



# 校准证书

## CALIBRATION CERTIFICATE

证书编号 CYQ202113493  
Certificate No.

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委托方 优利德科技(中国)股份有限公司  
Client

委托方联络信息 东莞市松山湖高新技术产业开发区工业北一路6号  
Contact Information

计量器具名称 激光扫平仪  
Description

型号/规格 LM581R  
Model/Type

制造厂 UNI-T  
Manufacturer

出厂编号 633652  
Serial No.

设备管理编号  
Equipment No.

接收日期 2021 年 06 月 04 日  
Date of Receipt Y M D

结果 见校准结果  
Results Shown in the results of calibration

校准日期 2021 年 06 月 08 日  
Date of Calibration Y M D

批准人 张勇  
Approved Signatory

核 验 何海坚 何海坚  
Reviewed by

校 准 孙彦锋 孙彦锋  
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:

Place and environmental conditions of the calibration:

地点 本中心测绘仪器实验室

温度 (20.0±1.0) °C

相对湿度 (55±5) %

Place (Survey Instrument Lab.)

Temperature

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJF1166-2007 激光扫平仪校准规范 C.S. for Rotating Lasers

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 Name of Equipment /Model/Type	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
激光扫平误差光电检测仪 Verification Equipment of Rotating Lasers /ILT-1	715501	CYY202100382 /2022-04-24 /本中心	水平准线偏差允差: 3" MPE: 3"
水准标尺 Level Rod /5 m	自编001	CYQ202015626 /2021-08-06 /本中心	全长分划误差允差: ±3 mm MPE of divisional error of total length: ±3 mm

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. “委托方”、“委托方联络信息”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 Client 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.

4. 本次校准日期视为发布日期。The calibration date is the date of issue of the certificate.



## 校准结果 RESULTS OF CALIBRATION

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原始记录编号: 020210649  
Record No.

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- 1 扫平误差: 14.2"  
Error of rotating laser.
- 2 测量重复性: 9.5"  
Repeatability of measurement.
- 3 自动安平补偿器补偿误差: 8.8"  
Compensating error of automatic compensated.

### 说明

### Note

- 1 “扫平误差（角度）”示值误差测量结果的扩展不确定度:  $U=4.8$ ”

“Sweeping error (Angle)” indicates the extended uncertainty of error measurement result

包含因子  $k=2$

### Coverage factor

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。

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%.

- 2 由于复校时间间隔的长短由仪器使用情况、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情况自主决定复校时间间隔。建议不超过1年。更换重要部件、维修或对仪器性能有怀疑时, 应及时校准。

Since the calibration interval is depended on a number of factors, such as the use of the instrument, operation of the user, and the quality of the instrument itself, the next calibration date can be decided by the user according to the actual use. Next calibration for this instrument is proposed within 1 year. When replacing important parts, repairs, or doubts about the performance of the instrument, it should be calibrated in time.