

Document Control

Title	NEON TRX TRACKING UNIT – NEON-TU8U User Manual
Number	-----
Version	1.2
Date	July 13, 2016

Document History

Date	Ver.	Description	Author(s)
19 May 2016	1.0	First Draft	Sarah Blaszk
23 May 2016	1.1	Second Draft	Sarah Blaszk
13 July 2016	1.2	Updated for UWB Model	Ben Funk

Document Issues

Ver.	Description	Resolution	Resolved Ver.

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NEON UWB TRACKING UNIT

Model: NEON-TU8U

User Manual

NEON™ Indoor Location System

Version 1.2



NEON uses HERE Maps.

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User Manual

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Map Imagery is provided by HERE Maps.

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1 Important Information

1.1 Software License and Warranty Information

Please refer to the Appendices of this document to find information about the TRX Software License and Warranty Agreement and the TRX Limited Hardware Warranty. The terms of the TRX Software License and Warranty must be read prior to using the TRX Tracking Unit. By using the TRX Tracking Unit you are acknowledging acceptance of the terms described therein.

1.2 Technical Support

TRX Systems provides technical support for the NEON Products and components including

- NEON™ Tracking Units,
- NEON™ Command Software,
- NEON™ Mapper Android App,
- NEON™ Signal Mapper Android App,
- NEON™ Personnel Tracker Android App,
- NEON™ API
- NEON™ Multi-Sensor Anchors , and the
- NEON™ Check-in Locations.

For technical support, please visit our online help desk at <https://support.trxsystems.com/> or contact TRX Systems by email at support@trxsystems.com. In the event of detection of any system security vulnerabilities (including suspected illicit code, malware, or other vulnerabilities) customers should contact TRX Systems support immediately.

2 Introduction

This User Manual provides information about how to configure, use, and maintain the NEON™ Tracking Unit NEON-TU8U with the NEON™ Indoor Location System. Please read the FCC information located in **Appendix A.** prior to operating this device.

2.1 Product Overview

The TRX Systems Tracking Unit INU8-BT is a dual use unit that is used with the NEON™ Indoor Location System, which locates persons indoors, outdoors, and where GPS is unreliable or unavailable. The TRX Tracking Unit can be used as either a Tracking Unit or a BLE/UWB beacon.

