ERMENRICH NP35 Netgeeks Network Cable User Manual

ERMENRICH by levenhuk

ERMENRICH NETGEEKS NP3S
NETWORK CABLE TESTER

User Manual

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NP35 Netgeeks Network Cable

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Please carefully read the safety instructions and the user manual before using this product. Keep away from children. Use the device only as specified in the user manual.
The kit includes: transmitter, receiver, RJ11 patch cord, RJ45 patch cord, wire with alligator clips, Type-C USB cable, DC cable, earbuds, user manual, and warranty.

Getting started

Transmitter
Shift the three-position switch (1) to the upper position (ON) to turn the transmitter on.
Shift the three-position switch (1) to the middle position (OFF) to turn the transmitter off.
Shift the three-position switch (1) to the lower position (TONE) to switch the transmitter to the Telephone line status test mode.
Receiver
Turn the sensitivity adjustment knob (18) clockwise to turn the receiver on.
Turn the sensitivity adjustment knob (18) counterclockwise to turn the receiver off.
Charging the device
The transmitter and the receiver use rechargeable lithium polymer batteries. Connect the USB-cable to the device and the DC adapter via a USB plug and connect it to the AC power supply to charge the device.

Usage

The default mode is dual: Cable tracing / Wire mapping. Press the SCAN button (20) to switch between these two modes.
When the device is in Cable tracing mode, the SCAN button (20) steadily glows.
When the device is in Wire mapping mode, the SCAN button (20) blinks.
Wire mapping
This function is used to check if the wires within the cable are connected correctly.

1. Switch the device to Wire mapping mode.
2. Plug one end of the cable into the RJ45 port (11) on the transmitter and the other end into the RJ45 port (24) on the receiver.

The results are shown with the corresponding LEDs (9, 19). Possible outcomes are shown below:

Normal: The LEDs on the transmitter and on the receiver will blink green on e by one. Transmitter: 1-2-3-4-5-6-7-8 Receiver: 1-2-3-4-5-6-7-8	**Short:** If pins 2 and 5 are short-ci rcuited, the corresponding LEDs on the transmitter and LEDs on t he receiver will have a weak glow . Transmitter: 1-2-3-4-5-6-7-8 Receiver: 1-2-3-4-5-6-7-8 Transmitter: 1-2-3-4-5-6-7-8 Receiver: 1-2-3-4-5-6-7-8
Open: If pin 2 is open, the corresponding LEDs on the transmitter and on th e receiver will not glow. Transmitter: 1-x-3-4-5-6-7-8 Receiver: 1-x-3-4-5-6-7-8	**Cross:** If pins 2 and 5 are cross-connected, the corresponding LE Ds on the transmitter and on the r eceiver will blink in the same man ner. Transmitter: 1-2-3-4-5-6-7-8 Receiver: 1-5-3-4-2-6-7-8

Cable tracing

This function is used to locate the target cable in a cable bundle.
Switch the Cable tracing mode on.
Network cable tracing

1. Plug the loose end of the network cable into the RJ45 port (11) on the transmitter; the other end is connected to the network equipment (such as a network switch, router, etc.).
2. Place the receiver near the cable bundle and move the receiver along the cable to trace it. When the sensor is in the close proximity to the target cable, the receiver will emit a beeping sound. To detect the cable more accurately, lower the sensitivity. The closer the device is to the object, the louder the signal will be.

Telephone cable tracing

1. Plug the loose end of the cable into the RJ11 port (10) on the transmitter; the other cable end is connected to a telephone line.
2. Place the receiver near the cable bundle and move the receiver along the cable to trace it. When the sensor is in the close proximity to the target cable, the receiver will emit a beeping sound. To detect the cable more accurately, lower the sensitivity. The closer the device is to the object, the louder the signal will be.

Cable crimping quality check
This function is used to check the quality of cable ends crimping for the proper connection of conductors to pins.

1. Press the QC button (6) to switch to Quality check mode to test cable connectors. When the device is in Quality check mode, the QC button (6) will glow steadily.
2. Plug one end of the testing cable into the QC port (12) and leave the other cable end disconnected.

Possible outcomes are shown below:

Network cables If all contacts are normal, all the corresponding LEDs (8) on the transmitter will glow as follows: 1-2-3-4-5-6-7-8 In case of faulty contact, a corresponding LED on the e mitter will not glow: 1-x-3-4-5-6-7-8	**Telephone cables** If all contacts are normal, all the corresponding LEDs (8) on the transmitter will glow as follows: RJ-12 (6P6C) normal: x-2-3-4-5-6-7-x RJ11 (6P4C) normal: x-x-3-4-5-6-x-x RJ-11 (6P2C) normal: x-x-x-4-5-x-x-x In case of faulty contact, a corresponding LED on the e mitter will not glow.

Port Flash function
This function is used to locate an exact port on a network switch or on a router to which the tested cable is connected.

1. Press the FLASH button (7) to enter the Port Flash function mode. When the device is in the Port Flash mode, the FLASH button (7) and the Port Flash indicator (3) steadily glow.
2. Plug one end of the network cable into the RJ45 port (11) on the transmitter, and the other end is connected to the network equipment (such as a network switch, router, etc.).
   The Port Flash indicator (3) on the transmitter will flash with the same frequency as the LED of the target port on the network switch/router, and different from the other LEDs.
   When a PoE cable is connected, the corresponding Wire mapping / Port Flash indicators (9) will glow to identify the pins that provide power over Ethernet.

