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› [CNYST](#) /

› [CNYST 60-Degree Gloss Meter Instruction Manual - Model 2025090103](#)

CNYST 2025090103

CNYST 60-Degree Gloss Meter Instruction Manual

Model: 2025090103

1. INTRODUCTION

This instruction manual provides comprehensive guidance for the safe and effective use of the CNYST 60-Degree Gloss Meter, Model 2025090103. This device is designed for accurate gloss measurement of various surfaces, including paint, coatings, plastics, inks, rubber, printing, paper, glass, hardware, ceramics, and marble. Please read this manual thoroughly before operation and retain it for future reference.



Figure 1: CNYST 60-Degree Gloss Meter main unit.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the device:

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping the device or subjecting it to strong impacts.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep the measurement aperture clean and free from dust or debris to ensure accurate readings.
- Use only the specified battery type (AAA dry battery) and ensure correct polarity.
- Dispose of batteries according to local regulations.

3. PRODUCT OVERVIEW

The CNYST 60-Degree Gloss Meter is a compact and portable device designed for precise gloss measurement. It features a 2.3-inch black and white display for clear readings and a simple interface for ease of use.

3.1 Components

- Main Unit
- Calibration Plate
- Simple Instruction Manual



Figure 2: Top view of the gloss meter, highlighting the display and control buttons.



Figure 3: Side view of the gloss meter, showing the USB port for power supply and the product serial number.

4. SETUP

4.1 Battery Installation

The device requires one AAA dry battery (not included). To install the battery:

1. Locate the battery compartment cover on the device.
2. Open the cover.
3. Insert one AAA battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 4: Illustration of battery compartment location and test button.

4.2 Initial Calibration

Before first use and periodically thereafter, calibrate the gloss meter using the provided calibration plate. This ensures measurement accuracy.

1. Ensure the calibration plate is clean and free of dust or fingerprints.
2. Place the gloss meter firmly onto the calibration plate, aligning the measurement aperture with the designated area on the plate.
3. Follow the on-screen instructions for manual calibration.



Figure 5: The gloss meter positioned next to its calibration plate.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press the power button to turn the device on. The device will automatically power off after 30 seconds of inactivity to conserve battery life.

5.2 Taking a Measurement

The gloss meter operates in a basic measurement mode, providing quick and accurate readings.

1. Ensure the surface to be measured is clean and dry.
2. Place the measurement aperture of the gloss meter firmly and flatly against the surface.
3. Press the "Test" button (refer to Figure 4).
4. The gloss value will be displayed on the screen within approximately 0.5 seconds.
5. The measurement area for the 60° angle is 9x15 mm.

5.3 Language Selection

The device supports both Chinese and English languages. Refer to the on-screen menu to switch between languages if necessary.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your gloss meter.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. For the measurement aperture and calibration plate, use a lens cleaning cloth or a soft, lint-free cloth with a small amount of isopropyl alcohol if necessary. Avoid abrasive cleaners.
- **Storage:** Store the device in a dry, cool place, away from direct sunlight and extreme temperatures. The storage temperature range is -20°C to 50°C (-4°F to 122°F).
- **Battery:** Remove the battery if the device will not be used for an extended period to prevent leakage.
- **Calibration Plate:** Keep the calibration plate protected from scratches and dirt, as its condition directly affects calibration accuracy.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Device does not power on.	Low or dead battery; incorrect battery installation.	Replace the AAA battery; ensure correct polarity.
Inaccurate or inconsistent readings.	Dirty measurement aperture or calibration plate; device not calibrated; unstable surface.	Clean the aperture and calibration plate; perform manual calibration; ensure the surface is stable and flat.
Display is blank or unreadable.	Battery issue; device malfunction.	Check/replace battery. If problem persists, contact support.

If the problem persists after attempting these solutions, please contact customer support for further assistance.

8. SPECIFICATIONS

Measurement Angle	60°
Measurement Area	9 x 15 mm (at 60°)
Measurement Range	0 ~ 200 GU (Gloss Units)
Graduation Value	1 GU
Measurement Mode	Basic Mode
Measurement Time	0.5 seconds
Repeatability	0 ~ 100 GU: ±0.5 GU 100 ~ 200 GU: ±0.5%
Calibration	Manual Calibration
Auto Power Off	30 seconds
Language	Chinese, English
Display	2.3-inch Black and White Screen

Dimensions (L x W x H)	160 x 52 x 84 mm (6.3 x 2.0 x 3.3 inches)
Weight	Approx. 300 g (0.66 lbs)
Power Supply	1 x AAA Dry Battery (not included), USB power supply dedicated
Operating Temperature	0 ~ 40°C (32 ~ 104°F)
Storage Temperature	-20 ~ 50°C (-4 ~ 122°F)
Humidity Range	< 85% RH, non-condensing

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official CNYST website. Optional accessories like a mini printer or Bluetooth 5.0 adapter can be acquired by contacting the manufacturer directly.

