ERICAT B0CGYRWX71

ERICAT Digital Brix Refractometer User Manual

Model: B0CGYRWX71

1. Product Overview

The ERICAT Digital Brix Refractometer is designed to measure the sugar content of various substances, including fruits, food products, beverages, crops, and water samples. It is widely utilized in the food industry, beverage industry, agriculture, and agricultural food processing sectors. This device features automatic temperature compensation for enhanced accuracy and a clear display for easy readings.

Key Features:

- **Automatic Temperature Compensation:** Built-in temperature detection (5°C-45°C) automatically corrects measurement errors caused by temperature fluctuations, improving sugar detection accuracy.
- **High Accuracy:** Utilizes a high-precision sensor with a Brix test range of 0-95%. Water temperature does not affect readings.
- **Multifunctional Design:** Measures sugar content in fruits, juices, and liquids, and can also be used for salinity and brewing applications.
- **Accurate Readings:** The upgraded screen displays Brix, temperature, refractive index, and other information clearly, even in sunlight.
- **Wide Application:** IP67 waterproof and drop-resistant, suitable for use by producers, employees, or analysts.

2. Package Contents

Please verify that all items are present in the package:

- 1 x Fruit Sugar Meter (Digital Brix Refractometer)
- 1 x Power Cable (Type-C)
- 1 x Dropper
- 1 x Storage Bag

- 1 x Wipe Cloth
- 1 x User Manual

3. Initial Setup

Charging the Device:

Before first use, fully charge the refractometer. Connect the provided Type-C power cable to the device and a suitable power source. A full charge takes approximately 1 hour and provides over 3 hours of continuous working time, or up to 30 days of standby endurance.

