WiFi Range Extender (QT333)

USER GUIDE
P/N QT903, Revision 2: 07.19.21

CUES equipment is designed to be easy to use during day to day operation. However, it is powered electrically and thus must be operated with care and safety. PLEASE READ THE INFORMATION ON SAFETY AND MAINTENANCE EVEN IF THE SYSTEM IS SET UP BY SOMEONE ELSE.

Care was taken in the design of this product and in the production of this document and related materials. However, CUES makes no warranty for the use of its products and assumes no responsibility for any errors or omissions in this document or for incidental or consequential damages resulting from the use of the products or the information contained in this document. Specifications may change without notice.

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We would be pleased to hear from you. If you see any errors or desirable extensions or improvements, please write us at the following address, C/O Operator's Manuals: CUES Corporate Office, 3600 Rio Vista Avenue, Orlando, Florida, 32805

More locations to serve you!

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Orlando, Florida 32805
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407-425-1569 FAX

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Estacada, OR 97023
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Fax: 909-923-2051

CUES toll free hot line for Customer Service
and ordering parts: 800-854-CUES
(800-854-2837)

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WiFi Range Extender
User Guide

This manual includes instructions for the CUES WiFi Range Extender.

Disclaimer:
This product contains a TP-Link product modified for use with CUES equipment. TP-Link is a registered Trademark of TP-Link Corporation Limited.

Basic Functions
- Power ON/OFF - Press the large button at the top of the Range Extender to turn the unit on/off. The switch will illuminate when powered on. The switch must be in off position for charging.
- Battery Gauge - Press the button on the bottom end (threaded end) of the Range Extender to check the battery state in the battery % window on the side of the unit.
- Charge Port - Only use the CUES supplied charger for the Range Extender. The charger will illuminate green when battery is charged and red when charging.
- Status Light - The status light illuminates the area beneath the top cap of the Range Extender. A solid light means the Range Extender is connected to a specified QZ3/SPiDER Network; a flashing light means the Range Extender is not connected.

POWER SWITCH

BATTERY GAUGE

CHARGING PORT

BATTERY GAUGE BUTTON

PAIRING THE RANGE EXTENDER TO A QZ3/SPIDER

Follow the instructions below to pair the Range Extender with a QZ3/SPiDER. The Range Extender can be reconfigured to use with another QZ3/SPiDER by repeating this procedure. Note that the Range Extender can only be configured to one device at a time. Once paired to a QZ3/SPiDER, the Range Extender will automatically reconnect whenever the QZ3/SPiDER is in range and powered on.

1. Press the button on top side of Range Extender to power on.
2. Using a wireless enabled tablet/PC/mobile device, connect to the Range Extender WiFi network using the SSID (network name) and pin labeled on the side of the unit.
3. Once connected to the Range Extender's network, open a web browser page on your device and navigate to: tplinkwifi.net

