YG45
HIGH PRECISION GLOSSMETER

PC Software

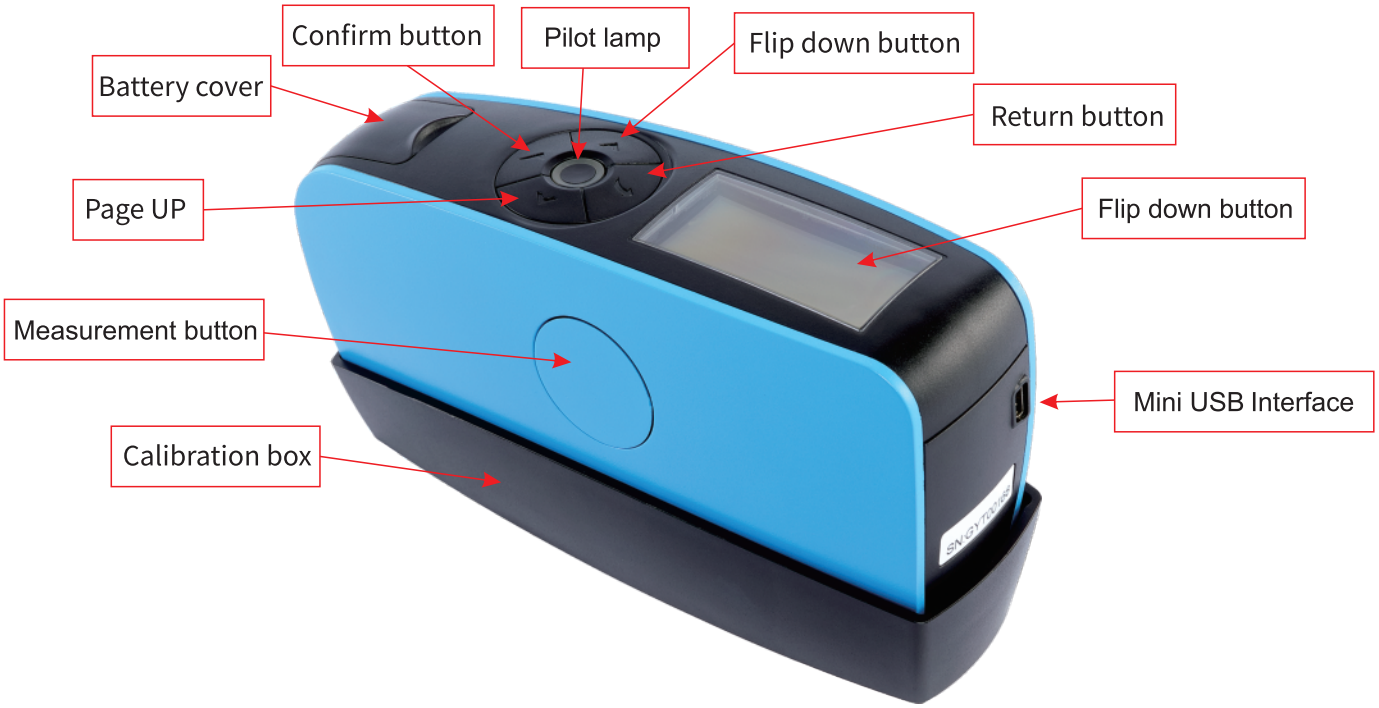
Multimode

Fast measurement

YG45 High-precision Glossmeter

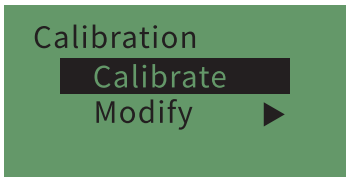
The YG45 high-precision glossmeter is a professional instrument used to measure the surface glossiness of objects. It adopts a 45 ° angle measurement method, which can accurately measure the glossiness of the product surface, and is widely used in the glossiness measurement and quality inspection of industries such as ceramics, film, paper, plastics, etc.

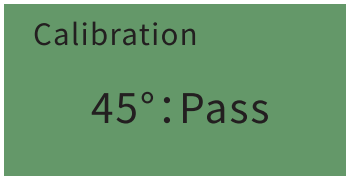
ISO 9001 Certified



45 ° Intelligent Glossmeter

With the development of industry, measurement has entered the era of intelligence, and the market requires a fast and accurate glossmeter for measurement, YG45 was born as a result, it is a high-precision, easy-to-use, and multifunctional glossmeter.
In addition, GQC6, as an intelligent data processing software, is an ideal tool for professional data management and effective data analysis.





