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Treedix TRX9-0105-EU

Treedix USB Cable Tester (Model TRX9-0105-EU) Instruction Manual

Model: TRX9-0105-EU

1. Introduction

The Treedix USB Cable Tester is designed to efficiently identify the characteristics and integrity of various USB cables. This device helps distinguish between good, faulty, charge-only, data-less, and high-speed cables by observing LED indicators. It supports a wide range of modern USB connectors, including USB-C, USB-A, USB-B, Micro, Mini, and Lightning types.

This manual provides essential information for the proper setup, operation, and maintenance of your Treedix USB Cable Tester.

2. Product Overview

The Treedix USB Cable Tester features multiple ports and LED indicators to provide comprehensive cable testing. The board is equipped with various USB connector types to accommodate diverse cables.

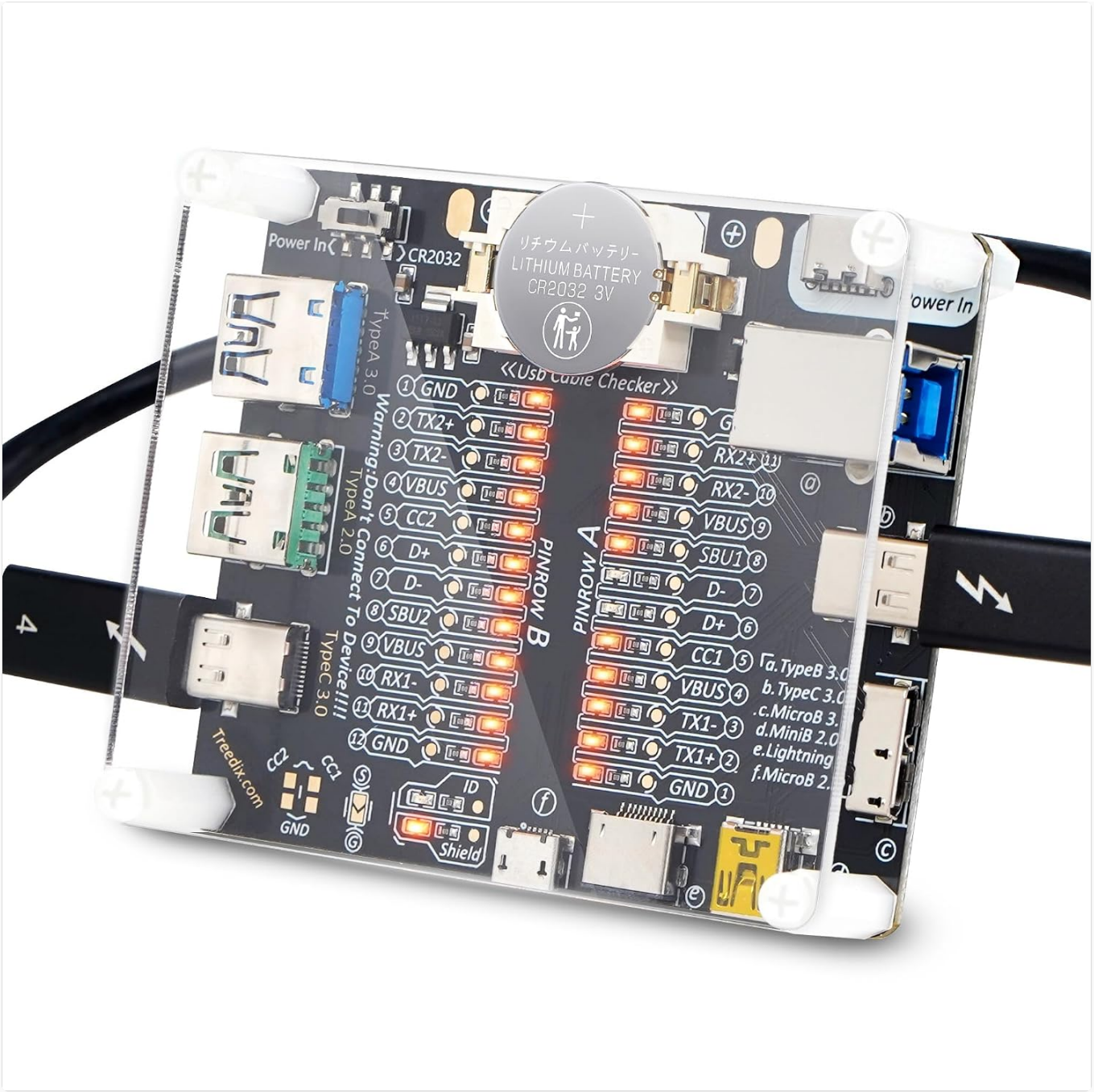


Figure 2.1: Treedix USB Cable Tester with various labeled ports including Type-A 3.0, Type-A 2.0, Type-C 3.0, Type-B 3.0, Type-C 2.0, Micro-B 2.0, Mini-B 2.0, Lightning, and Micro-B 3.0.