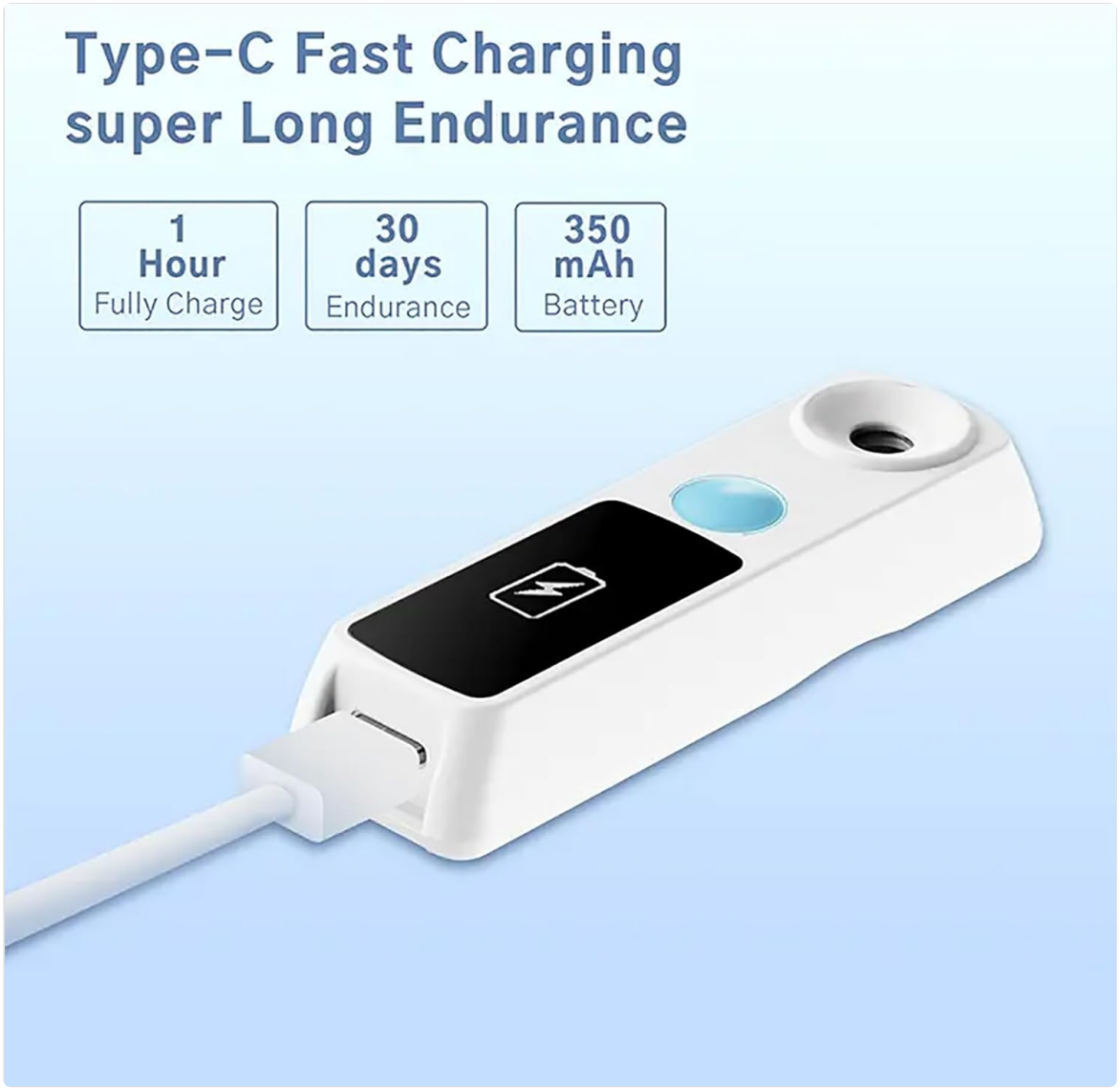

Image: The refractometer connected to a Type-C charging cable, highlighting its fast charging capability and long battery life.

Calibration:

It is crucial to calibrate the device before each measurement session to ensure accurate results. Use pure water for calibration.

4. Operating Instructions

Follow these steps for accurate measurement:

1. **Step 1: Prepare for Calibration.** Turn on the device. Using the dropper, drip pure water into the prism dish until it covers the prism surface.
2. **Step 2: Enter Calibration Mode.** Short press the measurement button, then immediately long press it to enter calibration mode. The display will indicate calibration is in progress.
3. **Step 3: Apply Sample.** After successful calibration (or if not calibrating, after cleaning the prism), drip the liquid sample to be measured into the prism dish. Ensure the sample covers at least 2/3 of the sample tank and fully covers the prism. Do not scratch the prism surface.
4. **Step 4: Measure.** Short press the measurement button. The result will be displayed on the screen.