If you encounter any errors in reaching this site, you may use either of the following:
   • http://192.168.0.1
   • http://192.168.1.1
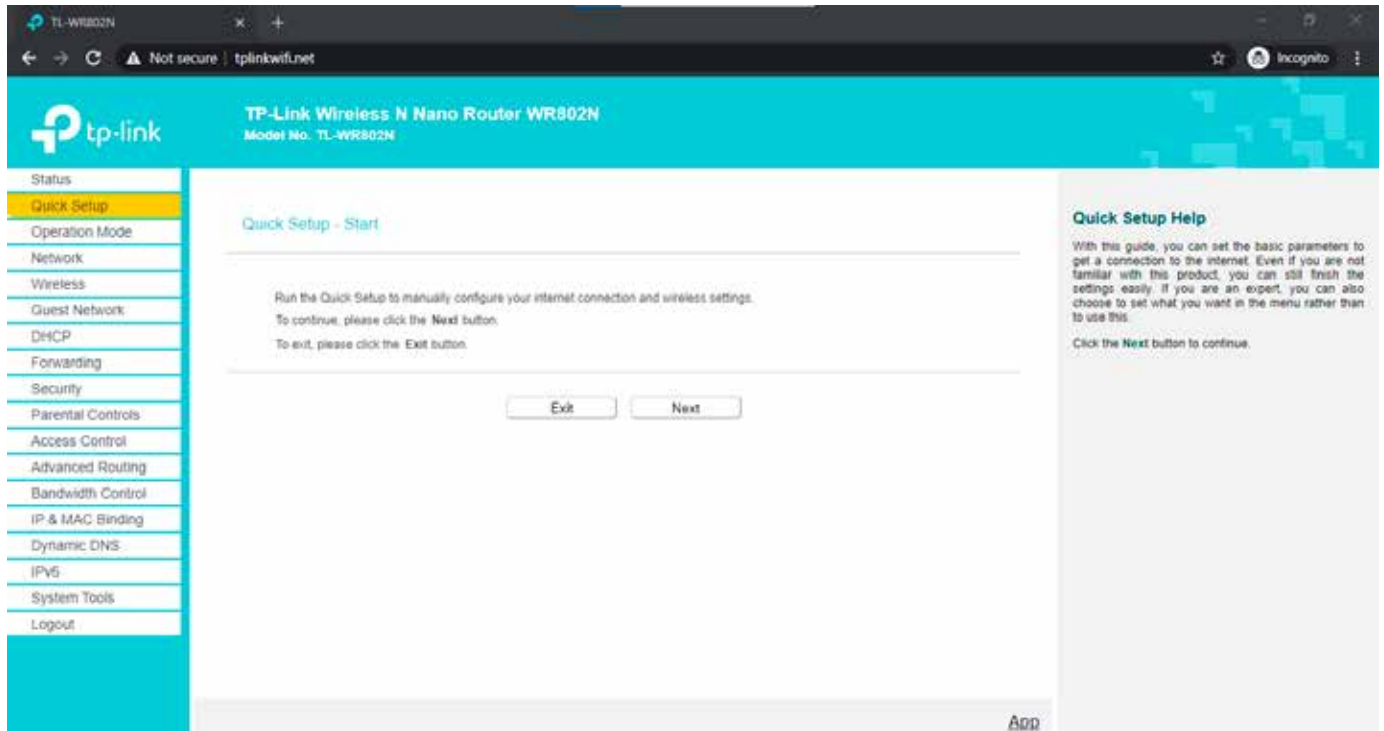
4. **For units with serial number 21071901 or greater:** At the following screen, for customer support purposes, CUES recommends setting **admin1** as the login password for the range extender.
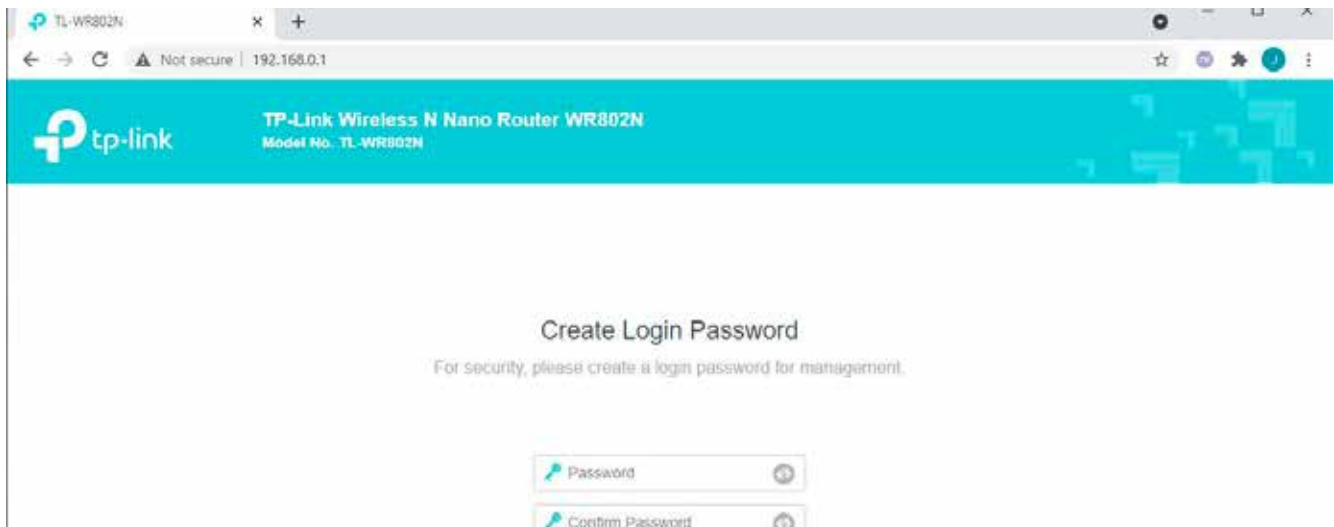

For units with serial numbers prior to 21071901: Use default username and password: **admin** (for both—case sensitive) to login to the Range Extender.
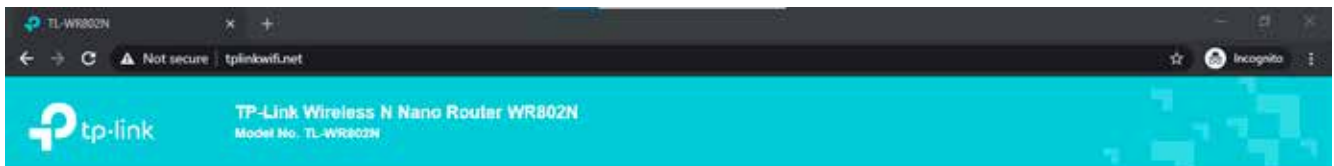
5. Press **NEXT** on the Quick Setup.