2.1 Supported Interfaces

- USB-C (Type C 3.0, Type C 2.0)
- USB-A (Type A 3.0, Type A 2.0)
- USB-B (Type B 3.0, Type B 2.0)
- Micro USB (Micro-B 2.0, Micro-B 3.0)
- Mini USB (Mini-B 2.0)
- Lightning

2.2 Pinout Definitions

The tester utilizes a series of LEDs to indicate the continuity and configuration of each pin within the connected cable. Understanding these pinout definitions is crucial for accurate cable assessment.

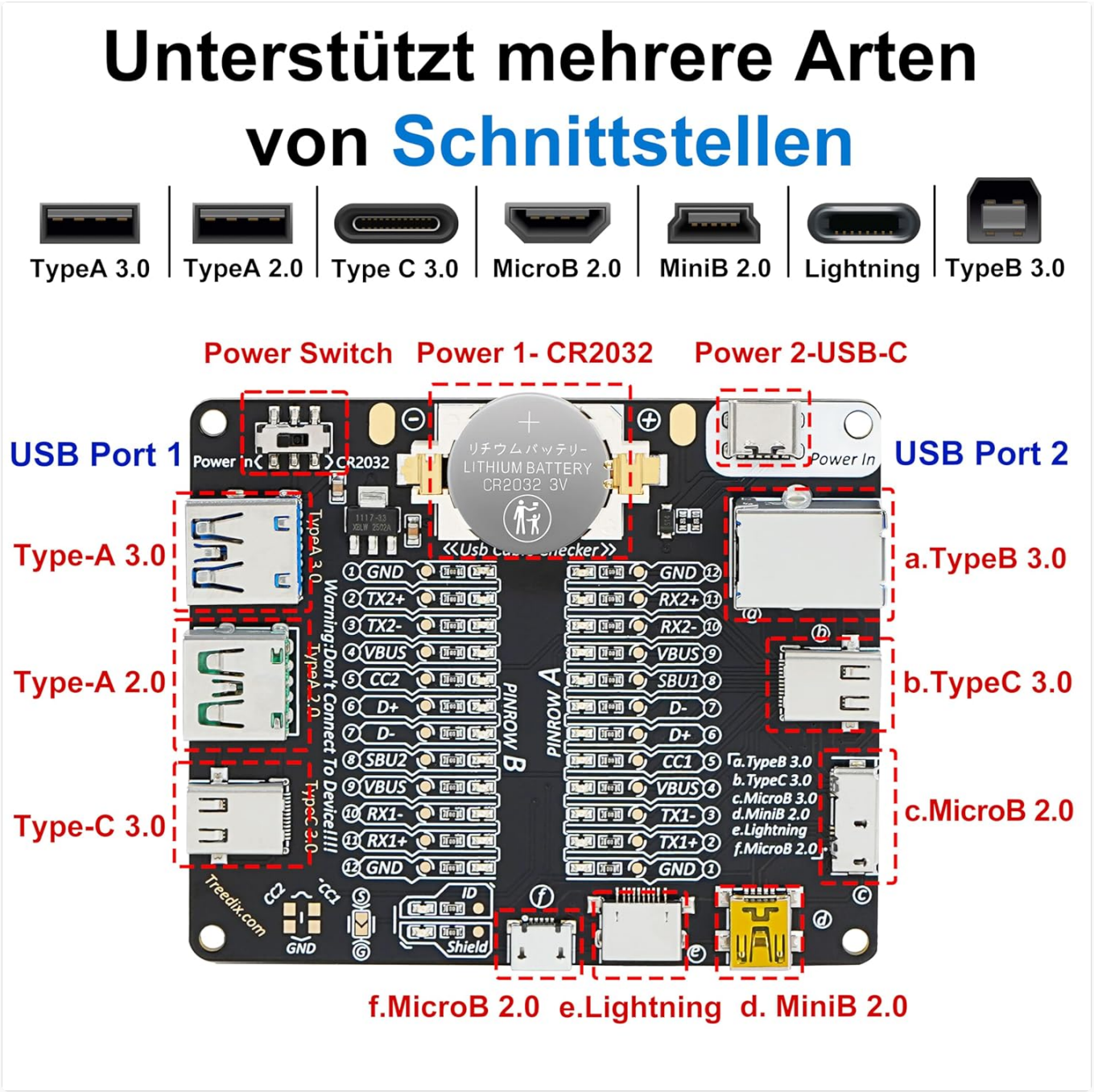


Figure 2.2: Detailed pinout definitions for both Pinrow A and Pinrow B, indicating Ground, SuperSpeed differential pairs, VBUS, Configuration channels, and USB Data lines.

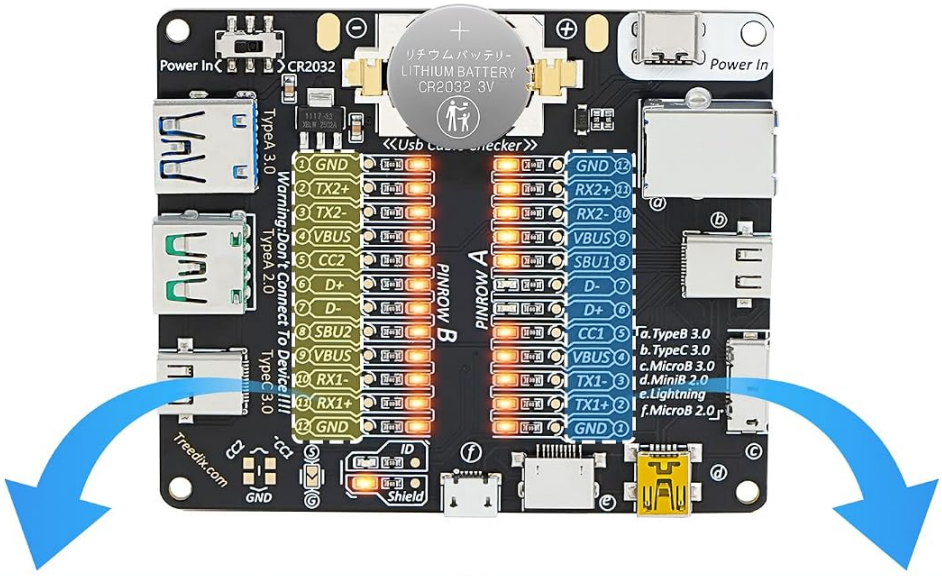
3. Setup

3.1 Powering the Device

The Treedix USB Cable Tester can be powered by two methods:

1. **CR2032 Lithium Cell:** A CR2032 lithium coin cell is included. To activate, rotate the battery holder switch to the right.
2. **External Vin (3-12V):** Connect a 3-12V power source via the Vin port. To use external power, rotate the battery holder switch to the left to disconnect the internal battery.

Die Definitionen von 24 Pinouts



PinrowB	Name	Description
B1	GND	Ground
B2	TX2+	SuperSpeed differential pair 3 TX
B3	TX2-	SuperSpeed differential pair 3 TX
B4	VBUS	Bus power
B5	CC2	Configuration channel
B6	D+	USB Data Positive Electrode
B7	D-	USB Data Minus
B8	SBU2	Side Band Use (SBU)
B9	VBUS	Bus power
B10	RX1-	Super Speed differential pair 2 RX
B11	RX1+	Super Speed differential pair 2 RX
B12	GND	Ground

PinrowA	Name	Description
A12	GND	Ground
A11	RX2+	Super Speed differential pair 4 RX
A10	RX2-	Super Speed differential pair 4 RX
A9	VBUS	Bus power
A8	SBU1	Side Band Use (SBU)
A7	D-	USB Data Minus
A6	D+	USB Data Positive Electrode
A5	CC1	Configuration channel
A4	VBUS	Bus power
A3	TX1-	SuperSpeed differential pair 1 TX
A2	TX1+	SuperSpeed differential pair 1 TX
A1	GND	Ground

Figure 3.1: Powering options: 1. CR2032 battery activation (rotate right). 2. USB-C external power connection (rotate left).