Automatic calibration technology

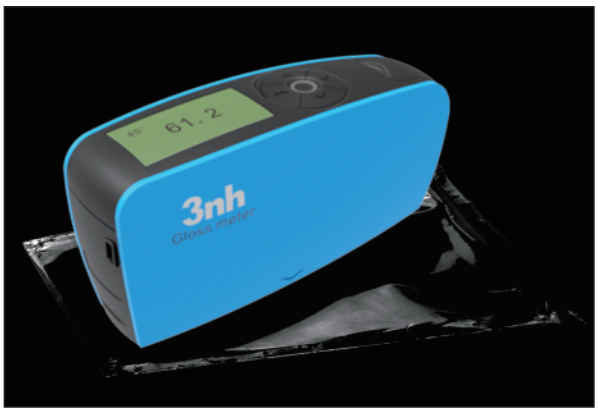
Accurate readings require reliable calibration. Using a professional calibration board, it has high stability and can obtain repeated and consistent calibration data. The base can effectively protect the calibration board from scratches.

Dual calibration technology, automatic calibration upon startup or manual calibration, controlling measurement accuracy from the source.

Surface texture can weaken the quality of surface imaging without affecting the glossiness value. The two products on the right obtained the same data using a traditional glossmeter.

Gloss measurement for special applications

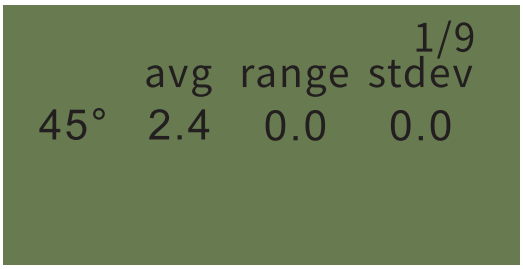
Special materials require special measurement angles:
Ceramic materials, plastic films and hard plastics, paper and cardboard can be measured not only at conventional angles of 20 °, 60 °, and 85 °, but also at 45 ° according to industry standards.

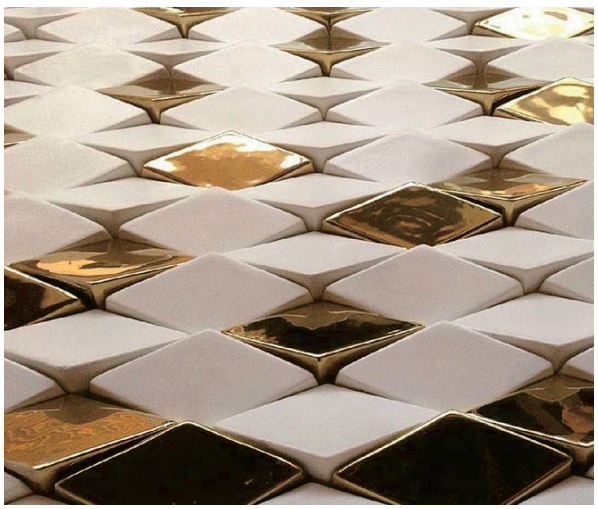


YG45 Glossmeter: Specially used for measuring the gloss of ceramics, plastics, and films

45 ° High-precision Glossmeter

For low to medium gloss products, plastic films and hard plastics, whether transparent or opaque, are usually measured at 45 °. For transparent films, a black matte board needs to be placed behind the sample. If there is no suitable background board, measurement errors may occur.
The standard measurement method requires each sample to measure at least three points to obtain indicators of gloss homogeneity. The high-precision glossmeter statistical measurement mode can display the range of mean and difference, or display the standard deviation value of the homogeneity of the measured sample.





Ceramics, enamel, and other materials use a 45 ° gloss meter, and their acid resistance, alkali resistance, or other environmental factors can be compared by measuring their loss of gloss.