6. **For Serial Numbers Prior to 21071901 Only:** At the next screen, you may change your login user name and password; however **we do not recommend this as CUES will not be able to recover this information for you without a factory reset of the Range Extender.** Press **NEXT** to proceed.
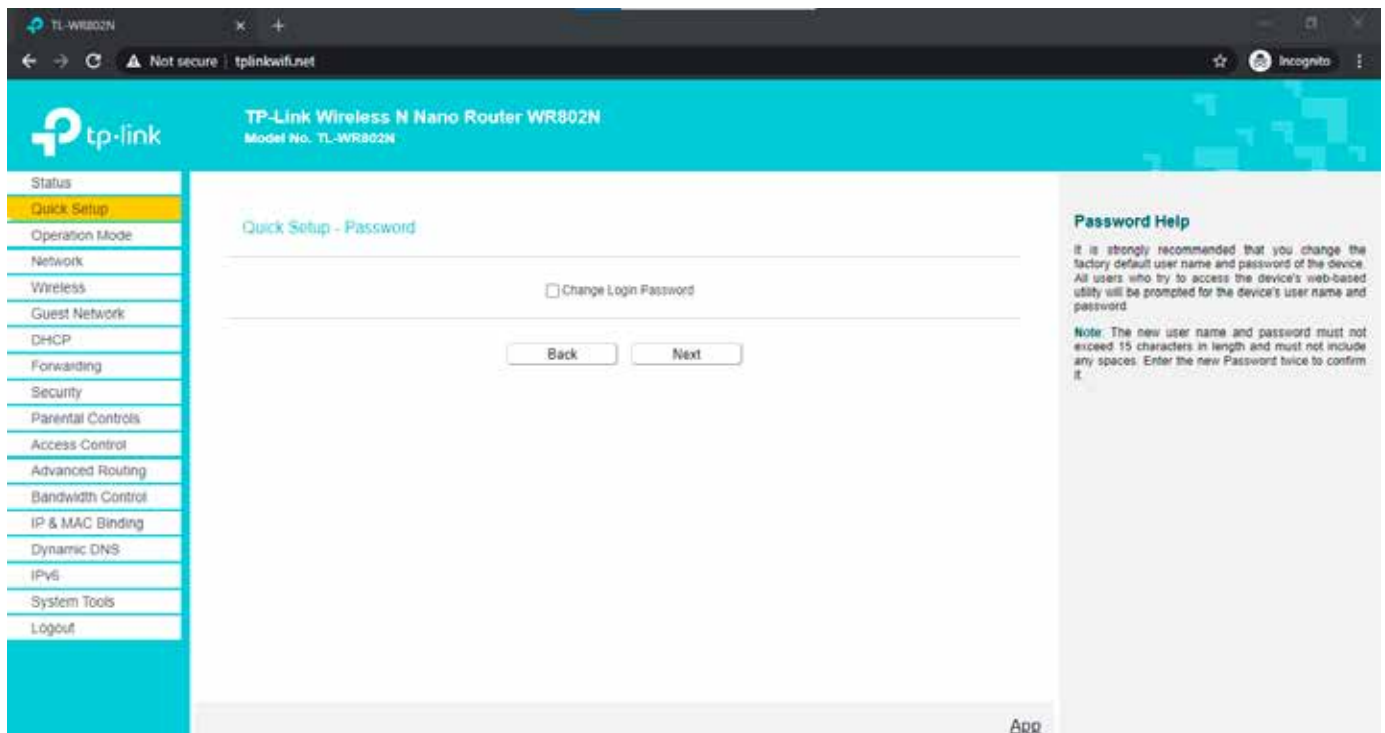
2 Operating Instructions

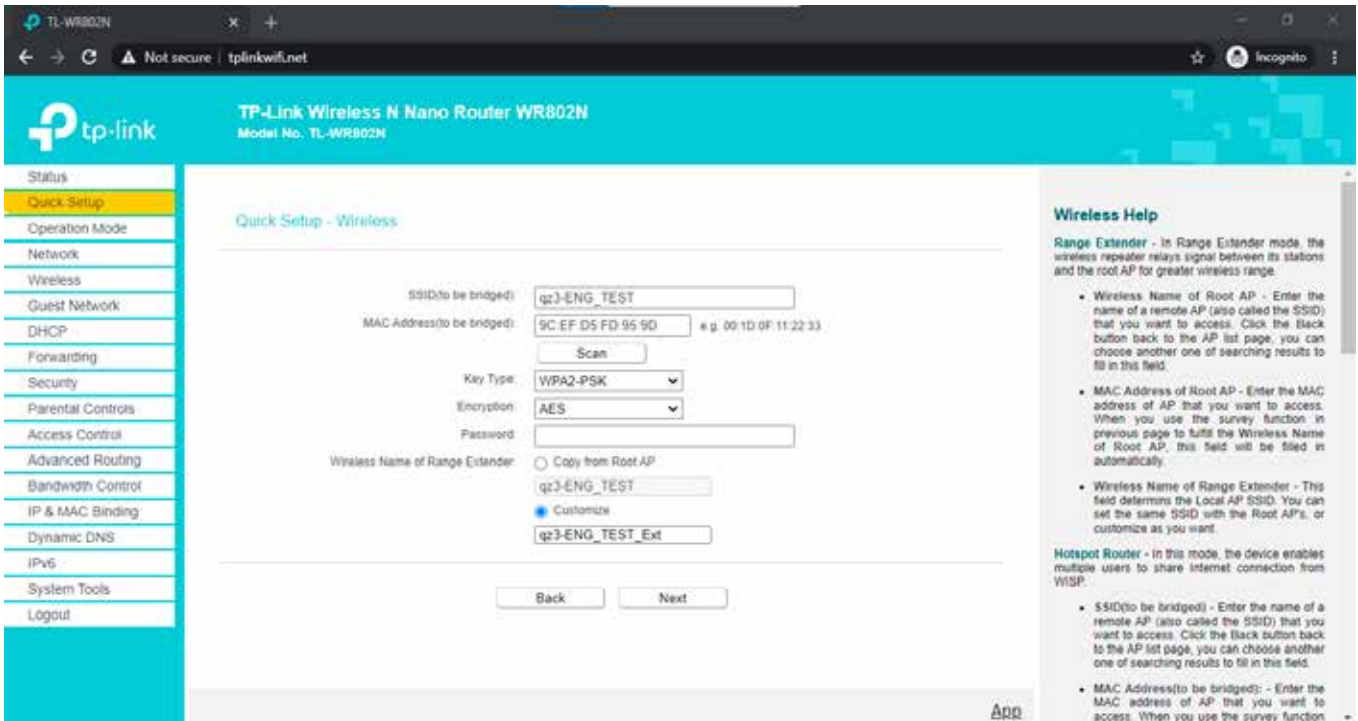## PAIRING THE RANGE EXTENDER TO A QZ3/SPIDER - CONTINUED