3.2 Acrylic Stand Installation

The tester comes with an acrylic stand for stability and protection. Follow these steps for assembly:

1. Identify the acrylic plates and screws.
2. **Important:** Peel off the protective film from both sides of the brown acrylic plates to reveal the transparent surface.
3. Align the tester board with the bottom acrylic plate.
4. Secure the top acrylic plate using the provided screws and standoffs.



Figure 3.2: Installation diagram showing the steps to assemble the acrylic stand for the tester.

4. Operating Instructions

To test a cable, simply connect one end to an input port (e.g., Type-A 3.0, Type-A 2.0, Type-C 3.0) and the other end to a corresponding output port (e.g., Type-B 3.0, Type-C 2.0, Micro-B 2.0, Mini-B 2.0, Lightning). Observe the LED indicators to determine the cable's functionality.

4.1 Interpreting LED Indicators

The LEDs on the board correspond to specific pins within the USB cable. When a pin has continuity, its corresponding LED will illuminate. By observing the pattern of lit LEDs, you can determine the cable type and its capabilities:

- **Charge-only cables:** Typically show VBUS and GND continuity.
- **Data cables (USB 2.0):** Show VBUS, GND, D+, and D- continuity.
- **High-speed data cables (USB 3.0/3.1/3.2):** Show VBUS, GND, D+, D-, and additional SuperSpeed differential pairs (TX+, TX-, RX+, RX-) continuity.
- **USB-C specific features:** CC1, CC2, SBU1, SBU2 for configuration and alternate modes.

Refer to Figure 2.2 (Pinout Definitions) for a detailed understanding of each LED's function.

4.2 Examples of Cable Test Results



Figure 4.1: LED patterns for a Type A to Type B 2.0 cable (left) and a Type A to Mini 2.0 cable (right).