2.2 Product Diagram

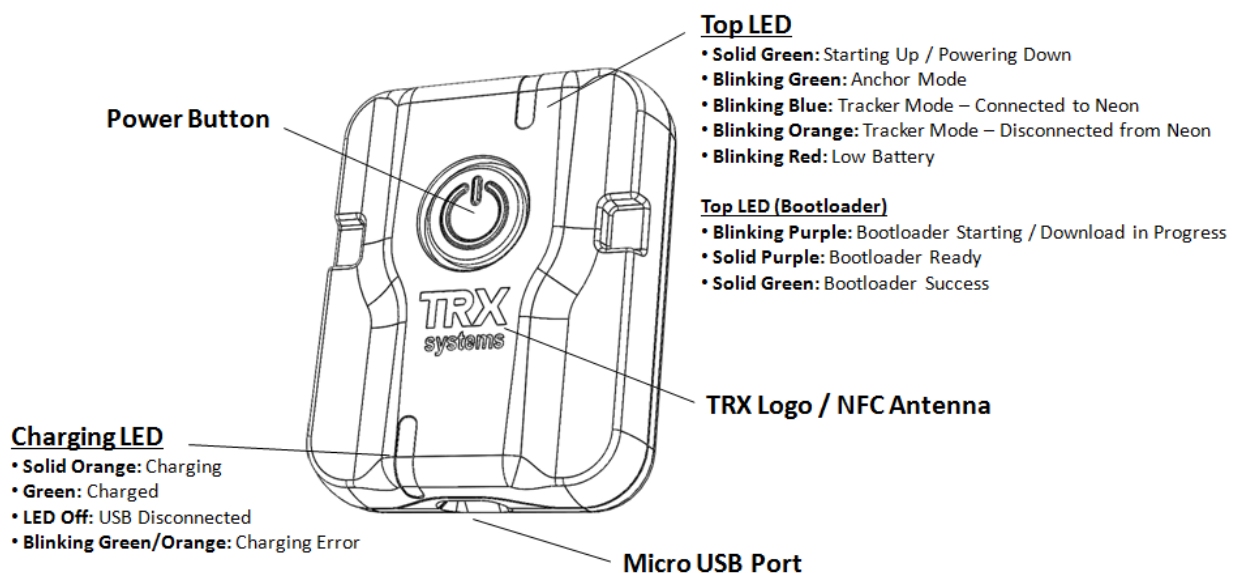


Figure 1. TRX Tracking Unit (Front) - INU8-BT

Back

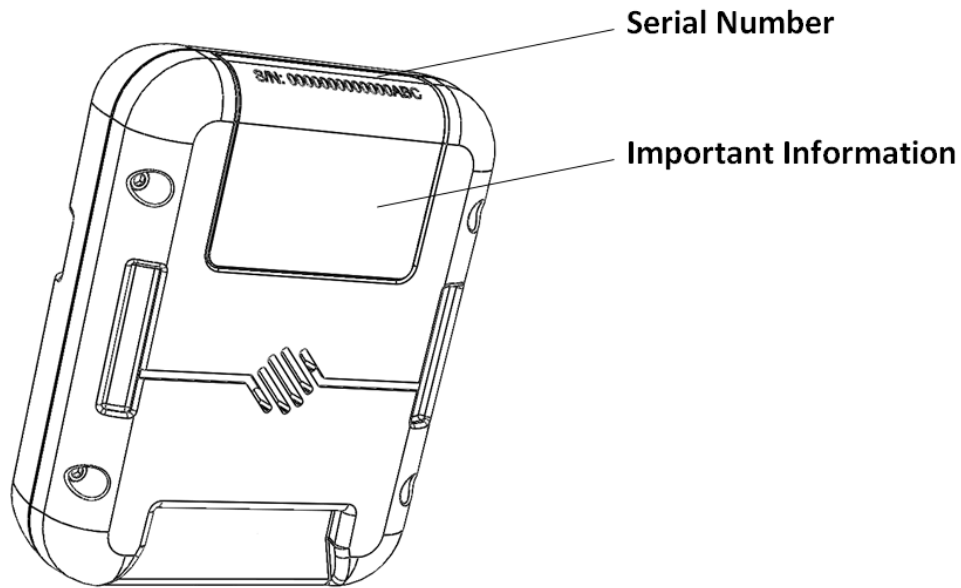


Figure 2. TRX Tracking Unit (Back) - INU8-BT

2.3 Technical Specifications

NEON® Tracking Accessories

Dimensions (H x W x D)	60x50 x15mm (2.4 x 2.0 x 0.6in)
Operating Temperature	-20 to 60 °C (-4 to 140 °F)
Battery	Lithium Polymer, 8+ hours
Frequency	2.4GHz

Performance

Accuracy Metric	R95
Horizontal Error	<5 m
Vertical Error	+/-1 m

Figure 3. TRX Tracking Unit Technical Specifications

2.4 Limitations on System Use

The TRX Tracking Unit is not a life saving device. The accuracy of the system depends on the user activities, the map information provided, the number and location of deployed anchor nodes, and the

availability of consistent data communications. Each user must decide, independent of the TRX Tracking Unit, what actions to take or not to take in a given incident based on the factors deemed relevant to that incident. Data from the TRX Tracking Unit may be incorrect due to environmental, physical, maintenance, or other factors. Therefore, decisions made during an incident may not be based on the TRX Tracking Unit alone; users should depend upon other available information when making their best decision. Additionally, such other data may be inaccurate, corrupted, misleading or erroneous due to erroneous assumptions, inaccurate information, or poor choices made by Licensee and others.

The current version of the TRX Tracking Unit is not qualified for use in environments requiring intrinsically safe operation, or for use within extreme environments. Licensee's use of the TRX Tracking Unit under certain conditions, such as fires, explosions, police/military operations, weather systems, mining operations and many other conditions where Licensee or User may be impaired, disoriented, imperiled, injured, etc., can lead to User's injury, further injury or death or to the injury, further injury or death of third parties. All decisions based upon the use of the TRX System are subject to User's verification of the data, content and assessment of dangerous conditions and dangerous environments. All decisions or actions made by User are subject to User's professional judgment and are the sole responsibility of User and not the Company or the TRX Systems.

3 Tracking Unit Mode

In Tracking Unit Mode, the sensor hub software running on the NEON-TU8U produces a relative inertial path, user posture, and inferred map information. The sensor hub computes this information from an array of sensors including barometric pressure, accelerometers, gyroscopes, magnetometers, and BLE/UWB ranging.

The TRX Tracking Unit automatically switches to Tracking Unit mode as soon as it connects via Bluetooth to an Android running the NEON Location Service. Once connected to the NEON Location Service, the Tracking Unit sends relative inertial path data to the navigation algorithms running on the Android. The navigation algorithms then output the user's location to the user interface display.

The TRX Tracking Unit automatically detects the user's posture when used with NEON Personnel Tracker. Supported user postures include upright, upside down, on back, prone, on left side, and on right side.