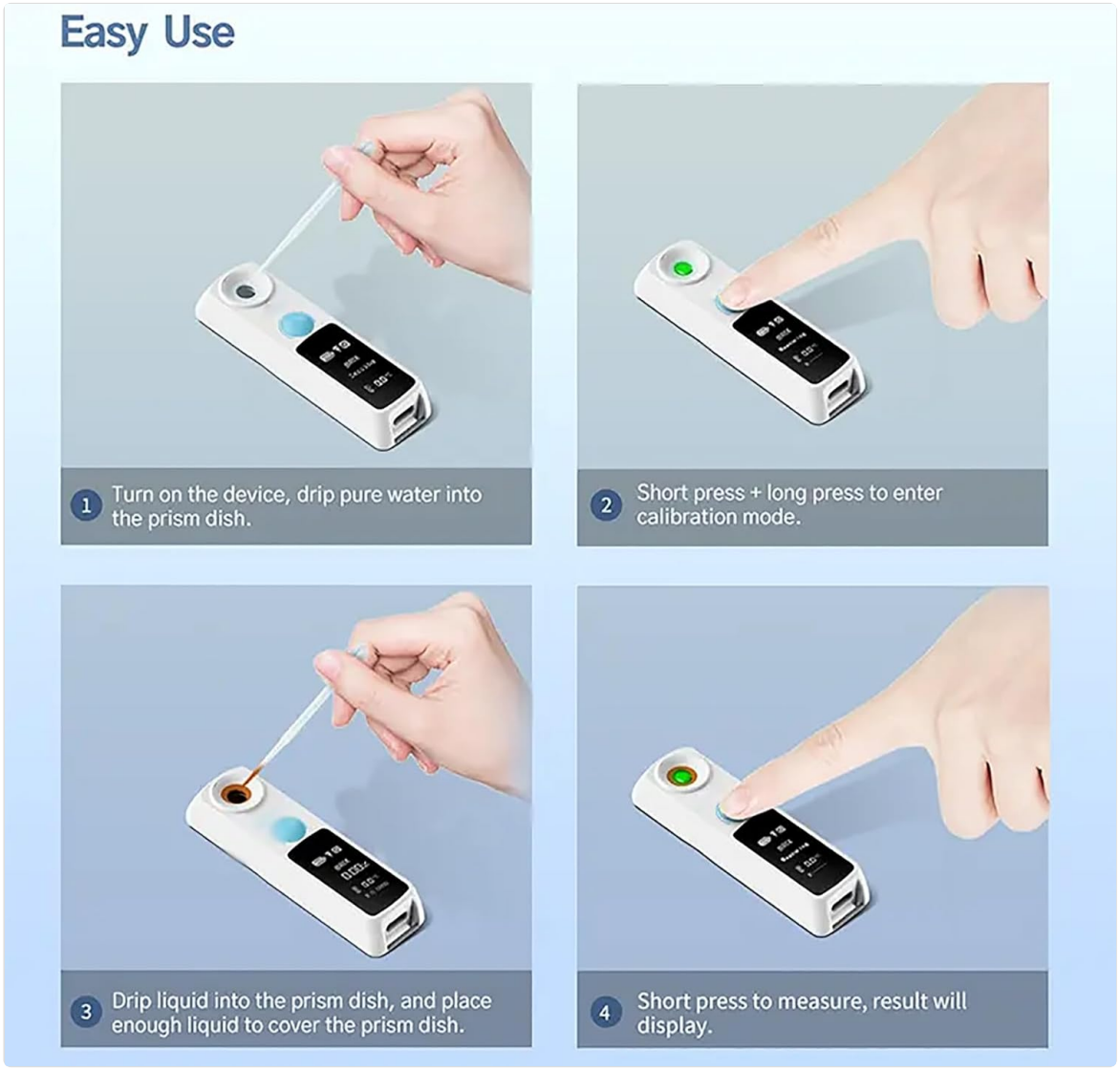

Image: Step-by-step visual guide on how to operate the refractometer, from calibration to measurement.

Understanding the Display:

The OLED display provides clear readings of various parameters:

Image: A detailed view of the refractometer's easy-to-read OLED display, indicating battery level, Brix value, temperature, and refractive index.

- **Battery Level:** Indicates the remaining battery charge.
- **Brix:** The sugar content percentage.
- **Temperature:** The current sample temperature, used for automatic compensation.
- **Refraction Index:** The refractive index of the sample.

App Connectivity:

The refractometer can link with a dedicated mobile application to save, analyze, and share measurement data. Refer to the app's instructions for pairing and usage.