7. Select **Range Extender** at the following screen and press Next.
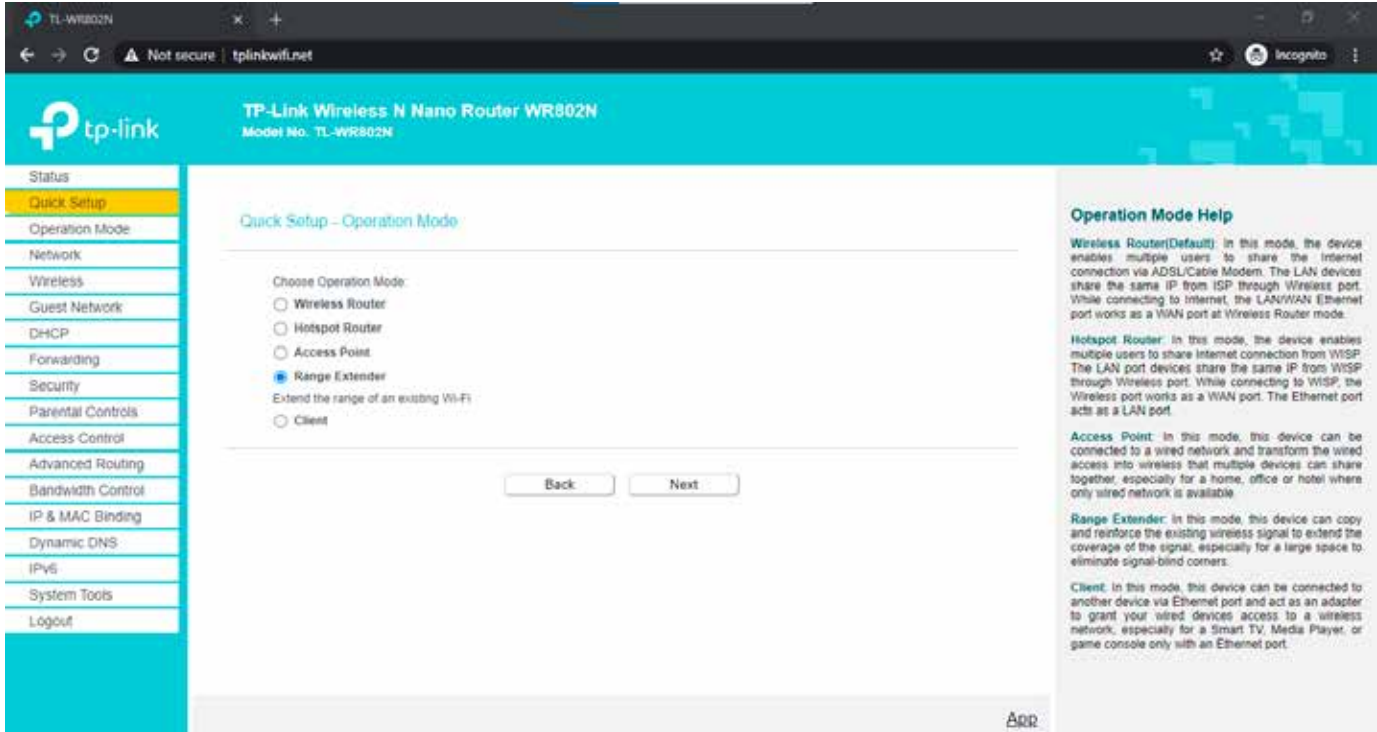
8. **Power on your QZ3 or SPiDER** within range of the repeater and wait for it to broadcast its net work (approximately 30 sec). Press **Refresh** on the screen as shown to reveal the QZ3/SPiDER network in the list and press the **connect** link to the right of the network name.
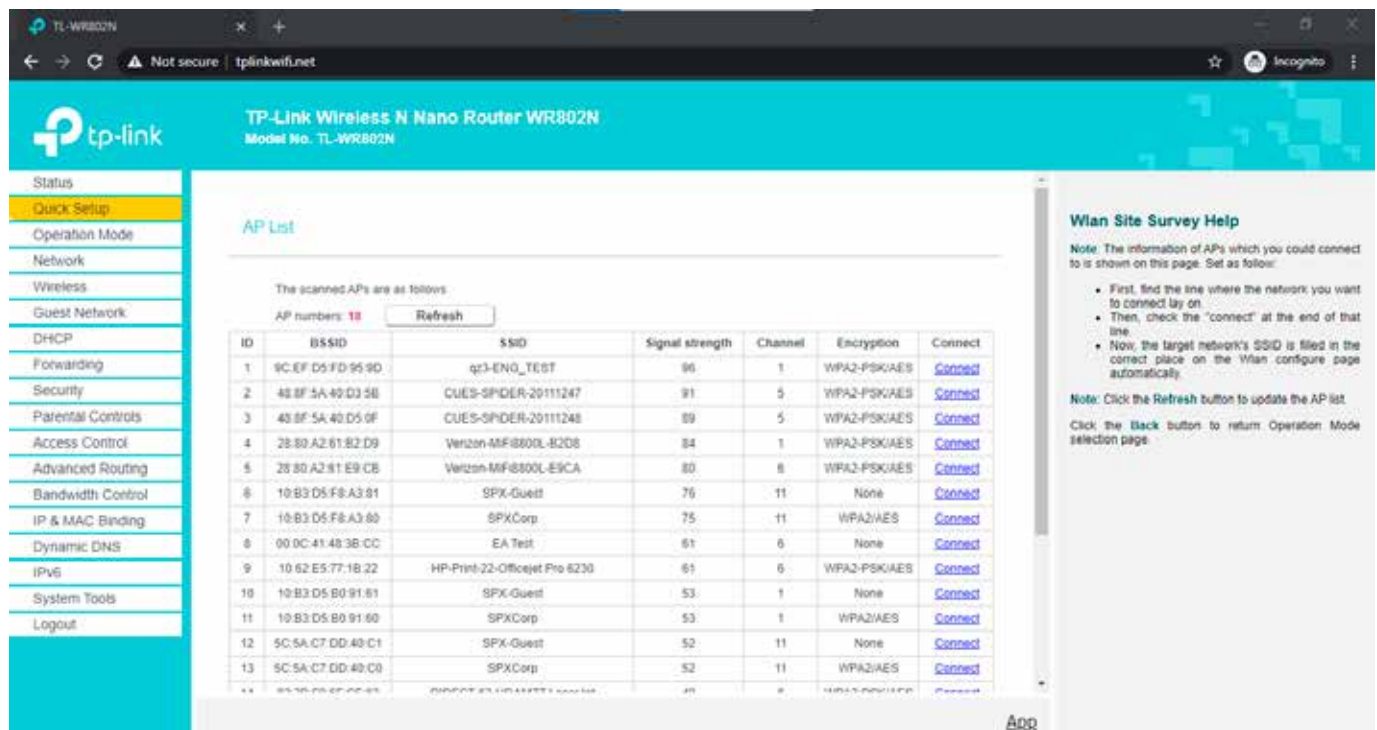
9. At the next screen, enter the password for the QZ3/SPiDER in the password field and select **customize** for the wireless name. **The default "customized" name is recommended**. Press **NEXT** to proceed.