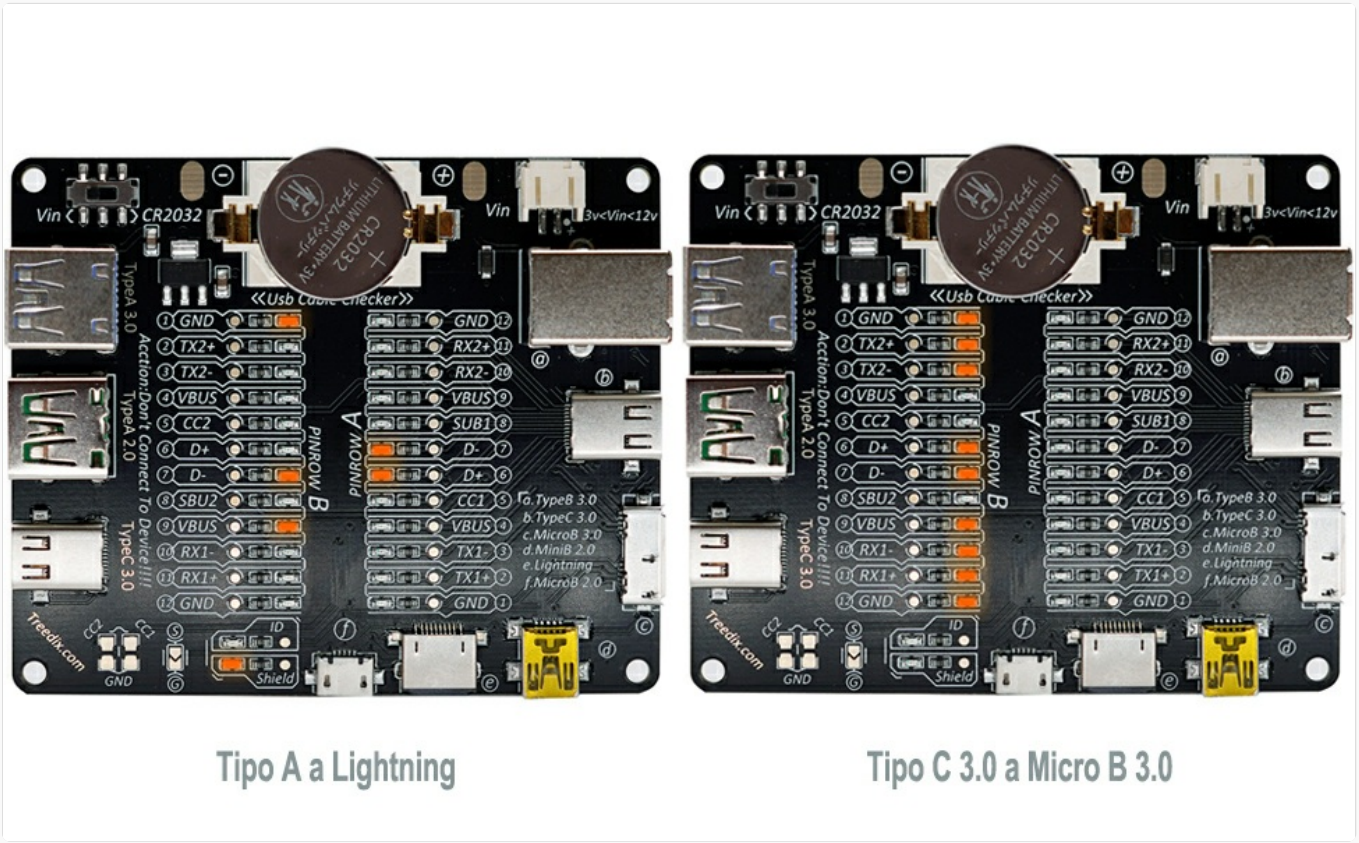


Figure 4.2: LED patterns for a Type A to Lightning cable (left) and a Type C 3.0 to Micro B 3.0 cable (right).