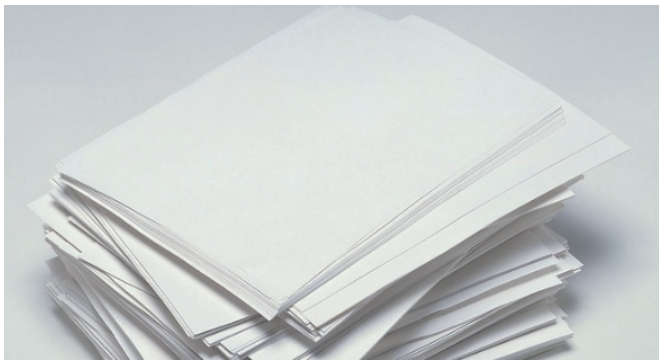
$$\text{Gloss loss}(\%) = \frac{A0-A1}{A0} \times 100$$

A0——Measurement value of gloss before coating;
A1——Measurement value of gloss after coating;

It is necessary to measure the entire sample surface multiple times and take the average value in order to evaluate the changes in gloss, to ensure representative results are obtained.

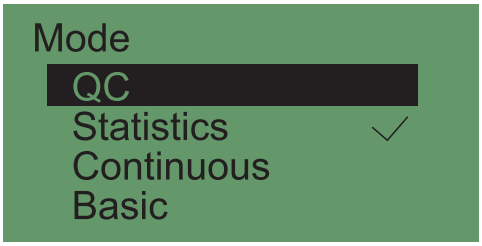
Measure the gloss of paper, ceramics, and plasticsSupports matte and mirror measurements

Using the YG45 glossmeter, it is particularly suitable for measuring the gloss of paper, cardboard, and plastic materials with structured surfaces. The measurement range ranges from matte products to product surfaces with a mirror gloss of 0-800 units, ensuring reliable results and compliance with international standards.



Multiple measurement modes to meet work needs

Different jobs require different measurement modes. The buttons on the instrument can be used to quickly select the desired mode, or the mode can be selected by connecting to a computer:Basic measurement mode: It can quickly and easily measure samples for you.Statistical measurement mode: It not only displays the average value, but also statistical data can be used to determine whether there is measurement error or to determine the homogeneity of the sample. You can customize all the data you want to see: mean, standard deviation, range, maximum/minimumQuality control measurement mode: The quality control mode can compare the measurement results with the standard sample;Continuous measurement mode: It is the most effective method for quickly checking the homogeneity of large area samples. After determining the measurement interval, slide the micro glossmeter continuously on the sample to obtain continuous measurement results immediately. After the measurement is completed, the screen displays the range of average and maximum/minimum values.



Advanced technology ensures measurement

YG45 can adapt to different working environments, even in harsh environments, and can achieve accurate, fast, and reliable measurements, which has been recognized by a large number of users.
Full spectrum lamp beads ensure accurate measurement without missing spectra. High quality lamp beads not only provide long-term stable light sources, but also reduce maintenance costs. Excellent quality and durability.
Thanks to advanced temperature control technology, The YG45 glossmeter ensures highly stable measurement data, whether you are in the laboratory or moving to the production line.
We have multiple patents to ensure that each gloss tester we produce has excellent inter machine differences. And each instrument is measured by professional metrology and testing institutions, which can meet the working requirements of national standards. As long as we use our two glossometers of the same model, we can ensure the consistency of the measurement data.

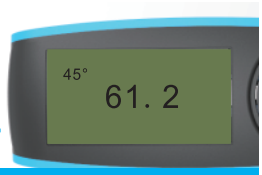
Application:

Paper industry

Thin film industry

Plastic industry

Product features:



Good operating experience

The streamlined surface design is more ergonomic and can maintain comfortable grip even during daily or continuous work, effectively avoiding fatigue and providing users with a good operating experience.

Multimode measurement

Supports switching between basic mode, statistical mode, continuous mode, and quality management mode. Normal mode allows for immediate measurement and quick reading; The quality management mode allows for customizable upper and lower limits, enabling rapid detection of incoming materials.

low-power consumption

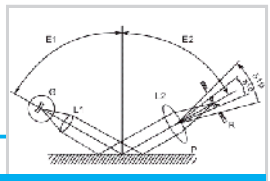
A fully charged No. 5 battery (AA alkaline battery or nickel hydrogen rechargeable battery) can be tested more than 10000 times.

Calibration function

Support regular calibration and have the function of automatically checking calibration standard boards to ensure the accuracy and reliability of long-term measurements.

Lightweight and portable

Lightweight design, easy to carry, not only suitable for precise laboratory measurements, but also convenient for flexible application in production sites.

