KAN XIANG

WGG-60 portable glossiness meter
Instruction manual

Shanghai Kanxiang Instrument Equipment Co., Ltd

1、 Preface

WGG-60 portable glossmeter is developed and produced by Shanghai Kanxiang Instrument Equipment Co., Ltd using international advanced light source. It has the advantages of low power consumption, accurate measurement, good stability, high reliability, convenient operation and no need to adjust zero.

WGG-60 portable glossiness meter is a fixed angle glossiness measuring instrument. It is used to measure the mirror gloss of paint, paint, plastic, paper, enamel, stone facing, wood furniture, aluminum and aluminum alloy.

2、 Technical specifications：

1. Gloss parameter (gloss unit)

Measurement range	graduation value	Stability	Indication error
0－199.9	0.1	±0.4	±1.2

2. Low power consumption of the instrument: it can be operated by using a No. 5 battery.

3. Zero error: with automatic zero stabilization function, no need to adjust zero.

4. Service conditions: ambient temperature 0-40 ℃, relative humidity no more than 70%.

5. External dimension of the instrument: 115mm X 32mm X 66mm (L × w × h)

6. Instrument weight: 300g

3、 Applicable standards：

International standards:

ISO 2813 paints and varnishes - Determination of specular gloss of paint films without metallic pigments.

ASTM d1455 Standard Test Method for 60 ° specular gloss of latex floor finishes.

ASTM D523 Standard Test Method for specular gloss.

ASTM d2457 Standard Test Method for specular gloss of plastic films.

JIS z8741 determination method of specular gloss.

Domestic standards:

GB 9754 paints and varnishes - Determination of specular gloss of paint films without metallic pigments

GB 8807 test method for specular gloss of plastics.

4、 Scope of application:

WGG glossiness meter is the most general glossiness measuring instrument, which is widely used. Suitable for all paint, coating, coating industry. For example: measure the glossiness of spraying surface of automobile, furniture, machine tool, household appliances, etc. And for plastic products, packaging decoration, all interior decoration, etc.

5、 How to use the instrument:

1. Warm up

Press the power switch of the instrument to preheat the instrument for 2 minutes.

2. Calibration

Place the measuring window of the instrument on the black standard plate, and the instrument must be placed in the positioning frame. The center mark of the instrument shell is positioned at the center of the positioning frame, and is close to the front edge of the positioning frame. Observe the LCD window, after the data is stable, adjust the data to the data calibrated by the random standard board through the "calibration" knob.

3. Linearity correction

The low gloss standard plate equipped with the instrument is for users to test the linearity of the instrument. The calibrated instrument is placed on the low gloss standard plate (the method is the same as 2. Calibration). The difference between the display data and the low gloss standard value should be within ± 1.2 gloss unit.

Note: when the test data of high gloss is within ± 1.2 gloss unit of standard value difference, there may be stains on the surface of high gloss standard plate, which can be wiped with lens paper dipped with a small amount of alcohol, and dry rubbing is prohibited. After cooling and drying, calibrate again, and then do linear correction.

When the test data of low gloss is within ± 1.2 gloss unit of standard value difference, there may be stains on the surface of low gloss standard plate, which can be wiped off by rubber and linear correction can be made again.

When the ambient temperature is too high or the standard plate is damp, the linearity of the instrument will be out of tolerance. If the above factors are eliminated, the low gloss test data still exceeds the standard value ± 1.2, contact our company for solution.

4. Sample measurement

After calibration, calibration and other steps, the instrument can be used for sample measurement. Place the instrument window on the sample plate to be tested, and the instrument display data is the glossiness value of the sample plate.

6、 Precautions：

1. Calibration shall be conducted every time the power is turned on. In a long time measurement, users are advised to recalibrate every 30 minutes.

2. The two standard plates used for instrument calibration should be kept clean and do not touch the surface with fingers. Avoid friction between the working surface of the instrument and the standard plate. When the standard plate is not in use, it should be placed in a dry place.

3. The lens of the instrument should be kept clean, and the dust on the lens can be blown with a blowing balloon. If the lens is stained, wipe it with lens paper.

4. The instrument should be returned to our company for testing regularly every year.

5. The warranty is one year after the instrument is sold.