The TRX Tracking Unit automatically detects building features as you walk around with the Neon Mapper App. The Tracking Unit detects stairs, elevators, floors, and entrances to buildings. This data is sent to the Neon Mapper App via a Bluetooth connection. The data is then sent to cloud storage over Wi-Fi or cellular networks.

3.1 Wearing the Tracking Unit

Correct placement of the TRX Tracking Unit on the body is important for correct operation. To produce accurate tracking results, secure the tracking unit to the core using the belt clip.

To secure, attach the belt clip to the Tracking Unit, and then connect the belt clip to your belt.

Turn the tracking unit on by pressing the power button on the front of the unit as shown in Figure 1. The top LED light on the unit will turn on.

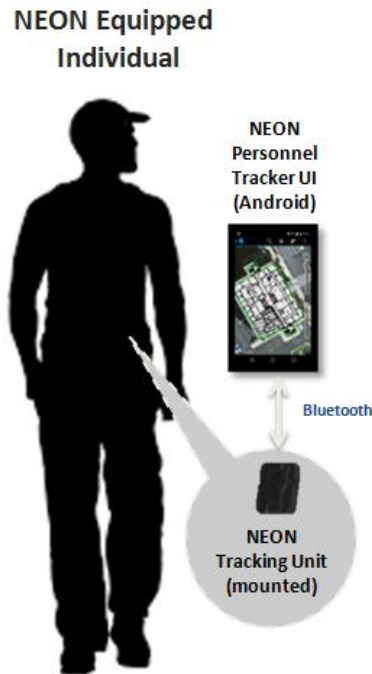


Figure 4. NEON Equipped Individual

3.2 Connecting the Tracking Unit to an Android Device

The Tracking Unit connects to an Android device over Bluetooth. There are two ways to pair the Tracking Unit: by aligning the NFC antenna on the Tracking Unit to the NFC antenna on the phone, and by using the Bluetooth menu on the Android device.

The NFC antenna is located under the TRX Logo on the Tracking Unit. You may need to check with your phone manufacturer to determine the exact location of the NFC antenna. Typically it is located on the back of the Android device. If the NEON Location Service is not already installed on your Android device, then aligning NFC antennas will open a web browser and direct you to log in and download NEON apps. Once you have downloaded the necessary apps, turn on The Tracking Unit and align the NFC antennas again to pair the Tracker to the Android device. Follow the on screen instructions to complete the pairing process. Once a Tracking Unit is paired to the Android device, it will stay paired unless you explicitly remove the device from the Bluetooth settings. The Tracking Unit automatically connects to the Android device when NEON Location Service is running.

If your Android device does not support NFC, then you may pair the Tracking Unit through the Bluetooth settings screen. Ensure the Tracking Unit is turned on during the pairing process. The Tracking Unit will show up in the Bluetooth available devices list a "TRX_XXXX" where XXXX is the serial number.

4 Anchor Mode

In anchor mode, the sensor hub software running on the NEON-TU8U performs ranging measurements using BLE and UWB. The ranging message is received by a TRX Tracking Unit and processed as a location constraint by the NEON Location Service. Pressure information is also sent in the ranging message. This data is used to calculate a pressure offset between the anchor and tracked users. The pressure offset mitigates elevation error when there is environmental pressure noise.

The TRX Tracking Unit is automatically in the anchor mode when it powers on.

4.1 Anchor Placement

For best results, the anchor should be placed and only then turned on. UWB enable anchors only intended to be placed inside of buildings. See [Appendix A](#) for regulatory restrictions.

Please review the beacon guidelines on our online help desk: <https://support.trxsystems.com/hc/en-us/articles/218603177-BLE-Beacon-Placement-Guidelines>.

5 Appendix A. Regulatory Requirements

The following FCC information applies to the following components of the NEON™ Indoor Location System:

- NEON™ Tracking Unit, and
- NEON™ Multi-sensor Anchor.

Special requirements when operating in “anchor” mode

When operating the device as an anchor, this equipment may only be operated indoors. Operation outdoors is in violation of 47 U.S.C 301 and could submit the operator to serious legal penalties.

FCC Compliance

The FCC ID for this device is BXOTU8U. This device complies with 47CFR Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Notice to Users

Caution: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television

reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV Technician for help.

TRX has not approved any changes or modifications to this device by the user. Any changes or modifications not expressly approved by TRX Systems may void the user's authority to operate this equipment.

RF Exposure Notice

This device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves adopted by the FCC. These limits include a substantial safety margin design to assure the safety of all persons, regardless of age and health. The radio wave exposure guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. SAR levels have been computed for the transmitters in this device and have been found to be below FCC limits.

