



校准证书

CALIBRATION CERTIFICATE

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Certificate No.

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客户名称 广东三恩时科技有限公司
Name of the Customer

联络信息 广州市增城区新城大道400号智能制造中心33号楼802
Contact Information

计量器具名称 光泽度计
Description

型号/规格 YG47
Model/Type

制造厂 广东三恩时智能科技有限公司
Manufacturer

出厂编号 GYD00185
Serial No.

设备管理编号 ----
Equipment No.

接收日期 2025 年 05 月 30 日
Receipt on Y M D

结论 见校准结果
Conclusion Shown in the results of calibration

校准日期 2025 年 06 月 05 日
Calibration on Y M D

发布日期 2025 年 06 月 05 日
Issue on Y M D

批准 卢德润
Authorized by

核 验 卢德润
Reviewed by

校 准 刘炜彰
Calibrated by

证书专用章
Stamp



扫一扫查真伪



说明

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DIRECTIONS

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1. 本中心是国家市场监督管理总局在华南地区设立的国家法定计量检定机构, 本中心的质量管理体系符合 ISO/IEC 17025:2017 标准的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation. The quality system is in accordance with ISO/IEC 17025:2017.

2. 本中心所出具的数据均可溯源至国家计量基准和/或国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and/or International System of Units (SI).

3. 校准地点、环境条件:

Location and environmental conditions of the calibration:

地点 光参量实验室

Location (Optical Parameters Lab.)

温度 25 °C

Temperature

相对湿度 55 %

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJG 696-2015 镜向光泽度计和光泽度板检定规程 V.R. of Specular Gloss Meters and Gloss Plates

5. 本次校准所使用的主要计量标准器具:

Major standards of measurement used in the calibration:

设备名称/型号规格/测量范围 Name of Equipment /Model/Type/Range	编号 Serial No.	证书号/有效期/溯源单位 Certificate No./Due Date /Traceability to	计量特性 Metrological Characteristic
光泽度板 Gloss Plates /GS-C/GS-G/(0.0~120.0) 光泽 单位	237A15/24/41/8 7/98	2024F48-10-5531255002 /2025-10-13 /上海计量院	标准级 Standard
光泽度计 Gloss Meter /4567/(0~120) GU	1421046	2024F48-20-5531245001 /2025-10-13 /上海计量院	标准级 Standard
光泽度计 Gloss Meter /4568/(0.0~100.0)	2007964	2024F48-20-5351613001 /2025-07-02 /上海计量院	标准级 Standard

注: 1. 本证书校准结果只与受校准仪器有关。The results relate only to the items calibrated.

Note: 2. 未经本机构书面批准, 不得部分复制此证书。This certificate shall not be reproduced except in full, without the written approval of our laboratory.

3. “客户名称”、“联络信息”由委托方提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注, 委托方对上面内容如有异议, 须在收到证书后二十个工作日内提出。

The information **Name of the Customer** and **Contact Information** are provided by client, and the **Manufacturer, Model/Type, Serial No. and Equipment No.** are marked on the items. Client shall submit any objection within 20 working days after receiving the certificate for the information above.



校准结果

RESULTS OF CALIBRATION

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1. 外观: 符合要求。

Appearance: Pass.

2. 测量基准平面的平整性: 符合要求。

Flatness of the measured reference plane: Pass.

3. 分度值: 0.1 光泽单位(gloss unit).

Resolution:

4. 稳定性:

Stability:

45°

+0.1 光泽单位(gloss unit).

75°

0.0 光泽单位(gloss unit).

5. 零值误差:

Error of zero:

45°

0.0 光泽单位(gloss unit).

75°

0.0 光泽单位(gloss unit).

6. 示值误差: 见表1.

Error of indication: shown in table 1.

