

3NH YG268

3NH YG268 Multi-Angle Gloss Meter User Manual

Model: YG268

1. INTRODUCTION

The 3NH YG268 Tri-angle Gloss Meter is designed for precise surface gloss measurement. It is manufactured in accordance with international standard ISO2813 and China standard GB/T 9754. This device features auto-calibration and advanced QC software, meeting the first-grade requirements of JJG696. The YG268 series gloss meter offers USB/RS-232 interface and Bluetooth 2.1 dual mode connectivity for versatile data management.

1.1 Safety Information

- Always operate the device in a stable environment, free from excessive vibration or extreme temperatures.
- Avoid exposing the measurement aperture to direct sunlight or strong artificial light sources.
- Do not attempt to disassemble or modify the device, as this will void the warranty and may cause damage.
- Keep the calibration plate clean and free from scratches to ensure accurate measurements.
- Use only the specified power supply or batteries.

2. PRODUCT FEATURES

- Ergonomic design for comfortable handling.
- Automatic calibration function for ease of use.
- Complies with JJG696 first-grade requirements.
- Large data storage capacity for over 35,000 measurements.
- Adjustable auto power-off feature (30-120 seconds).
- Adheres to ISO2813, ASTM523, and GB/T9754 standards.
- Includes PC software for quality reporting and extended functionalities.
- Multiple working modes to suit various measurement requirements.

3. SPECIFICATIONS

Parameter	Specification
Model	YG268 Tri-angle Gloss Meter
Measuring Angle	20°, 60°, 85°
Measuring Area	20°: 0-2000GU, 60°: 0-1000GU, 85°: 0-160GU
Division Value	0.1GU
Measuring Modes	Basic, Statistic, Continuous, QC mode
Measuring Time	0.5S
Repeatability	0~100GU: ±0.2GU; 100~2000GU: ±0.2%GU
Accuracy	Conforms with JJG696 first grade requirements
Auto Power-off Time	30s-120s (adjustable)
Long-time Calibration	Automatic check and calibration
Language	Chinese & English
Storage	35,000 data points (Basic/Statistic: 1500; Continuous: 10000; QC mode: 10000)
Display	2.3 inch white and black screen
Size	160 x 52 x 84 mm
Weight	Approximately 300g
Power Supply	1x dry-cell battery (approx. 10,000 measurements) or USB charge
Interface	USB & Bluetooth 2.1 version
PC Software	GQC6 QC software for testing reports and extended functions
Operation Temperature	0-40°C (32-104°F)
Storage Temperature	-20-50°C (-4-122°F)
Humidity Range	<85% RH, non-condensing
Standard Accessories	USB cable, user manual, calibration plate, QC software

4. SETUP

4.1 Unpacking and Inspection

Upon receiving your 3NH YG268 Gloss Meter, carefully unpack all components. Verify that the following items are present:

- 3NH YG268 Gloss Meter unit
- USB cable

- User manual
- Calibration plate
- QC software CD (or download link)



Figure 1: The 3NH YG268 Gloss Meter and its standard accessories, including the USB cable, user manual, and calibration plate, neatly organized within its protective carrying case.

4.2 Powering the Device

The YG268 can be powered by a dry-cell battery or via USB. Insert the battery into the designated compartment, ensuring correct polarity. Alternatively, connect the device to a USB power source using the provided USB cable.

4.3 Initial Calibration

Before first use and periodically thereafter, perform a calibration. Remove the protective cover from the gloss meter to expose the measurement aperture and the internal calibration standard.



Figure 2: The 3NH YG268 Gloss Meter with its protective cover detached, revealing the internal calibration standard and the measurement aperture.

Place the gloss meter firmly onto the external calibration plate. Follow the on-screen prompts to initiate the auto-calibration process. The device will automatically check and perform the necessary adjustments.



Figure 3: The 3NH YG268 Gloss Meter positioned on a red calibration plate, ready for or during a measurement or calibration procedure.

5. OPERATION

5.1 Basic Measurement

1. Ensure the device is calibrated.
2. Select the desired measuring angle (20°, 60°, or 85°) using the navigation buttons.
3. Place the measurement aperture of the gloss meter firmly and flat against the surface to be measured.
4. Press the measurement button. The measurement will be completed in approximately 0.5 seconds.
5. The gloss value will be displayed on the screen.



Figure 4: The 3NH YG268 Gloss Meter actively displaying measurement results on its screen, indicating a successful reading.

5.2 Measurement Modes

The YG268 offers several measurement modes:

- **Basic Mode:** For single, quick measurements.
- **Statistic Mode:** Calculates average, max, min, and standard deviation from multiple measurements.
- **Continuous Mode:** Takes measurements at regular intervals.
- **QC Mode:** For quality control applications, often involving pass/fail criteria.

Navigate through the menu using the directional buttons to select the appropriate mode for your application.

5.3 Data Management

The device can store up to 35,000 data points. Connect the gloss meter to a computer via USB or Bluetooth to transfer data using the GQC6 QC software. The software allows for detailed analysis, report generation, and further extended functions.

6. MAINTENANCE

6.1 Cleaning

- Regularly clean the measurement aperture with a soft, lint-free cloth to prevent dust or debris from

affecting readings.

- Wipe the exterior of the device with a slightly damp cloth. Do not use abrasive cleaners or solvents.
- Keep the calibration plate clean and protected from scratches.

6.2 Storage

When not in use, store the 3NH YG268 Gloss Meter in its protective carrying case in a dry, cool environment, away from direct sunlight and extreme temperatures. Ensure the protective cover is placed over the measurement aperture.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

- **Device does not power on:** Check battery installation and charge level. Ensure USB cable is properly connected if using external power.
- **Inaccurate readings:** Perform a calibration. Clean the measurement aperture and the calibration plate. Ensure the device is placed flat and firmly on the sample.
- **Data transfer issues:** Verify USB or Bluetooth connection. Ensure GQC6 QC software is correctly installed and running on the PC.
- **Screen is blank or frozen:** Try restarting the device. If the issue persists, contact customer support.

8. WARRANTY AND SUPPORT

Specific warranty information for the 3NH YG268 Gloss Meter is typically provided with the product packaging or can be obtained from your point of purchase. For technical support, service, or inquiries regarding warranty claims, please refer to the contact information provided by the manufacturer or your authorized distributor.