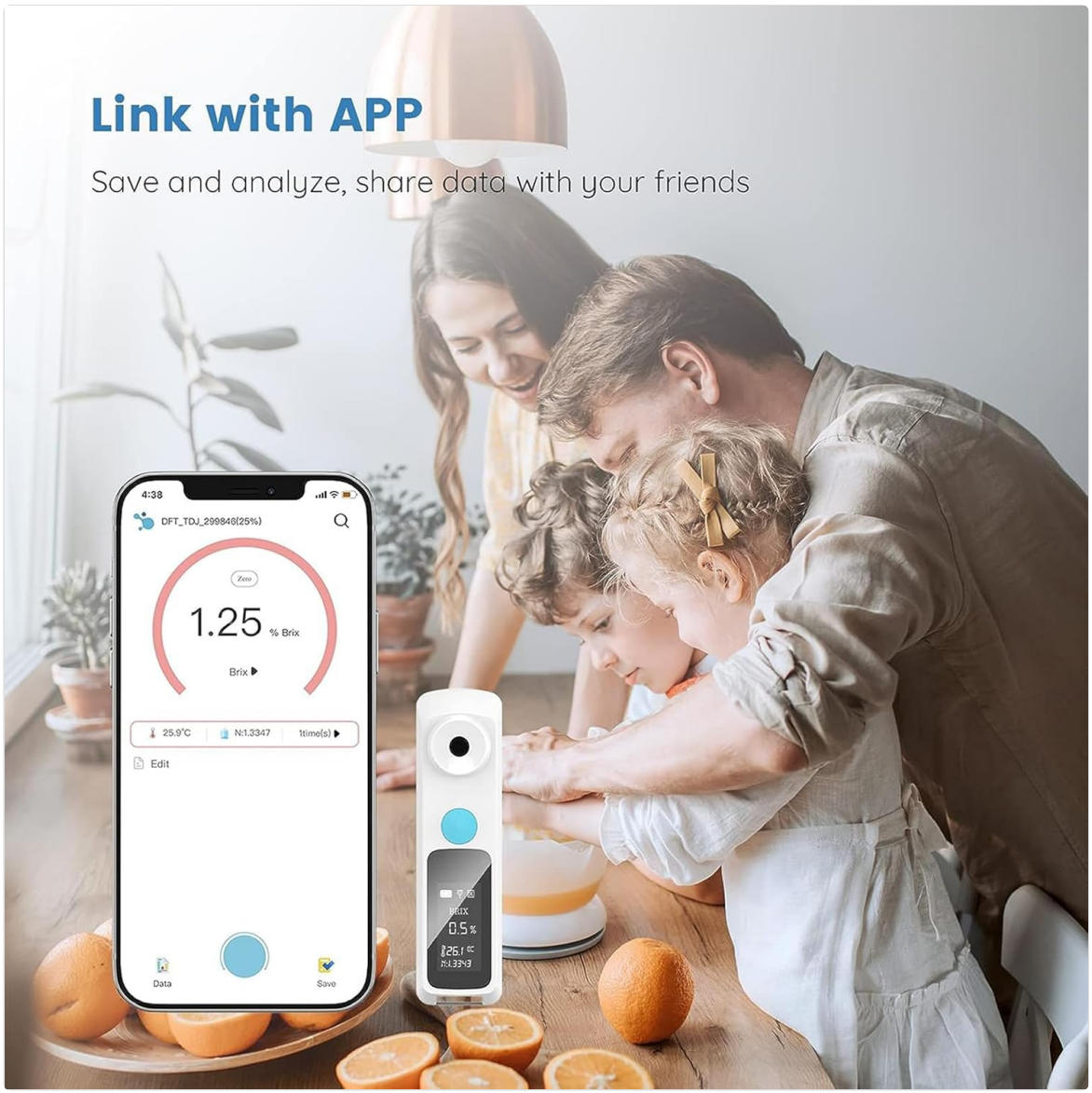

Image: The refractometer connected to a smartphone app, demonstrating its ability to save and analyze data.

Outdoor Use:

The device is designed for portability and can be used outdoors, even in sunlight, to test fruits and other crops directly.

Image: A person using the portable refractometer to test fruit sugar content in an outdoor setting, highlighting its ease of use and readability in sunlight.

5. Care and Maintenance

Cleaning the Prism:

After each use, clean the prism surface thoroughly with the provided wipe cloth or a soft, lint-free cloth. Use pure water to rinse off any residue. Ensure no scratches occur on the prism surface, as this can affect measurement accuracy.

Waterproof and Durability:

The refractometer has an IP67 waterproof rating, meaning it is protected from dust and can withstand immersion in water up to 1 meter for 30 minutes. It is also designed to be drop-resistant, passing a 1.5-meter dropping test.