表 1

Table 1

角度 Angle	仪器示值 (光泽单位) Indication Value (gloss unit)	标准值 (光泽单位) Nominal Value (gloss unit)	误差 (光泽单位) Error (gloss unit)
45°	57.8	58.8	-1.0
	33.5	34.7	-1.2
	22.2	22.1	+0.1
75°	98.5	98.5	0.0
	76.5	75.0	+1.5
	51.2	53.2	-2.0

7. 光泽度板测量: 见表2.

Standard board: shown in table 2.

表2

Table 2

编号 No.	角度 Angel	光泽度值 Gloss value	对应标准代号 standard code
GYD00185 (黑板)	45°	54.5	ASTM-C346
	75°	97.0	ISO8254-2



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说明:

Note:

1. 结论: 以上校准结果符合JJG 696-2015 (准确度: 二级) 技术要求。

Conclusion: The data of instrument calibrated above comply with the technical characteristics in JJG 696-2015 (for accuracy Garde 2).

校准结果符合性判定依据JJF1094-2002《测量仪器特性评定》之5.3.1和JJG 696-2015《镜向光泽度计和光泽度板检定规程》。

Decision rule of conformity is in JJF1094-2002 "Evaluation of the Characteristics of Measuring Instruments" (5.3.1) and JJG 696-2015 "V.R. of Specular Gloss Meters and Gloss Plates".

2. 光泽度示值误差测量结果的扩展不确定度: $U = 1.2$ 光泽单位, $k = 2$ 。

光泽度板测量结果的扩展不确定度: $U = 1.8$ 光泽单位, $k = 2$ 。

Expanded uncertainty: gloss meter: $U = 1.2$ gloss unit, $k = 2$; gloss board: $U = 1.8$ gloss unit, $k = 2$.

3. 按规程规定:

According to the verification regulation:

一级光泽度计: 稳定度不超过 ± 0.4 光泽单位, 零值误差不超过 ± 0.2 光泽单位, 示值误差不超过 ± 1.5 光泽单位, 分度值为0.1。

Grade 1 glossmeter:

Stabilization not exceed: 0.4 gloss unit

Error of zero not exceed: 0.2 gloss unit

Error of indication not exceed: ± 1.5 gloss unit.

Resolution: 0.1 gloss unit.

二级光泽度计:

分度值为0.1光泽单位时, 稳定度不超过 ± 1.0 光泽单位, 零值误差不超过 ± 1.0 光泽单位, 示值误差不超过 ± 3.0 光泽单位。

分度值为1光泽单位时, 稳定度不超过 ± 1 光泽单位, 零值误差不超过 ± 1 光泽单位, 示值误差不超过 ± 3 光泽单位。

Grade 2 glossmeter:

Resolution: 0.1 gloss unit:

Stabilization not exceed: ± 1.0 gloss unit

Error of zero not exceed: ± 1.0 gloss unit

Error of indication not exceed: ± 3.0 gloss unit.

Resolution: 1 gloss unit:

Stabilization not exceed: ± 1 gloss unit

Error of zero not exceed: ± 1 gloss unit

Error of indication not exceed: ± 3 gloss unit.

4. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定, 由合成标准不确定度乘以包含概率约为95%时对应的包含因子 k 得到。



校准结果 RESULTS OF CALIBRATION

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The expanded uncertainty given in this certificate is evaluated according to JJF 1059.1-2012

“Evaluation and Expression of Uncertainty in Measurement”, which is obtained by multiplying the combined standard uncertainty by the coverage factor k corresponding to the coverage probability of about 95%.

5. 该仪器的溯源日期为本证书的“校准日期”，由于复校时间间隔的长短是由仪器的使用情况、使用者、仪器本身质量等诸因素所决定的，因此，送校单位可根据实际使用情况自主决定复校时间间隔。更换重要部件、维修或对仪器性能有怀疑时，应及时校准。

The traceability date of this instrument is the "Calibration Date" on this certificate, Since the calibration interval is determined by the use of the instrument, operation of the user, the quality of the instrument itself and other factors, the recalibration date can be decided by the user according to the actual situation. In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.

6. 校准项目依据客户要求。

The calibration items are referred the requirements of customer.