10. Press **NEXT** to proceed with the default settings on the following page. **It is not recommended to alter these settings.**
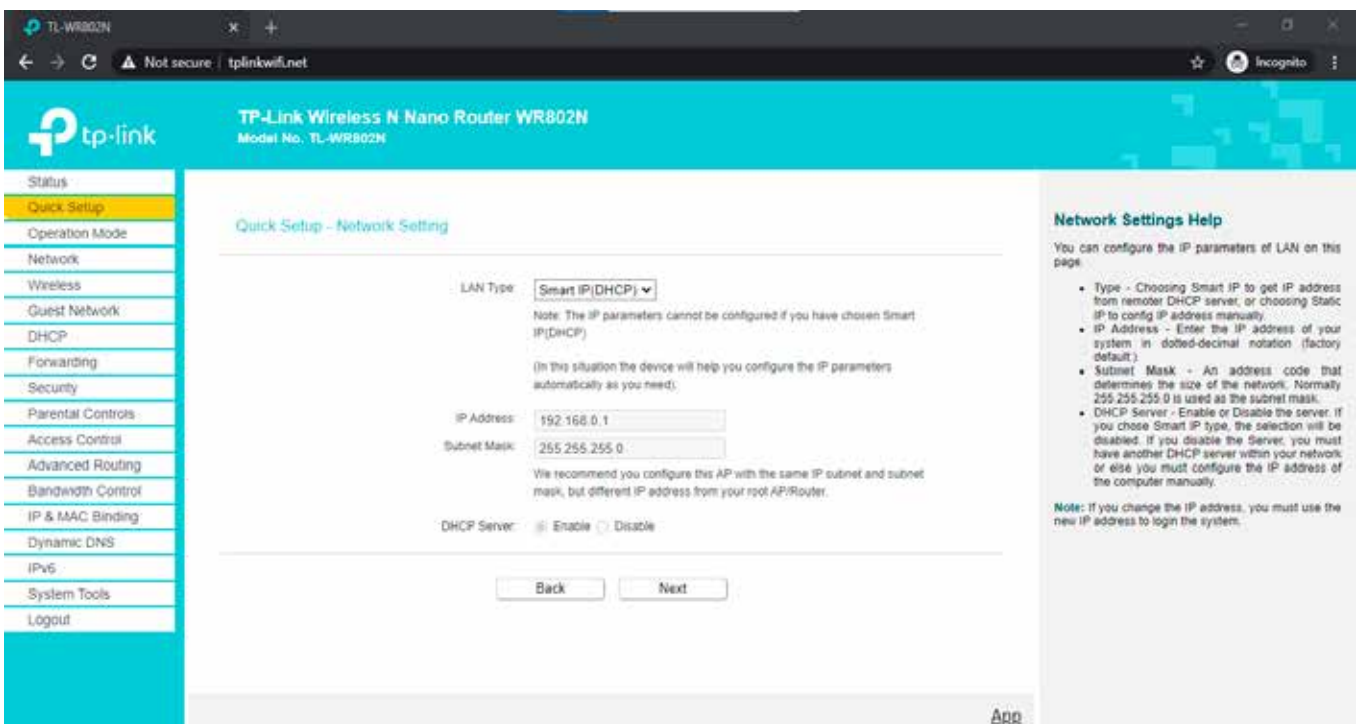
2 Operating Instructions