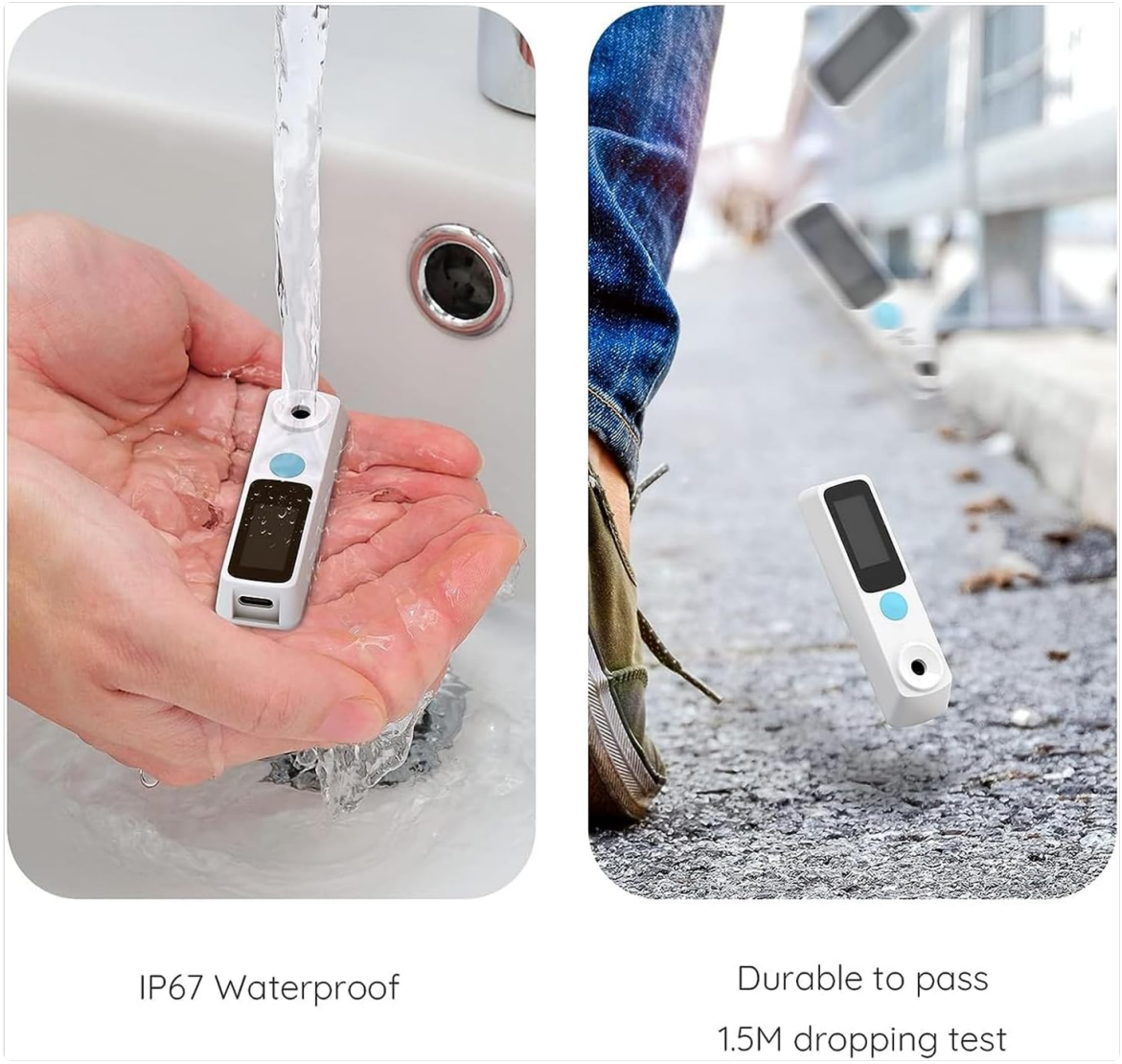

Image: Visual representation of the refractometer's IP67 waterproof capability and its durability against drops.

Storage:

Store the device in the provided storage bag in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.

6. Troubleshooting

If you encounter issues with your refractometer, please refer to the following common problems and solutions:

- **Inaccurate Readings:**
  - Ensure the device is calibrated with pure water before use.
  - Clean the prism thoroughly to remove any residue.
  - Verify that the sample covers the prism sufficiently (at least 2/3 of the sample tank).
  - Ensure the operating temperature is within the specified range (5-45°C).
- **Device Not Turning On:**
  - Check the battery level and recharge the device if necessary.
  - Ensure the power cable is properly connected during charging.

- **Display Issues (e.g., blank screen, flickering):**
  - Attempt to restart the device.
  - If the issue persists, contact customer support.