Telephone line status test
This function is used to detect the telephone line status.

1. Shift the three-position switch (1) to the lower position (TONE) to switch the transmitter to the Telephone line status test mode.
2. Plug the loose end of a telephone into the RJ11 port (10) of the transmitter, the other end of the telephone cable is connected to a telephone line. You can use the wire with the alligator clips, if needed.
   If the Telephone line indicator (2) steadily glows, the telephone line is standby.
   If the Telephone line indicator (2) blinks green and red, the telephone is ringing.
   If the Telephone line indicator (2) dims and goes off, the telephone line is busy.

! The indicator light color depends on the polarity of the telephone line.

Polarity test
This function is used to define the polarity of wires.

1. Shift the three-position switch (1) to the lower position (TONE) to switch the transmitter to the Telephone line status test mode.
2. Plug the loose end of a telephone into the RJ11 port (10) of the transmitter, the other end of the telephone cable is connected to a telephone line. You can use the wire with the alligator clips, if needed.
   If the Telephone line indicator (2) glows green, it means that the telephone line 3P (black clip) is positive, and the telephone wire 4P (red clip) is negative.
   If the Telephone line indicator (2) glows red, it means that the telephone line 3P (black clip) is negative, and the telephone wire 4P (red clip) is positive.

Non-contact voltage detection function (NCV)
This function is used to detect voltage without having to touch the cables.
Press the NCV button (21) on the receiver. Hold the sensor (14) up to a wire, socket, or any surface with hidden wiring. If the device detects the voltage above 40V AC, the receiver emits a warning sound. The closer the device is to the object, the louder the signal will be.

Specifications

Tracing cable types	STP/UTP (CAT5, CAT6) network cable, telephone cable
Testing cable types	STP/UTP (CATS, CAT6) network cable
Cable tracing	+
Wire mapping	+
NCV (non-contact voltage detection) fu nction	+
Port Flash function	+
Telephone line status test	+
Polarity test	+
Operating temperature range	-10… +40°C / +14… +104°F
Power supply	transmitter: 3.7V 1400mA-h rechargeable lithium polymer battery recei ver: 3.7V 1400mA-h rechargeable lithium polymer battery

The manufacturer reserves the right to make changes to the product range and specifications without prior notice.
Care and maintenance
Do not use the device to detect live power lines (such as 220V power supply lines) as it will damage the device. In order to avoid lightning strikes, do not use the device during thunderstorms. Do not exclusively rely on the device to locate items behind scanned surfaces. Do not try to disassemble the device on your own for any reason. For repairs and cleaning of any kind, please contact your local specialized service center. Protect the device from sudden impact and excessive mechanical force. Store the device in a dry cool place. Only use accessories and spare parts for this device that comply with the technical specifications. Never attempt to operate a damaged device or a device with damaged electrical parts! If a part of the device or battery is swallowed, seek medical attention immediately.
Battery safety instructions
Always purchase the correct size and grade of battery most suitable for the intended use. Always replace the whole set of batteries at one time; taking care not to mix old and new ones, or batteries of different types. Clean the battery contacts and also those of the device prior to battery installation. Make sure the batteries are installed correctly with regard to polarity (+ and -). Remove batteries from equipment that is not to be used for an extended period of time. Remove used batteries promptly. Never short-circuit batteries as this may lead to high temperatures, leakage, or explosion. Never heat batteries in order to revive them. Do not disassemble batteries. Remember to switch off devices after use. Keep batteries out of the reach of children, to avoid risk of ingestion, suffocation, or poisoning. Utilize used batteries as prescribed by your country's laws.
Levenhuk International Warranty
Levenhuk products, except for their accessories, carry a 5-year warranty against defects in materials and workmanship. All Levenhuk accessories are warranted to be free of defects in materials and workmanship for six months from the purchase date. The warranty entitles you to the free repair or replacement of the Levenhuk product in any country where a Levenhuk office is located if all the warranty conditions are met.
For further details, please visit: **www.levenhuk.com/warranty**
If warranty problems arise, or if you need assistance in using your product, contact the local Levenhuk branch.

Documents / Resources

	ERMENRICH NP35 Netgeeks Network Cable [pdf] User Manual NP35 Netgeeks Network Cable, Netgeeks Network Cable, Network Cable, Cable

References

- Доживотна гаранция на Levenhuk – Официален уебсайт на Levenhuk в България
- Doživotní záruka společnosti Levenhuk – Oficiální webové stránky Levenhuk pro Českou republiku
- Levenhuk Lebenslange Garantie – Die offizielle Website von Levenhuk in Deutschland
- Levenhuk Lifetime Warranty – Levenhuk's official website in USA
- A Levenhuk élettartamra szóló szavatossága – A Levenhuk hivatalos magyarországi weboldala
- Gwarancja bezterminowa Levenhuk – Oficjalna witryna internetowa Levenhuk w Polsce
- User Manual