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GOYOJO CS-380se

GOYOJO Three Angles Gloss Meter CS-380se User Manual

Model: CS-380se | Brand: GOYOJO

1. INTRODUCTION

This user manual provides detailed instructions for the GOYOJO Three Angles Gloss Meter, model CS-380se. This precision instrument is designed for accurate measurement of gloss on various surfaces, including stone, paint, ink, marble, and floors. It features three measurement angles (20°, 60°, and 85°) to accommodate different gloss levels and material types. Please read this manual thoroughly before operating the device to ensure correct usage and optimal performance.



Figure 1: GOYOJO Three Angles Gloss Meter CS-380se

This image displays the GOYOJO Three Angles Gloss Meter, a compact white device with a digital screen showing gloss readings at 85°, 60°, and 20°. It rests on a black calibration base.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Multiple Measurement Angles:** Supports 20°, 60°, and 85° angles for comprehensive gloss evaluation.
- **High Precision:** Resolution of 0.1GU and repetition accuracy of 0.2GU ensure reliable measurements.
- **Extended Battery Life:** Capable of 100,000 continuous measurements on a full charge.
- **USB Type-C Interface:** For convenient charging and data transfer.
- **PC Software Support:** Connects to a computer for data analysis, report generation, and printing.
- **Large Data Storage:** Stores up to 5000 data points directly on the device.
- **Measurement Modes:** Offers both Simple and Statistical measurement modes.

2.2 Measurement Angles and Ranges

- **20° Angle:** Measurement range 0-200GU. Ideal for high gloss surfaces.

- **60° Angle:** Measurement range 0-200GU. Standard angle for medium gloss surfaces.
- **85° Angle:** Measurement range 0-100GU. Suitable for low gloss or matte surfaces.



Figure 2: Three Angle Measurement Capability

This image illustrates the GOYOJO gloss meter positioned at 20°, 60°, and 85° angles, demonstrating its versatility for measuring gloss on various surfaces.

2.3 Applications

The GOYOJO CS-380se gloss meter is suitable for a wide range of applications requiring precise gloss measurement, including:

- Automotive finishes
- Metal hardware and components
- Stone and marble surfaces
- Paint and ink coatings
- Plastic products
- Ceramics