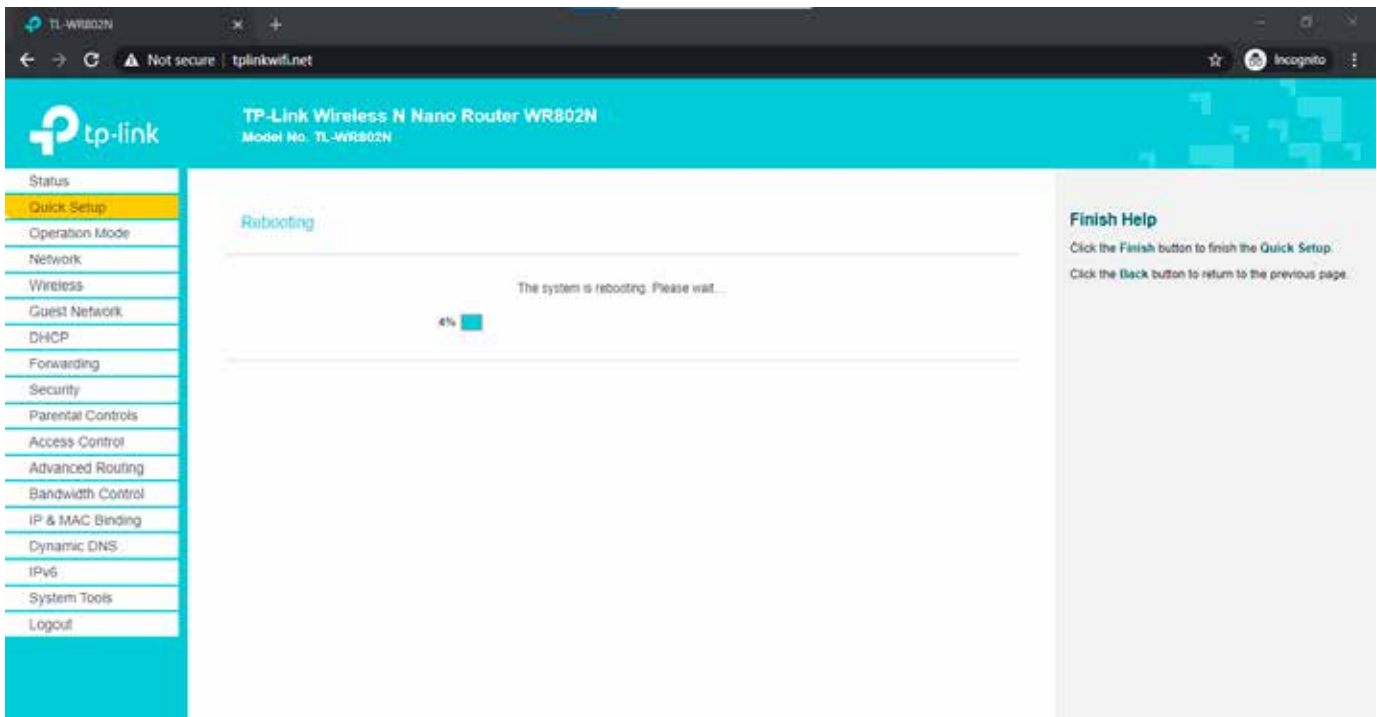## PAIRING THE RANGE EXTENDER TO A QZ3/SPIDER - CONTINUED

11. The next page will confirm completion of the Range Extender setup. Press the **FINISH** button at the bottom of the page to complete.
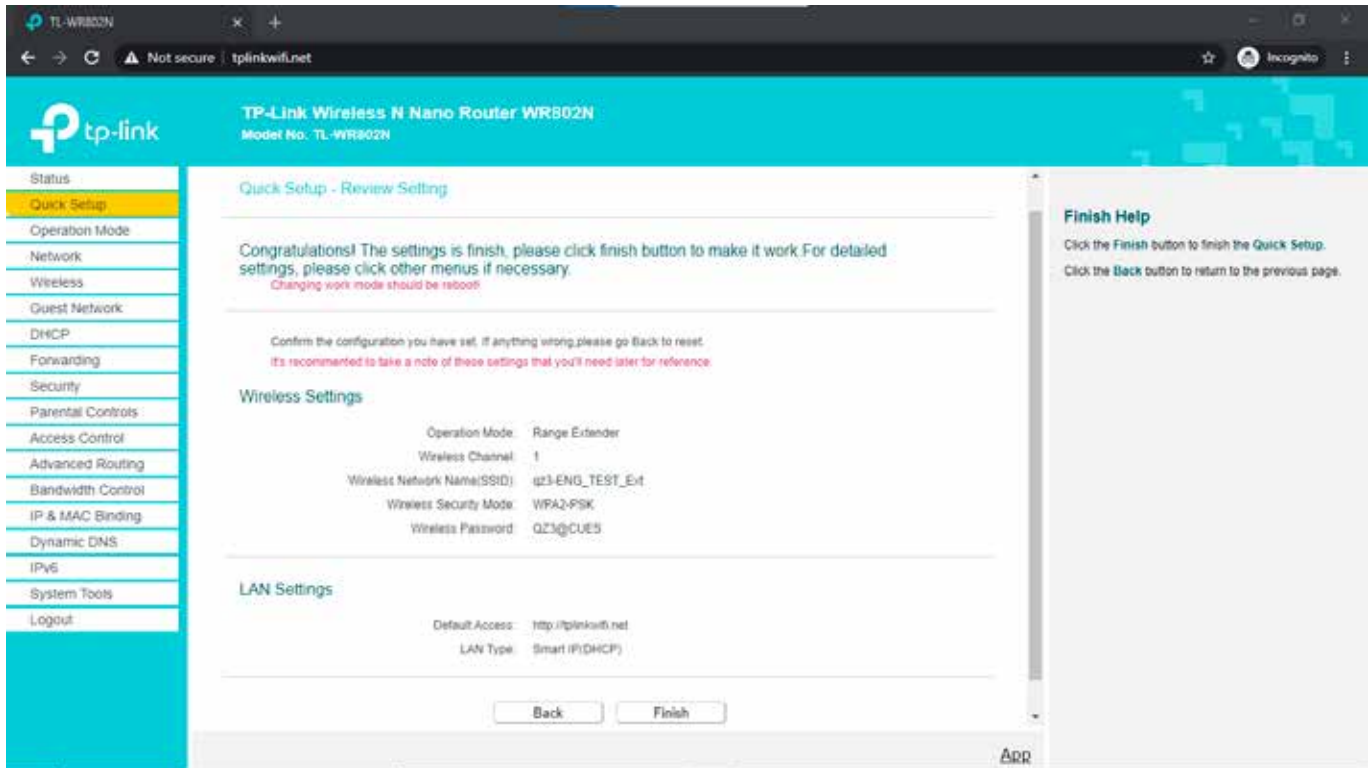
12. The Range Extender will then automatically reboot. **Do not power off during this process.**

13. Once the Range Extender has rebooted, you can connect to its new network name from step 9 with the same password as the QZ3/SPiDER. At this stage, you can navigate to the QZ3/SPiDER browser page and operate the device through the Range Extender.