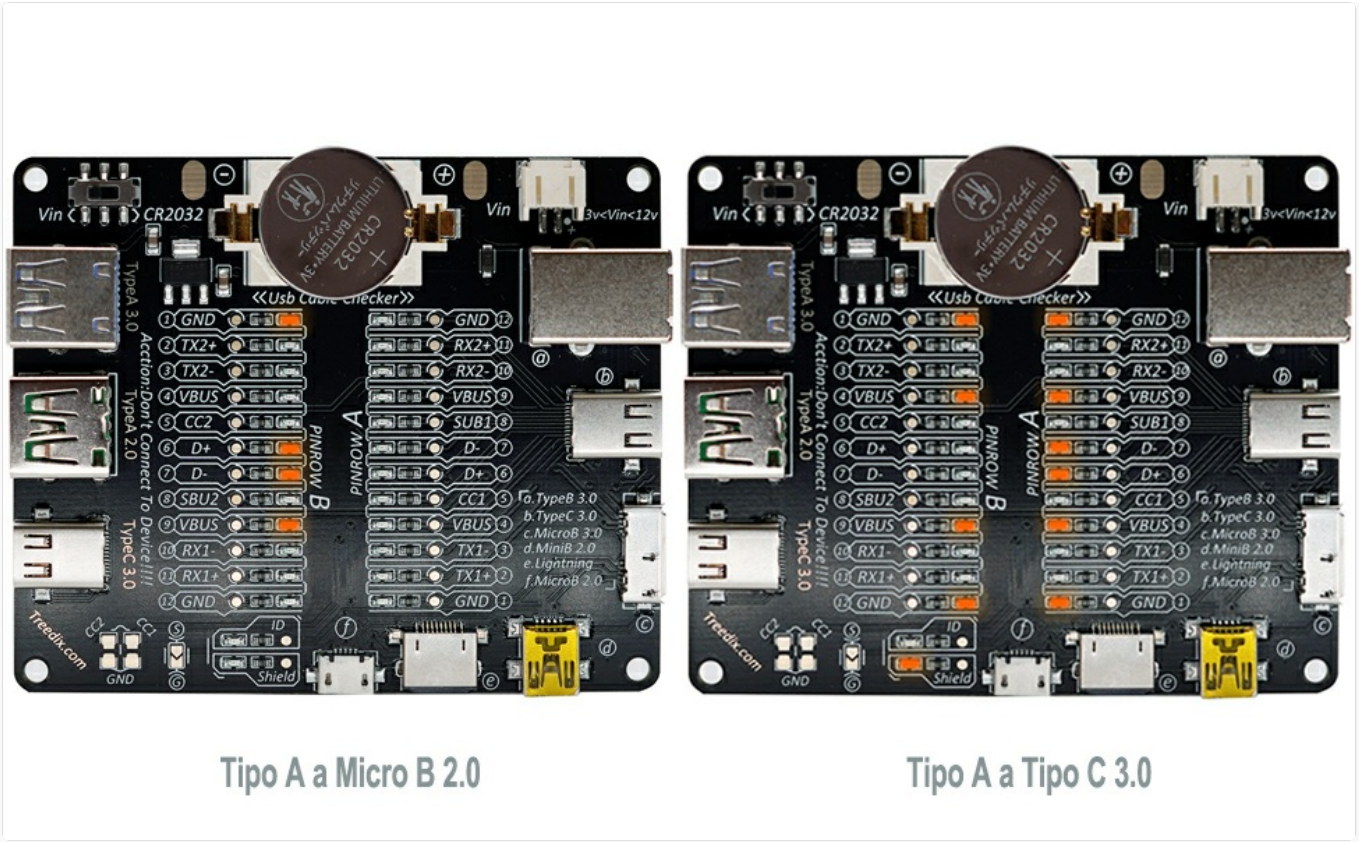


Figure 4.3: LED patterns for a Type A to Micro B 2.0 cable (left) and a Type A to Type C 3.0 cable (right).

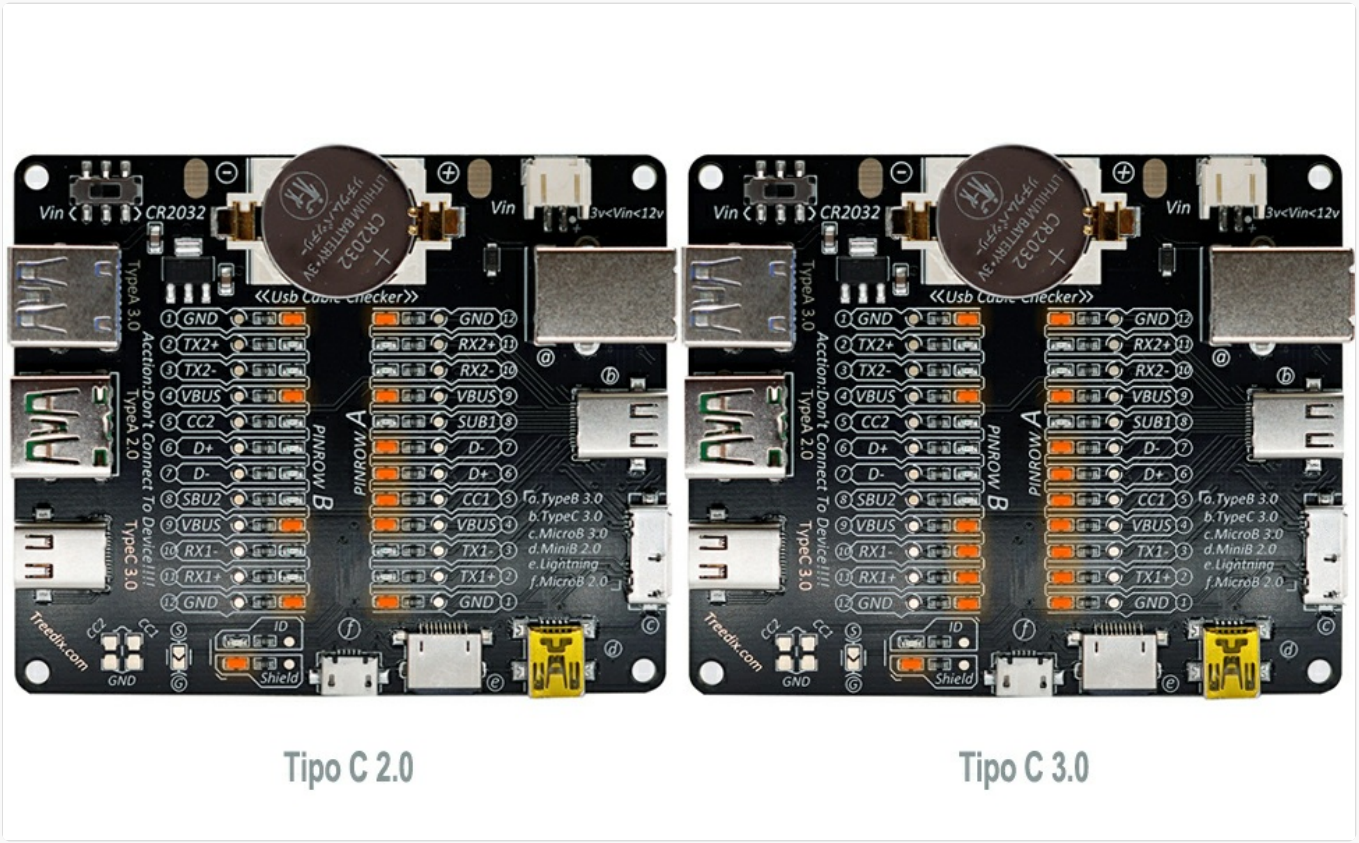


Figure 4.4: LED patterns for a Type C 2.0 cable (left) and a Type C 3.0 cable (right).

