Aicevoos Q6

Aicevoos Digital Sugar Brix Refractometer Q6 User Manual

Model: Q6

Introduction

The Aicevoos Digital Sugar Brix Refractometer Q6 is a precision instrument designed for measuring the sugar content (Brix) in various liquids. It features automatic temperature compensation, a clear LCD backlit screen, and provides quick measurements. This manual provides essential information for the proper setup, operation, and maintenance of your device.

Image: The Aicevoos Q6 Digital Sugar Brix Refractometer, shown with various fruits and juices, highlighting its application in measuring sugar content.

Applications

This refractometer is suitable for a wide range of applications requiring sugar content measurement, including:

- Fruits and Vegetables: Assessing ripeness and quality.
- Juices and Beverages: Monitoring sugar levels in drinks, coffee, and other liquid products.
- Food Production: Quality control in various food processing stages.
- Agriculture: Evaluating sugar content in crops.

Image: An illustrative diagram showcasing the diverse applications of the refractometer for Brix measurement across food, beverages, fruits, and vegetables.

Safety Information

- Do not immerse the entire device in water, despite its water-resistant rating. Only the sample well is designed for contact with liquids.

- Avoid dropping the device or subjecting it to strong impacts.
- Keep the device away from extreme temperatures and direct sunlight.
- Use only specified battery types (AAA).
- Keep out of reach of children.

Package Contents

Upon opening the package, please verify that all the following items are included:

- 1x Aicevoos Q6 Digital Brix Refractometer
- 3x AAA Batteries
- 1x User Manual (this document)
- 2x Burettes (droppers)

Image: The complete set of product accessories, including the refractometer, AAA batteries, user manual, and two droppers.

Setup

1. Battery Installation

1. Locate the battery compartment on the back of the device.

2. Open the battery cover.
3. Insert three (3) AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.

2. Initial Cleaning

Before first use, gently clean the sample well (prism surface) with a soft, lint-free cloth and a few drops of distilled water. Ensure no residue remains.

3. Calibration (Zeroing)

For accurate measurements, calibrate the refractometer with distilled water before each use or if environmental conditions change significantly.

1. Ensure the sample well is clean and dry.
2. Apply a few drops of distilled water to the sample well, ensuring the prism surface is fully covered.
3. Close the cover plate gently.
4. Press the "**Zero**" button. The display should show "0.0%" Brix.
5. Clean the sample well thoroughly after calibration.

Image: A visual guide demonstrating the steps for using the refractometer, including pressing the power button, dropping the sample, pressing the measurement button, and cleaning the sample tank.

Operating Instructions

1. Powering On/Off

- To power on, press and hold the power button ( ) for a few seconds.
- To power off, press and hold the power button again, or the device will automatically shut down after a period of inactivity to conserve battery.
- A short press of the power button can toggle the backlight on/off.

2. Taking a Measurement

1. Ensure the sample well is clean and dry from previous measurements or calibration.
2. Using a dropper, apply a few drops of the liquid sample to the sample well. Ensure the prism surface is completely covered, approximately two-thirds of the tank.
3. Gently close the cover plate.
4. Press the "**Meas**" button.
5. The Brix percentage and temperature will be displayed on the LCD screen within 5 seconds.

Image: An illustration highlighting the rapid 5-second data output for temperature, sugar concentration (Brix), and index of refraction.

3. Automatic Temperature Compensation (ATC)

The Aicevoos Q6 features automatic temperature compensation (ATC) within the range of 10°C to 40°C. This function automatically adjusts the measurement results to account for temperature variations, ensuring higher accuracy without manual calculations.

Image: The refractometer being rinsed, illustrating its water resistance, alongside information about its automatic temperature compensation range (10°C to 40°C).

4. Measurement Precautions

To ensure accurate readings, observe the following:

- **Avoid direct squeezing of fruit onto the prism:** This can introduce pulp and uneven liquid, leading to inaccurate results. Use a filtered or well-mixed sample.
- **Temperature range:** Ensure the sample liquid is within the operating temperature range of 10°C to 40°C. Measurements outside this range may be inaccurate.
- **Cleanliness:** Always wipe the sample well clean after each measurement to prevent contamination of subsequent samples.
- **Sample preparation:** For best results, mix the liquid sample well before applying it to the prism.

Image: A visual guide detailing common measurement errors and the correct method for sample preparation and prism cleanliness.

Maintenance

1. Cleaning the Sample Well

- After each measurement, clean the sample well and prism surface immediately.

- Use a soft, lint-free cloth or paper towel and a few drops of distilled water to wipe away any residue.
- Ensure the surface is completely dry before storing or taking another measurement.
- Do not use abrasive materials or harsh chemicals, as they can damage the prism.

2. Water Resistance (IP65)

The Aicevoos Q6 is rated IP65 water-resistant, meaning it is protected against dust ingress and low-pressure water jets from any direction. This makes cleaning the sample well easier. However, it is not designed for full immersion.