7. Specifications

Detailed technical specifications for the ERICAT Digital Brix Refractometer:

Parameter	Specification
Product Name	Fruit Sugar Meter (Digital Brix Refractometer)
Model	B0CGYRWX71
Brix Measurement Range	0-95%
Resolution	0.05%
Precision	0.1%
Operating Temperature Range	5-45°C
Automatic Temperature Compensation	Yes
Power Supply	350mAh Rechargeable Lithium Battery
Continuous Working Time	More than 3 hours
Waterproof Grade	IP67
Product Dimensions (L*W*H)	84mm * 23mm * 14.5mm
Manufacturer	ERICAT

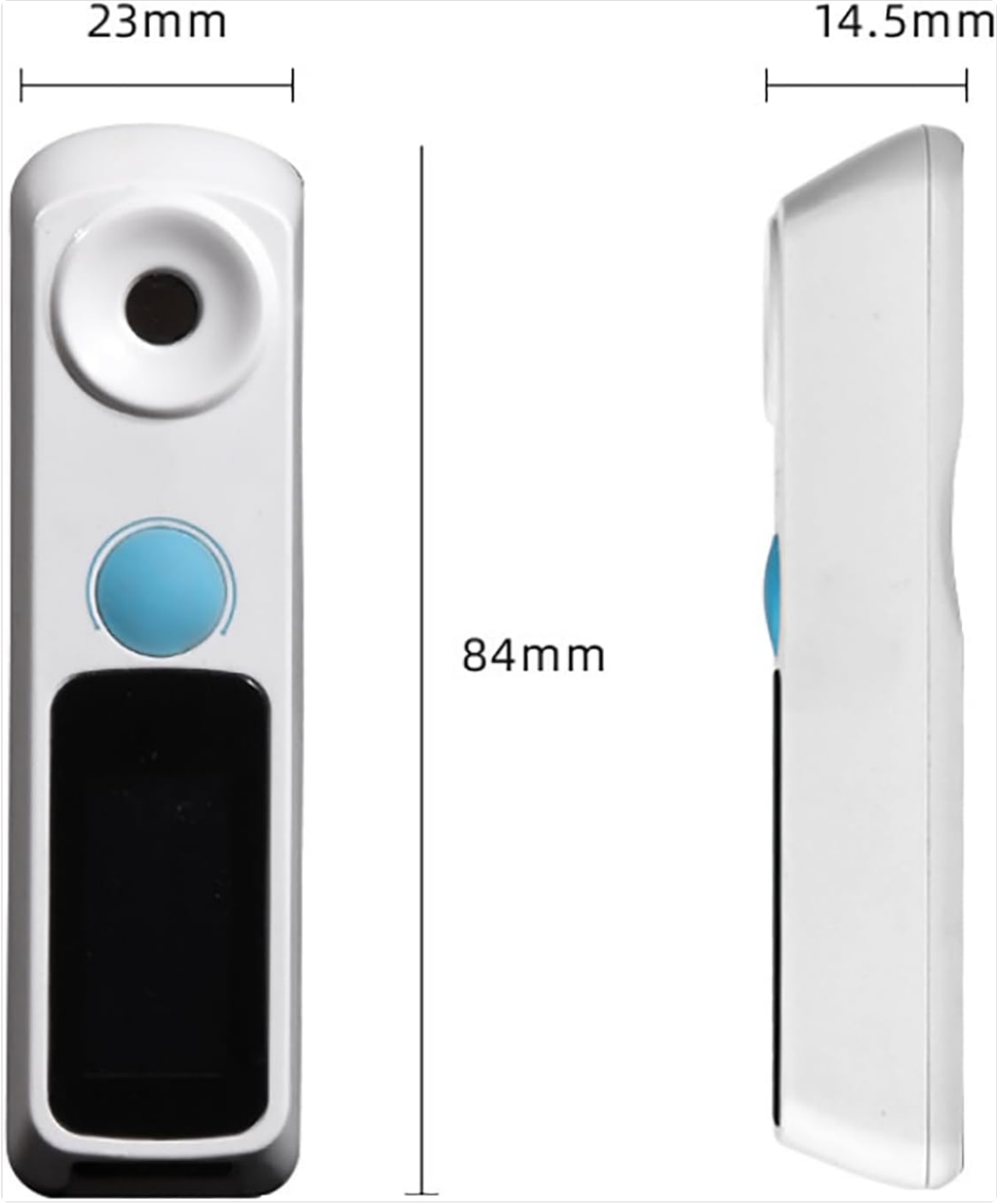

Image: Dimensional drawing of the refractometer, illustrating its compact size.

8. Warranty and Support

Warranty Information:

Specific warranty details for this product are not provided in the available information. Please refer to the product packaging or contact your retailer/seller for warranty terms and conditions.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your product, please contact the seller or manufacturer directly. Refer to your purchase documentation for contact information.