RESETTING THE RANGE EXTENDER (NOTE: ONLY NECESSARY IF USER LOGIN/PASSWORD IS CHANGED OR LOST)

To reset the Range Extender to Factory Default settings, use a paper clip to press and hold the reset button located in the small hole on the bottom of the Range Extender for 10 sec. The blue status light will turn off. Release the reset button and the light will begin to flash after 10-20 sec. The Range Extender is now reset to factory settings and can be paired to a QZ3/SPiDER following the pairing instructions using the default SSID & PIN labeled on the unit.

This device is designed to be water resistant. However, the Range Extender is not meant to be submerged or hosed off. Clean with a damp cloth and mild detergent when necessary.

LITHIUM ION BATTERY SAFETY AND CHARGING INFORMATION

Battery/Charging Precautions and Recommendations
- Do not submerge the Range Extender.
- Do not allow the Range Extender charge port to short-circuit, even for a moment.
- Always protect Range Extender from shock, puncture, and impact, i.e., do not drop or transport in a tool box, trunk, back of van, etc. where they can "bang around".
- Do not use or attempt to charge a Range Extender showing any signs of damage.
- Never charge the Range Extender at temperatures below or above 0°C/40°C respectively.
- Do not operate the Range Extender at temperatures below or above -30°C/55°C respectively.
- Always charge the Range Extender on a non-flammable surface and away from all flammable material.
- Do not attempt to tamper with or disassemble the Range Extender.
- The Range Extender may become warm during use or charge.
- Remaining charge on battery is indicated by pressing the button on bottom.
- The Range Extender should be recharged as soon as possible after discharge unless it is not in the appropriate temperature range. Ideally, charging should occur at room temperature after allowing Range Extender to warm up or cool down to room temperature.
- Partial charges or discharges are acceptable without causing "memory effect", although constant operation under those conditions should be avoided.

CHARGING PROCEDURE (IMPORTANT! UNIT MUST BE POWERED OFF DURING CHARGING)

- Connect the charger to the battery pack using the connector on the bottom of the device.
- When the charger LED is red, the battery is charging.
- When the charger LED switches to green, the battery is fully charged.

CUES STANDARD 12 MONTH WARRANTY

CUES ("CUES") warrants that all parts, components, and equipment manufactured by CUES shall be free from defects in material and workmanship under normal use and service for which it was intended for a period of twelve (12) months from the date of shipment of materials by CUES to the purchaser. CUES' obligation under this warranty is limited, at CUES' option, to replacing or repairing, free of charge, any defective materials returned, freight prepaid, to the CUES designated service facility. For all warranty claims, the materials must be returned in accordance with CUES Material Return Policy.

Major items of equipment, such as vehicles, generators, etc., furnished, but not manufactured by CUES, will be covered only under the warranty of the third party manufacturer of such equipment. Expendable parts, such as light bulbs, fuses, connectors, etc., are excluded from this warranty.

Purchaser must notify CUES of a breach of warranty not later than the last day of the warranty period; otherwise, such claims shall be deemed waived.

CUES does not warrant the materials to meet the requirements of the safety codes of any federal, state, municipal or other governmental or administrative jurisdiction. Purchaser assumes all risk and liability whatsoever resulting from the use of its products, whether used singly or in combination with other products, machines or equipment.

This Warranty shall not apply to any materials, or parts thereof, which have; (a) been repaired or altered by anyone other than CUES without CUES' written consent; (b) been subject to misuse, abuse, negligence, accident, or damage; (c) not been installed or operated in accordance with CUES' printed instructions, or; (d) been operated under conditions exceeding or more severe than those set forth in the specifications of design tolerance of the equipment.

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CUES neither assumes nor authorizes any person (including employees, agents, or representatives of CUES) to assume for it any other liability, guarantee, or warranty in connection with the sale or use of the materials, and no oral agreements, warranties, or understandings exist collateral to or affecting this warranty.

This warranty shall not be extended, altered, modified, or waived except by a written instrument signed by CUES.

CUES MATERIAL RETURN POLICY

To ensure the orderly return of CUES products from our customers and to assure proper credit and warranty replacements handled in a timely manner, CUES has implemented a MATERIAL RETURN AUTHORIZATION (MRA) SYSTEM. Please read and follow the instructions below to ensure your MRA is handled properly and efficiently:

1. Once it is determined that a CUES product needs to be returned, call the CUES Parts Department in Orlando at 1-800-327-7791.
2. CUES will provide an MRA number by phone and ask a few questions.
3. CUES will then mail or fax the MATERIAL RETURN AUTHORIZATION (MRA) FORM with the MRA number, or include it with the replacement parts, if applicable.
4. Follow all instructions on the MRA Form. Make 2 copies - one for your records and the other will be used as a packing list.
5. Place an MRA sheet in with the parts that are shipped back to CUES along with a copy of the original packing slip or invoice, if possible. Send only the parts originally agreed upon with your Parts Representative. Any deviations/changes will require an additional MRA.
6. Make sure to include a copy of the MRA form for a packing slip.
7. Write the MRA number on the outside of the box.
8. Please take care in packing the parts that are to be shipped back to CUES. Parts must be individually protected from each other and appropriate packing material must be used to prevent damage during shipping.
9. Freight on the material returned is to be prepaid by the customer. Depending on the warranty determination, CUES, at its' option, may credit freight charges both ways.
10. The parts must be returned to CUES within 5 days of receipt of the MRA for credit to be granted.

Under normal circumstances, a warranty determination can be made within 30 days, and if under warranty, the part will be replaced at no charge. A credit will be issued if you have already received a replacement part. No credits will be issued until CUES receives the defective part.