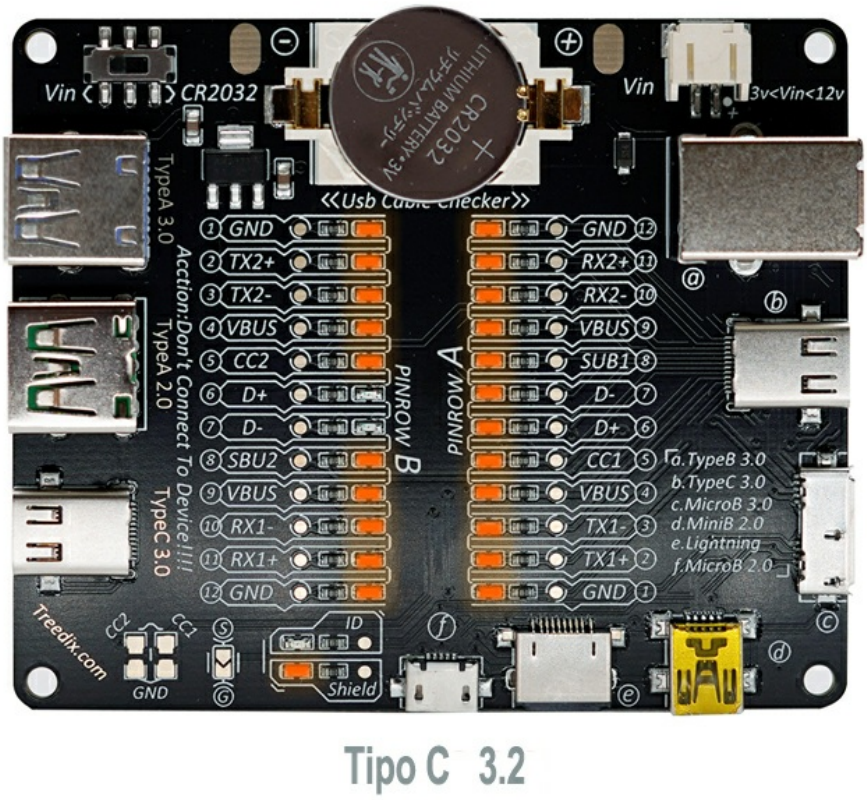


Figure 4.5: LED pattern for a Type C 3.2 cable.

5. Maintenance

- Keep the device clean and dry. Avoid exposure to moisture or extreme temperatures.
- When not in use, store the tester in a safe place to prevent damage to the ports or components.
- Replace the CR2032 battery when the LEDs appear dim or do not light up consistently.
- **Caution:** This device is for cable testing only. Do not connect it to any active devices such as phones, computers, or power adapters while testing, as this may damage the tester or the connected device.

6. Troubleshooting

6.1 No LEDs Light Up

- Ensure the CR2032 battery is correctly installed and the power switch is in the 'ON' position (rotated right for internal battery, or left for external power).
- If using external power, verify the 3-12V Vin connection is secure and providing power.
- Check if the battery needs replacement.

6.2 Unexpected LED Patterns

- Ensure the cable is fully inserted into both ports of the tester.
- Refer to the Pinout Definitions (Figure 2.2) to accurately interpret the LED patterns for your specific cable type.
- A cable showing fewer lit LEDs than expected for its type (e.g., a data cable only showing power pins) indicates a faulty or charge-only cable.

6.3 Inconsistent Readings

- Ensure the connections are stable and there is no movement during testing.
- Clean the ports of the tester and the cable connectors if dust or debris is present.