6 Appendix B. End User Agreement

Please read the following terms and conditions carefully. This End User Agreement is between TRX Systems, Inc. (the “Company” or the “Licensor”) and You, which if an entity aside from an individual user includes its employees, staff and personnel (collectively, the “Users”, “You” or “Licensee”), for the use of the hardware, software and services to be provided hereunder, including any content and any related materials, the License Software and associated services, documentation, updates or modifications that may be provided to You by the Company or its licensees or agents (collectively, the “TRX Products”). Your access to and use of the TRX Products requires your compliance with the terms of this Agreement. By downloading or installing the software, or accessing and/or using any portion of the TRX Products, you agree to be bound by this Agreement.

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1. Forms of Acceptance of Agreement. Licensee shall indicate their intention to be bound to the terms and conditions of this Agreement through one (1) of the four (4) modes of acknowledgement set forth below:

(a) Acceptance by Signature. By signature of a duly authorized officer of Licensee in the appropriate signature block below (or the signature block of a purchase order or other agreement to which this is referred to or included in whole or in part), Licensee consents to become a party to this Agreement and to be bound by its terms and conditions. This Agreement may be executed in counterparts, each of which will be deemed an original, but all of such counterparts together will constitute one and the same agreement,

(b) Acceptance by Clicking “I Accept” or by use of TRX Products. **BY CLICKING ON THE “I ACCEPT” BUTTON OR OTHERWISE USING ANY PART OF THE TRX PRODUCTS, USER CONSENTS TO BECOME A PARTY TO THIS AGREEMENT AND TO BE BOUND BY ITS TERMS AND CONDITIONS. USER’S WRITTEN APPROVAL IS NOT A PREREQUISITE TO THE VALIDITY OR ENFORCEABILITY OF THIS AGREEMENT. IF USER DOES NOT WANT TO BECOME A PARTY TO THIS AGREEMENT OR DOES NOT AGREE WITH OR CANNOT COMPLY WITH ALL OF ITS TERMS, DO NOT CLICK ON THE “I ACCEPT” BUTTON OR USE ANY PART OF THE TRX PRODUCTS, AND USER WILL NOT BE LICENSED TO THE TRX PRODUCTS OR BE AUTHORIZED TO USE ANY PART OF THE TRX PRODUCTS.**

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related manuals, is restricted in accordance with Federal Acquisition Regulation 12.212 for civilian agencies and Defense Federal Acquisition Regulation Supplement 227.7202 for military agencies, or any successor regulations. This Licensed Software is commercial computer software and the related documentation is commercial computer software documentation. The use of the Licensed Software and related documentation is further restricted in accordance with the terms of this Agreement, or any modification hereto. Company is located at 7500 Greenway Center Drive, Suite 420, Greenbelt, Maryland 20770.

14. General.

This Agreement represents the complete agreement concerning this license between the Parties and supersedes all prior agreements and representations between them. This Agreement may be amended only by a writing executed by both parties. If any provision of this Agreement is held to be illegal or unenforceable, that provision shall be limited or eliminated to the minimum extent necessary to make it legal and enforceable and this Agreement shall otherwise remain in full force and effect and enforceable. The failure of Company to act with respect to a breach of this Agreement by Licensee, Users or others does not constitute a waiver and shall not limit Company's rights with respect to such breach or any subsequent breaches. This Agreement is personal to Licensee and may not be assigned or transferred for any reason whatsoever without Company's prior written consent and any action or conduct in violation of the foregoing shall be void and without effect. Company expressly reserves the right to assign this Agreement and to delegate any of its obligations hereunder. This Agreement shall be governed by and construed under Maryland law (without regard to its conflicts of laws provisions) as such law applies to agreements between residents of any state in which this Agreement is entered into and performed. The sole and exclusive jurisdiction and venue for actions arising under this Agreement shall be the State and Federal courts in Prince George's County, Maryland and Licensee hereby agree to service of process in accordance with the rules of such courts.

EACH PARTY RECOGNIZES AND AGREES THAT THE WARRANTY DISCLAIMERS AND LIABILITY AND REMEDY LIMITATIONS IN THIS AGREEMENT ARE MATERIAL BARGAINED FOR BASES OF THIS AGREEMENT AND THAT THEY HAVE BEEN TAKEN INTO ACCOUNT AND REFLECTED IN DETERMINING THE CONSIDERATION TO BE GIVEN BY EACH PARTY UNDER THIS AGREEMENT AND IN THE DECISION BY EACH PARTY TO ENTER INTO THIS AGREEMENT.

If you have any questions about the Terms, please contact TRX at support@trxsystems.com.

Last updated as of April 11, 2016