*******NOTE*******

CUES will not warrant look-alike parts sold by competitors and reserves the right to charge a restocking fee. CUES shall not be liable for any loss or damage resulting, directly or indirectly, from the use of the materials, or for special, indirect, or consequential damages, economic losses, loss of profits, loss of business, or loss of business opportunity.

Without limiting the generality of the foregoing, this exclusion from liability embraces purchaser's expenses for downtime or for making up downtime, damages to property, and injury to or death of any persons.

CUES neither assumes nor authorizes any person (including employees, agents, or representatives of CUES) to assume for it any other liability, guarantee, or warranty in connection with the sale or use of the materials, and no oral agreements, warranties, or understandings exist collateral to or affecting this warranty. This warranty shall not be extended, altered, modified, or waived except by a written instrument signed by an authorized CUES representative.

CUES MATERIAL RETURN AUTHORIZATION

Cust #:	Name:			Contact:		Date: 4/21/2004

Original SO #: N/A	SO Orig:	Dated:	New SO #:	S.O. To Be Credited:

Return For:	Reason:	Territory	Prod. Ref. Cd: 51200		Orig:

Explanation:

Items Returned

1
2
3
4
5
6

To ensure your MRA is handled properly and efficiently, please follow the instructions below.

1. Ship parts back within five (5) business days of receiving your MRA number. Parts ordered in error are subject to a restocking fee.

2. Send only the parts originally agreed upon with your customer service representative. Any deviations will require an additional MRA.

3. Make a copy of this sheet and keep the original for your records. Use the copy as a packing slip.

4. Write the MRA number on the outside of the box.

5. Parts must be individually protected from each other (original packaging would be best) and appropriate packing material must be used to prevent against damage during shipping.

Note: If parts are not well protected and arrive at our facility damaged in any manner, we will automatically reject them and return them to you without credit.

PARTS WILL BE RETURNED TO CUSTOMER AT CUSTOMER EXPENSE WITHOUT AN MRA NUMBER DOCUMENTED ON BOX. CUES IS NOT RESPONSIBLE FOR SHIPMENT FROM CUSTOMER TO CUES.

Use this section as a Packing Slip.

Please remember to write the MRA number on the box.

MRA #:
XXXX

Return To:

Cues
3600 Rio Vista Avenue
Orlando, Fl. 32805
(407) 849-0190
FAX (407) 425-1569
WATS 800-327-7791

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At CUES, we realize your return on investment is directly related to daily production in the field. By stocking the largest inventory of OEM equipment in our industry, CUES strives to ship all parts orders on the same day or within 24 hours after receipt of the order.

Whether you need a camera or a fuse, CUES will quickly process and ship your order in accordance with your schedule requirements! Our experienced parts professionals can help you with parts identification, shipping methods, equipment operation questions, and connect you to the correct specialist for troubleshooting!

CUES offers four convenient stocking locations that contain a large assortment of parts, finished products, portable, and truck mounted systems. Texas, Arizona, Oklahoma and Louisiana customers can be serviced by our local dealerships. Contact us at your most convenient stocking location! For authorized dealer locations, log onto our website at
www.cuesinc.com.

Parts can be ordered via phone or facsimile! For operating hours, contact information, and locations, log onto our website at www.cuesinc.com. Contact us at your most convenient stocking location! Log onto our website at www.cuesinc.com to view the CUES Parts Department & Dealers hours & locations.

CUES Parts Department: Parts turnaround is normally within 24 hours after receipt of order. Please note that special shipping arrangements can be made at the time of the order. All return shipments received at CUES freight collect will be refused upon delivery unless previously authorized by CUES personnel. Normal operating hours are 8am to 5pm, EST., Phone: 800-327-7791, Fax: 800-831-1184.

CUES Service Depot: Service turnaround is normally 72 hours or less upon receipt at our depot, excluding weekends and holidays. All return shipments received at CUES freight collect will be refused upon delivery unless previously authorized by CUES personnel. Normal operating hours are 8am to 5pm, EST., Phone: 800-327-7791.

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For West Coast Customers:
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Phone: 800-544-8695

Canada

For Canadian Customers:
The parts and service depot is located at 1675 Sismet Road, Unit 2 & 3, Mississauga, Ontario L4W1P9
Phone: 905-238-9178

Midwest

CUES Midwest:
www.cuesmidwest.com
2325 Parklawn Drive, Suite K
Waukesha, WI 53186
Phone: 262-717-3165
Fax: 262-717-3167

CUES RECORD OF REVISIONS

This Record of Revision page is designed to allow the manual user to determine the engineering/ manufacturing level to which the manual is written. As engineering changes to this hardware are made at CUES, necessary information in the manual will be revised to reflect those changes. The latest change level and the rationale for any change(s) will be explained in tabular format on this page to allow the manual user to be better equipped should the need arise to call CUES regarding technical information.

Original Manual	Revision	Change Description
WiFi Range Extender	11.2020	Initial preliminary release
	12.2020	Various updates required throughout the guide.
	2-071921	Firmware changes.

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CUES is the world's leading manufacturer of closed circuit television video (CCTV) inspection, rehabilitation, pipe profiling equipment and asset inspection/decision support software. For over 50 years, CUES has provided innovative pipeline inspection technology and solutions to enable accurate condition assessment and proactive maintenance programs for buried infrastructure.

In addition to inspection equipment, CUES also designs, manufactures, and sells a broad range of pipeline rehabilitation and profiling equipment. These include chemical grouting systems for sewer line pipe joints capable of using a wide variety of grouting products. CUES also manufactures lateral reinstatement cutting systems which enable the reinstating of laterals in mainline sewers after they have been relined with any of a wide variety of liner materials. Pipe profiling is accomplished via Laser for Sonar based systems.

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