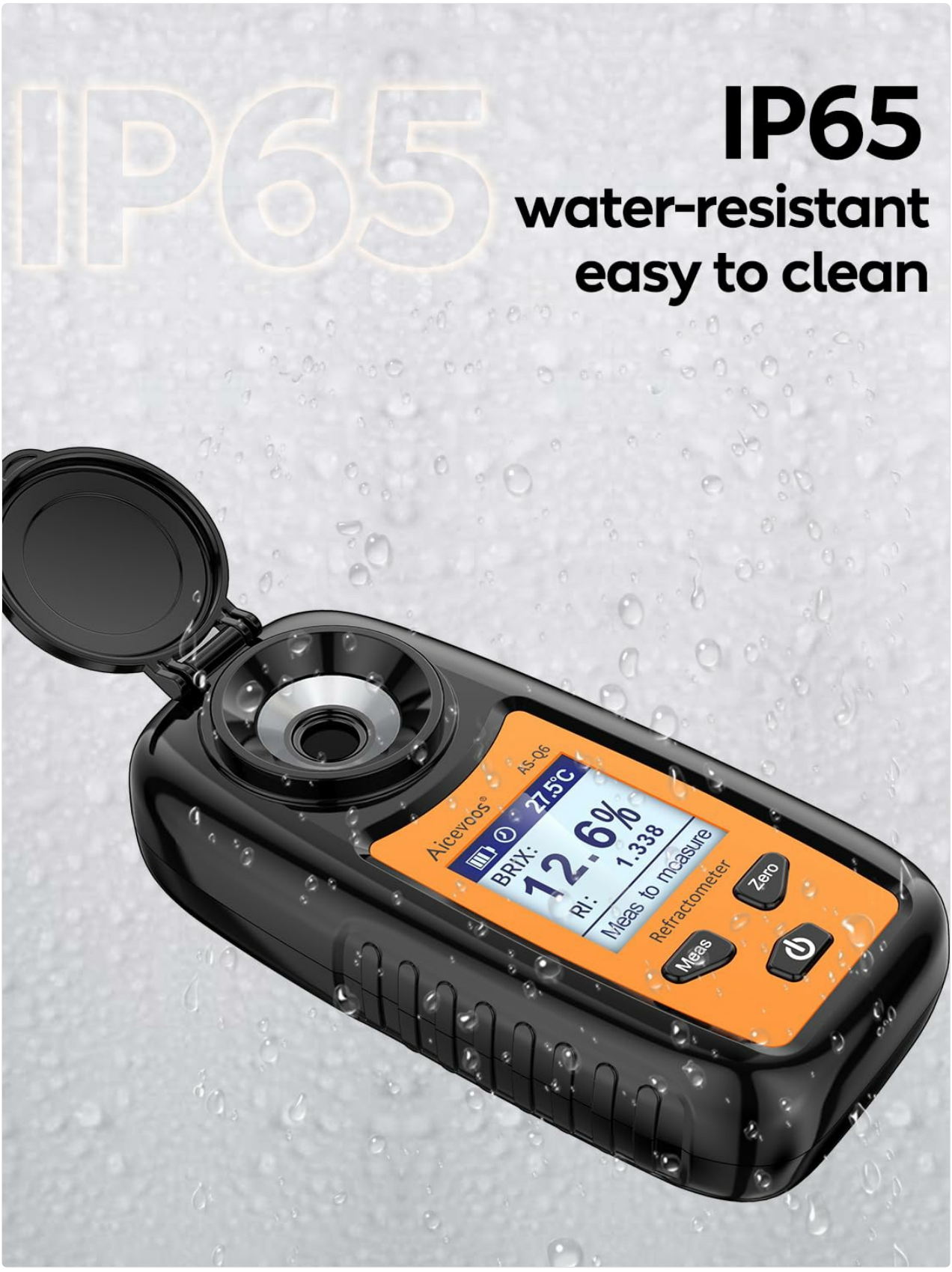


Image: The refractometer covered in water droplets, illustrating its IP65 water-resistant design for easy cleaning.

3. Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove the batteries to prevent leakage.

Troubleshooting

Problem	Possible Cause	Solution
Inaccurate readings	• Improper calibration. • Sample well not clean. • Sample temperature outside ATC range. • Insufficient sample volume. • Sample not well-mixed.	• Recalibrate with distilled water. • Clean the sample well thoroughly. • Ensure sample is between 10°C and 40°C. • Apply enough sample to cover the prism. • Mix sample thoroughly before testing.
"Add Solution" message	• Insufficient sample in the well. • Sensor not detecting liquid.	• Add more sample to fully cover the prism. • Ensure the sample is evenly spread.
Device does not power on	• Dead or incorrectly installed batteries.	• Replace batteries with new AAA batteries. • Check battery polarity.
Display is dim or flickering	• Low battery power.	• Replace batteries.

