
3. Set the **Emitter's** function selector switch to **TEST**.
4. Observe the line sequence indicators on both the Emitter and Receiver.
5. The lights (1-8, G) on both units should illuminate in sequence. Any deviation indicates a fault:
 - **No light:** Open circuit (broken wire).
 - **Lights on both ends but different sequence:** Cross-connection.
 - **Multiple lights on one end, none on the other:** Short circuit.

Line sequence indicator Line up at a glance

After making the crystal head
Use a tracer to test network
continuity



Image: The emitter and receiver units connected by an RJ45 network cable, demonstrating the line sequence indicator lights during a continuity test, showing the alignment of pins.

3. Telephone Line Testing (2-wire):

This function allows for testing the state of a 2-wire telephone line (RJ11).

1. Connect the RJ11 telephone cable to the RJ11 port on the **Emitter**.
2. Set the **Emitter's** function selector switch to **TEST**.
3. The device can detect DC voltage, determine anode/cathode, and detect ringing signals.
4. It can also perform open, short, and cross testing for 2-wire telephone cables.

4. Adjusting Sensitivity/Volume:

The receiver unit features an adjustable sensitivity/volume dial to optimize signal detection.

- Turn the dial to increase sensitivity and volume when the received signal is weak.
- Decrease sensitivity and volume in environments with strong interference or when the signal is too loud.
- For best results in noisy environments, use the included earphones.

Adjustable sensitivity

side switch

Adjustable sensitivity/volume



Headphone function

in a noisy environment
Can be operated with headphones
Avoid external interference

Sensitivity/Volume Adjustment

When the received signal is weak
Adjustable large value gear
Vice versa



Image: A detailed view of the receiver unit's side, highlighting the headphone jack and the adjustable sensitivity/volume dial, with text explaining their functions.

MAINTENANCE

- Keep the device clean and dry. Wipe with a soft, damp cloth if necessary. Do not use abrasive cleaners or solvents.
- Store the device in its protective bag when not in use to prevent damage.
- Remove batteries if the device will not be used for an extended period to prevent leakage.
- Avoid dropping the device or subjecting it to strong impacts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power / Device does not turn on.	Dead or incorrectly installed battery.	Check battery polarity. Replace with a new 9V battery.
Weak or no signal during wire tracing.	Low battery; Emitter not in SCAN mode; Receiver sensitivity too low; Cable not properly connected.	Replace battery. Ensure Emitter is in SCAN mode. Increase Receiver sensitivity. Verify cable connections.
Incorrect LAN cable test results.	Emitter not in TEST mode; Cable faulty; Poor connection.	Ensure Emitter is in TEST mode. Re-crimp cable ends or try a known good cable. Ensure secure connections.
Excessive noise or interference.	High electromagnetic interference; Receiver sensitivity too high.	Lower Receiver sensitivity. Use earphones for clearer signal. Move away from strong electrical sources.

SPECIFICATIONS

- **Power:** DC 9V battery (not included)
- **Working Current (Emitter):** $\leq 10\text{mA}$
- **Working Current (Receiver):** $\leq 30\text{mA}$
- **Signal Transmission Format:** Multiple frequency pulse
- **Signal Output Electric Status:** 8VP-P
- **Distance of Signal Transmission:** $\leq 3\text{km}$
- **Material:** ABS plastic
- **Item Weight:** Approximately 11.3 ounces (320g)
- **Model Number:** XQ-350
- **UPC:** 617332374305

WARRANTY AND SUPPORT

For warranty information or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt as proof of purchase.