- Flooring materials

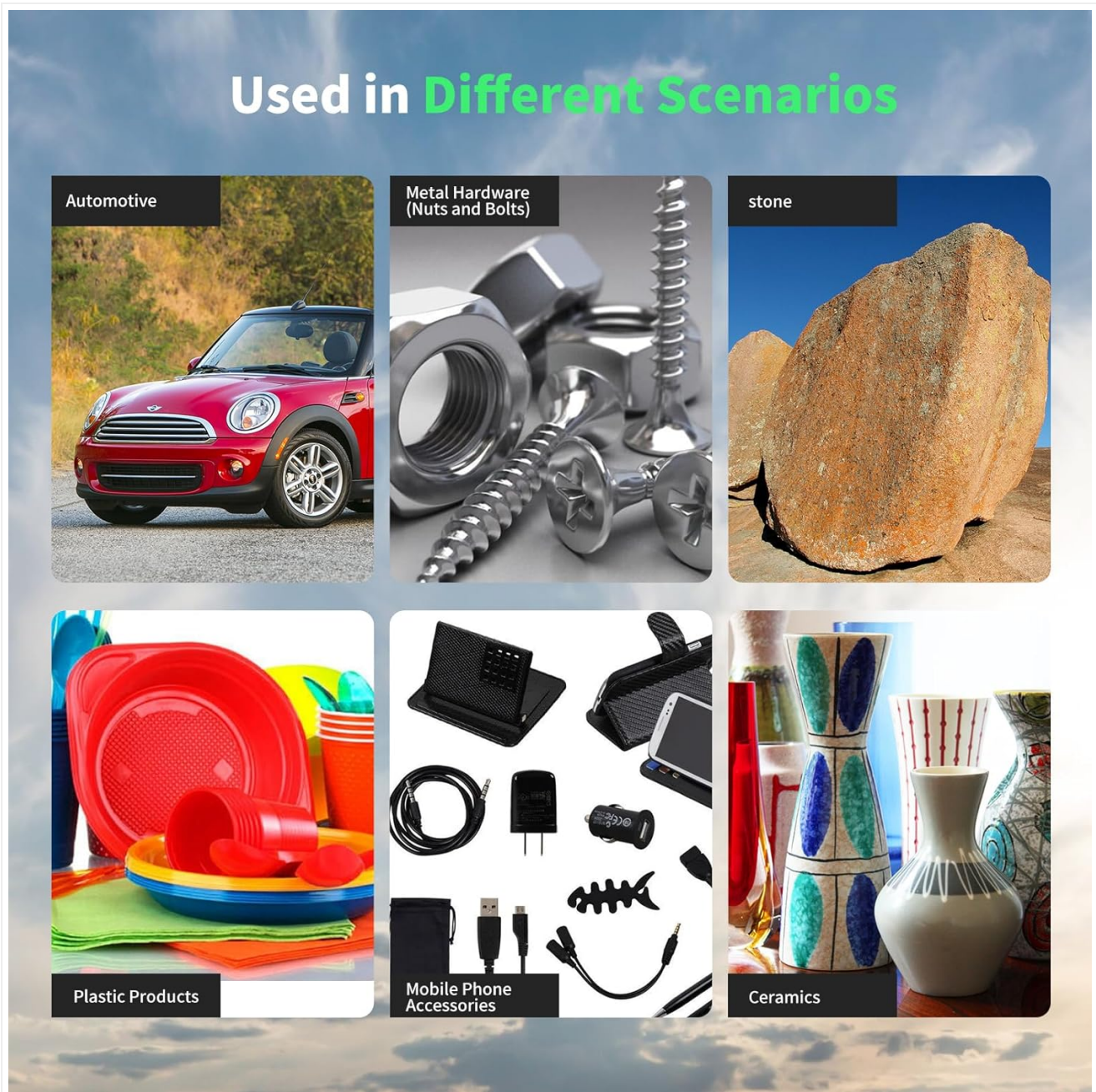


Figure 3: Diverse Application Scenarios

This image displays various materials and products where the gloss meter can be used, such as automotive parts, metal hardware, stone, plastic items, mobile phone accessories, and ceramics.

3. SETUP

3.1 Initial Preparation

1. **Unpacking:** Carefully remove the gloss meter and its accessories from the packaging.
2. **Protective Film Removal:** Before calibration or measurement, ensure you remove the protective film from both the calibration base and the test port of the gloss meter.

3.2 Charging the Device

The gloss meter is equipped with a built-in lithium battery. Use the provided USB Type-C cable to charge the device. Connect the Type-C end to the gloss meter and the USB-A end to a compatible 5V/2A USB power adapter (not included). A full charge provides power for approximately 100,000 measurements.

5V/2A USB fast charging

Ultra-long life, lithium battery charging



Figure 4: USB Type-C Charging

This image shows the GOYOJO gloss meter connected via a USB Type-C cable to a wall adapter for charging, highlighting its fast charging capability.

3.3 Language Settings

To change the device language, navigate to the "Settings" menu on the main interface. From there, select "Language" and choose between English, Portuguese, or Chinese.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

Press and hold the power button (usually labeled "Power" or indicated by a power symbol) to turn the device on or off.

4.2 Calibration

The gloss meter requires calibration before each use to ensure accuracy. The calibration base is integrated into the sensor cover.

1. Ensure the protective film has been removed from the calibration base and test port.
2. Place the gloss meter firmly onto its calibration base.
3. Follow the on-screen prompts to initiate the calibration process. The device will self-calibrate to the standard.
4. Wait for the calibration complete message before proceeding with measurements.

4.3 Measurement Modes

The device offers two primary measurement modes:

- **Simple Mode:** Provides a quick, single gloss reading.
- **Statistical Mode:** Allows for multiple readings and provides statistical analysis, such as average, maximum, minimum, and standard deviation.

Switch between modes using the designated buttons on the device interface (e.g., "Mode" or directional buttons).



Figure 5: Simple and Statistical Modes

This image illustrates the two available measurement modes on the gloss meter's display: a detailed view showing readings for all three angles (Statistical Mode) and a simplified view focusing on a single angle (Simple Mode).