Specifications

Model	AS-Q6
Measurement Range	0-35% Brix
Resolution	0.1%
Accuracy	±0.2% Brix / ±0.5°C
Automatic Temperature Compensation (ATC)	10°C - 40°C

Environmental Operating Temperature	10°C - 40°C
Index of Refraction Range	1.333 - 1.426
Power Source	3 x 1.5V AAA Batteries
Dimensions (L x W x H)	11.3 x 5.6 x 2.6 cm (approx. 4.45 x 2.2 x 1 inches)
Weight	Approx. 8.15 ounces (with batteries)
Water Resistance	IP65
Display	LCD Backlit Screen

PRODUCT PARAMETERS

Model	AS-Q6
Range	0~35%Brix
Resolution	0.1%
Temperature compensation	10°C~40°C
Environmental temperature	10°C~40°C
Accurate	±0.2%/±0.5°C
index of refraction	1.333~1.426
batteries	3×1.5V AAA
Size	11.3× 5.6 × 2.6 cm 0.37× 0.18 × 0.08 ft

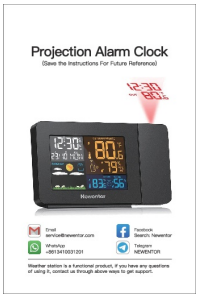
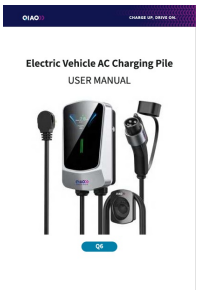
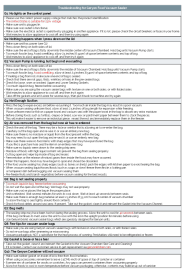
Image: A detailed table outlining the technical specifications and parameters of the Aicevoos AS-Q6 refractometer.

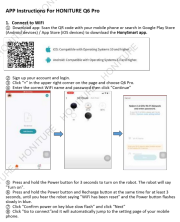
Warranty and Support

For warranty information, technical support, or any questions regarding your Aicevoos Digital Sugar Brix Refractometer Q6, please refer to the contact information provided with your purchase or visit the official Aicevoos website. Please retain your proof of purchase for warranty claims.

> Contact us with any questions or concerns.

Related Documents - Q6

	Newentor Projection Alarm Clock with Weather Station User Manual Comprehensive user manual for the Newentor Q6 Projection Alarm Clock, detailing features, operation, time setting, alarms, temperature and humidity display, weather forecasting, projection, lighting, low battery indicators, and product specifications.
	Electrolux WELL Q6/Q7/Q7-P Cordless Stick Vacuum Instruction Manual This instruction manual provides comprehensive guidance for the Electrolux WELL Q6, Q7, and Q7-P cordless stick vacuum cleaners, covering assembly, operation, charging, and maintenance procedures to ensure optimal performance and longevity.
	Electrolux WELL Q6/Q7/Q7-P Cordless Vacuum Cleaner Instruction Book Instruction manual for the Electrolux WELL Q6, Q7, and Q7-P cordless stick vacuum cleaners, detailing assembly, usage, maintenance, and charging.
	QIAO Q6 Electric Vehicle AC Charging Pile User Manual Comprehensive user manual for the QIAO Q6 Electric Vehicle AC Charging Pile, covering installation, operation, troubleshooting, and warranty information. Learn how to safely and efficiently charge your electric vehicle with QIAO's advanced charging solutions.
	Troubleshooting Guide for Geryon Food Vacuum Sealer A comprehensive troubleshooting guide for the Geryon Food Vacuum Sealer, covering common issues such as no lights, lid not closing, insufficient suction, bag sealing problems, and container vacuuming issues. Includes tips for vacuum sealer bags and gasket maintenance.



APP Instructions For HONITURE Q6 Pro

1、Connect to WiFi

① Download app: Scan the QR code with your mobile phone or search in Google Play Store (Android devices) / App Store (iOS devices) to download the HonySmart app.

② Sign up your account and login.
③ Click "+" in the upper right corner on the page and choose Q6 Pro.
④ Enter the correct WiFi name and password then click "Continue".

⑤ Press and hold the Power button for 3 seconds to turn on the robot. The robot will say "Power on".
⑥ Press and hold the Power button and Recharge button at the same time for at least 3 seconds, until you hear the robot saying "WiFi has been reset" and the Power button flashes slowly.
⑦ Click "Confirm power on key blue slow flash" and click "Next".
⑧ Click "Go to connect",and it will automatically jump to the setting page of your mobile phone.

[HONITURE Q6 Pro Robot Vacuum App Instructions]

A comprehensive guide to using the HonySmart app for the HONITURE Q6 Pro robot vacuum, covering Wi-Fi connection, cleaning modes, map editing, and advanced features.