7. Specifications

Feature	Detail
Brand	Treedix
Model	TRX9-0105-EU
Power Source	CR2032 Lithium Battery (included) or External Vin (3-12V)
Minimum Operating Voltage	3 Volts
Supported Connectors	USB-C, USB-A, USB-B, Micro USB, Mini USB, Lightning
Measurement Type	LCR Meter (Continuity)
Dimensions (approx.)	3.3 in (width) x 2.68 in (height) x 0.98 in (thickness with stand)
UPC	644197772502

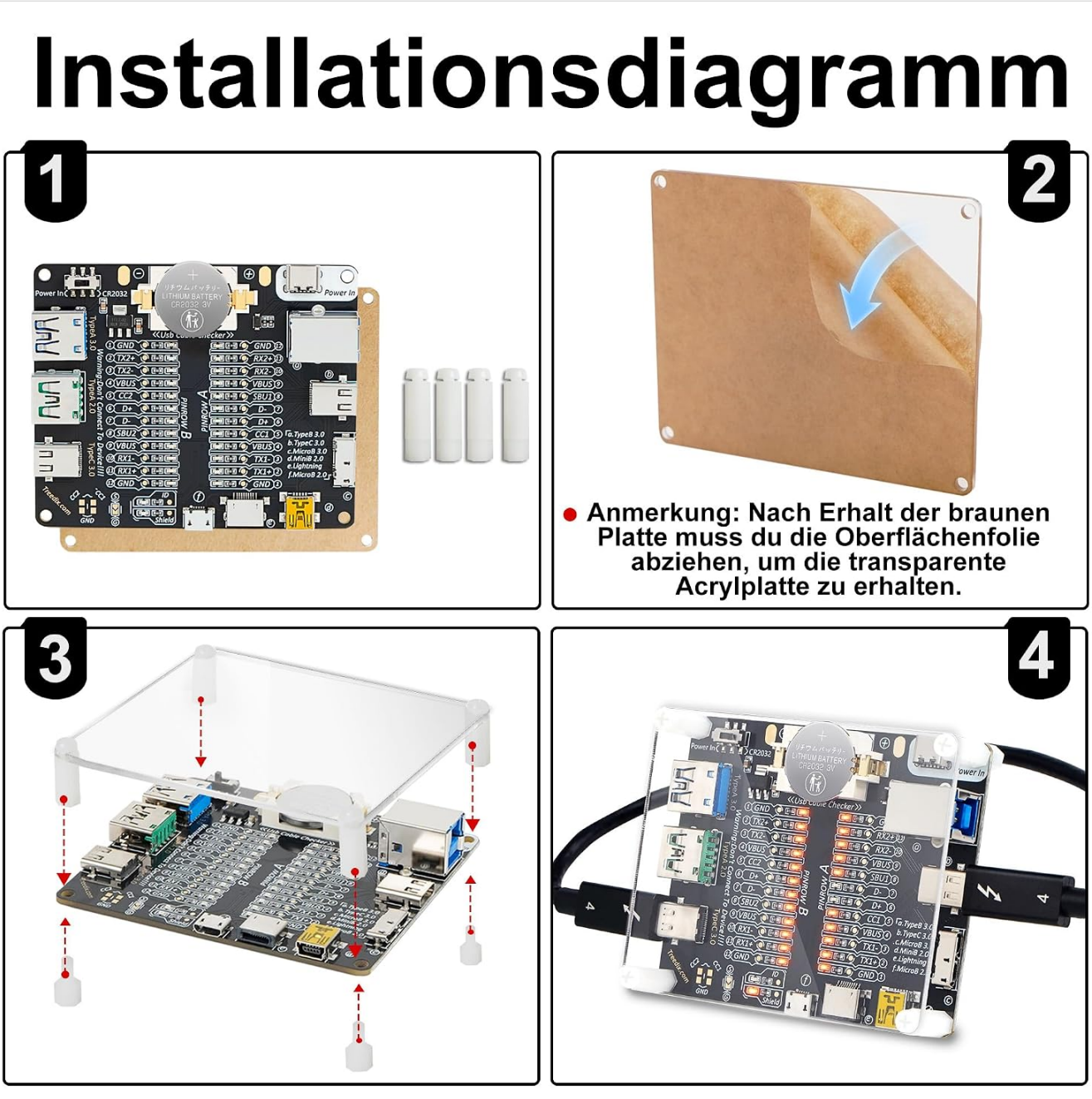


Figure 7.1: Approximate dimensions of the Treedix USB Cable Tester.

8. Warranty and Support

For detailed product information, troubleshooting guides, and support, please refer to the official product page where an online PDF manual is available. This manual provides additional insights into the device's functionality and specific LED interpretations.

For further assistance, please contact Treedix customer support through the retailer's platform or the official Treedix website.

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