4.4 Taking a Measurement

1. After successful calibration, remove the gloss meter from its base.
2. Place the test port of the gloss meter firmly and flat against the surface to be measured. Ensure there is no gap between the device and the surface.
3. Press the measurement button (often labeled "Measure" or "Enter").
4. The gloss reading(s) will be displayed on the screen.
5. For consistent results, ensure the measurement surface is clean and free of dust or debris.

5. DATA MANAGEMENT

5.1 On-Device Storage

The GOYOJO CS-380se gloss meter can store up to 5000 individual measurement data points directly on the device. You can review stored data through the device's menu interface.

5.2 PC Software Connectivity

For advanced data analysis and reporting, connect the gloss meter to a computer using the provided USB Type-C cable.

1. Install the dedicated QC software on your computer. (Software typically provided on a USB drive or available for download from the manufacturer's website).
2. Connect the gloss meter to your computer via the USB Type-C cable.
3. Launch the QC software. The software will detect the device and allow you to transfer stored data.
4. Within the software, you can analyze measurement trends, generate detailed test reports, and print them directly.

With PC Software to Support Data Analysis

Standard OC software, data can be stored in the computer terminal, export reports



Single Machine can Store 5000 pieces of Data

Figure 6: PC Software for Data Analysis

This image shows the GOYOJO gloss meter connected to a computer displaying its QC software interface, which is used for data analysis, storage, and report generation.

6. MAINTENANCE

6.1 Cleaning

- Keep the gloss meter's test port and calibration base clean. Use a soft, lint-free cloth to gently wipe away dust or smudges.
- Avoid using abrasive cleaners or solvents that could damage the device's optics or casing.

6.2 Storage

- When not in use, store the gloss meter with its protective calibration base attached to shield the test port.
- Store the device in a cool, dry environment, away from direct sunlight, extreme temperatures, and high humidity.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

- **Inaccurate Readings:**
 - Ensure the protective film has been removed from the calibration base and test port.
 - Perform a calibration before each measurement session.
 - Verify the measurement surface is clean and flat against the device.
- **Device Not Powering On:**
 - Check battery level. Charge the device using the USB Type-C cable.
 - Ensure the power button is pressed and held sufficiently.
- **PC Software Connection Issues:**
 - Ensure the USB cable is securely connected to both the device and the computer.
 - Verify that the QC software is correctly installed and updated.
 - Try restarting both the device and the computer.

8. SPECIFICATIONS

The following table details the technical specifications of the GOYOJO Three Angles Gloss Meter CS-380se:

Parameter	Value
Product Model	CS-380se
Measuring Angle	20°, 60°, 85°
Measuring Spot (mm)	20°:10*10, 60°:9*15, 85°:5*38
Measuring Range	20°:0-200GU, 60°:0-200GU, 85°:0-100GU
Graduated Value	0-100:0.1GU, >100:1GU
Repeatability	0-100GU:0.2GU, 100-200GU:0.2%GU
Measurement Mode	Simple mode and statistical mode
Measurement Accuracy	Meets requirements of JJG 696-2015 first-class working gloss meter
Measuring Time	Less than 1.5s
Data Storage	5000 items
Volume (L*W*H)	165*51*77mm
Weight	Approx. 400g
Language	Simplified Chinese, English
Battery Power	3000mAh lithium battery
Battery Life*	Fully charged for 60,000 times
Interface	Type-C
Screen Size	2.4 inch (resolution 320*240)
PC Software	Support
Operating Temperature	0-40°C
Humidity	Less than 85%, no condensation
Accessories	USB cable, manual, U-disk (host computer QC software), calibration standard board, third-party verification certificate
Usage	Paint and ink, coating, electroplating, plastic electronics, hardware and other fields

*Note on Battery Life: The product features indicate approximately 100,000 measurements per full charge, while the specification table states 60,000 times. Actual battery life may vary based on usage patterns and environmental conditions.



Figure 7: Detailed Product Parameters

This image presents a table summarizing the technical specifications of the GOYOJO CS-380se gloss meter, including measurement angles, ranges, accuracy, battery, and other features.