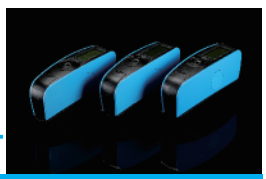


Industrial grade standard

Professional glossmeter measurement, meeting the requirements of JJG696 standard working glossmeter.

Authoritative testing reports

The instruments are calibrated according to the measurement standards of authoritative calibration departments before leaving the factory, and the measurement data is traced back to the National Institute of Metrology to ensure the authority of instrument testing data.



The gap between instruments

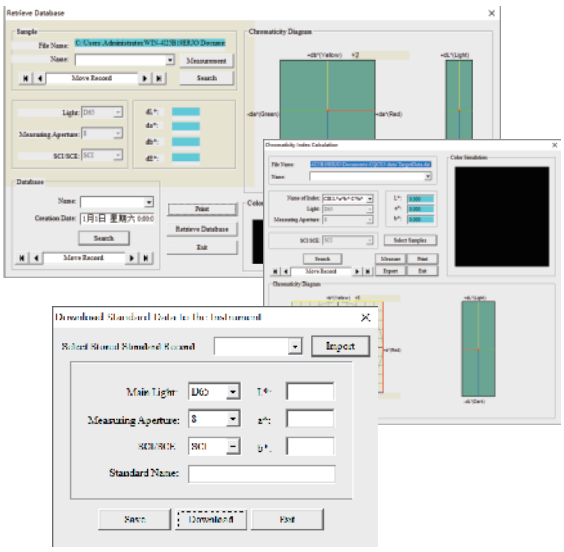
Few differences between instruments and excellent repeatability.

PC quality management software

The instrument is equipped with powerful PC data management software, which supports online measurement, can print test reports, transmit data, and achieve more functional extensions.

Quality control through GQC6 software

- Measure your product online and transfer the results to the GQC6 software on your computer. Immediately, you will receive a professional QC report, which includes data sheets and curve graphs.
- Establish product specifications in the standard management module, ensuring that the products are qualified and non compliant The tolerance of the grid will be displayed in your QC report.
- This software is an ideal choice for online measurement of multiple products.
- The measurement sample record can be renamed, searched, and the sample identification is clear at a glance. Exporting, printing, and organizing are convenient and fast.
- Flexible data analysis can be performed on data identified by multiple parameters within a specific time range. Monitor the stability of your production process by using trend report charts and SPC charts.



Technical Parameter

Model	YG45 high-precision glossmeter
Measuring angles	45°
Measurement aperture (mm)	45° ： 10x13
Measurement range	45° ： 0-800GU
Accuracy	0-100GU：0. 1GU 100-800GU：1GU
Measurement mode	Basic mode, Statistical mode, Continuous mode, Quality management mode
Measurement time	0.5S
Repetitive accuracy	0~100GU:±0.5GU； 100~800GU:±0.5%GU；
Accuracy	Meet the requirements of JJG 696 working glossmeter
Automatic shutdown time	30-120S
Long term calibration	Capable of automatic inspection and calibration of standard boards/manual calibration
Language	Simplified Chinese, English, Traditional Chinese
Storage	35000 (15000 in basic and continuous modes, 10000 in quality management mode, and 10000 in statistical mode)
Display screen	2.3 inch Black and white display screen
Size	160X52X84mm
Weight	Approximately 300g (including calibration box and battery)
Power supply	One No. 5 battery (AA alkaline battery or nickel hydrogen rechargeable battery), capable of testing more than 10000 times;
Interface	USB
PC software	GQC6 quality management software, printing quality inspection reports, and more functional extensions
Standard accessories	USB data cable, instruction manual GQC6 quality management software (downloaded from official website or provided by after-sales service), calibration board
Optional accessories	Mini printer, Bluetooth adapter
Attention	Technical parameters are for reference only, subject to actual sales of products

Standard configuration:：

Gloss Meter
Base With Calibration Plate
Certificate Of Conformity
Usb Transmission Cable
Operation Manual
Warranty Card
Wiping Cloth

GQC6 Installation Requirements：

System: Windows
CPU: Core 2 Duo, 2.2 GHz, i3 more than
Memory: 4 GB RAM, 8 GB recommendation
Storage: At least 300MB
Display: 1280 x 1024 or higher
Interface: USB port
Download method: official website download

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