华南国家计量测试中心
广东省计量科学研究院
SOUTH CHINA NATIONAL CENTER OF METROLOGY
GUANGDONG INSTITUTE OF METROLOGY

中国认可
国际互认
校准
CALIBRATION
CNAS L0730

校准证书

CALIBRATION CERTIFICATE

证书编号 Certificate No. CYQ202315071

委托方 Client	优利德科技(中国)股份有限公司
委托方联络信息 Contact Information	广东省东莞市松山湖园区工业北一路6号
计量器具名称 Description	手持式激光测距仪
型号/规格 Model/Type	LM60Mi
制造厂 Manufacturer	UNI-T
出厂编号 Serial No.	自编#6
设备管理编号 Equipment No.	----
接收日期 Date of Receipt	2023 年 08 月 03 日 (Y M D)
结果 Results	符合 JJG 966-2010(2级)技术要求 Comply with JJG966-2010(for Grade 2)
校准日期 Date of Calibration	2023 年 08 月 29 日 (Y M D)

批 准 人 Approved Signatory 张勇

核 验 Reviewed by 何海坚

校 准 Calibrated by 杨尚维

证书专用章 Stamp

扫一扫查真伪

本中心地址：中国广州市广园中路松柏东街30号 邮政编码：510405
电话：(8620)86594172 传真：(8620)86590743 投诉电话：(8620)36611242 E-mail：scm@scm.com.cn
Add: No.30, Songbai East Street, Guangyuan Middle Road, Guangzhou, Guangdong, China
Post Code: 510405 Tel: (8620)86594172 Fax: (8620)86590743 Complaint Tel: (8620)36611242
证书真伪查询：www.scm.com.cn；cert.scm.com.cn Certificate AuthenticityIdentify: www.scm.com.cn; cert.scm.com.cn

说　明

证书编号 CYQ202315071
Certificate No.

DIRECTIONS

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 Place	本中心精密测量及光学仪器实验室	温度 Temperature	(20.0～20.4) ℃	相对湿度 R.H.	(50±5) %

4. 本次校准的技术依据：
Reference documents for the calibration:
JJG 966-2010 手持式激光测距仪检定规程　V.R. of Hand-held Laser Distance Meters

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
手持式激光测距仪室内检定设备 Indoor Verification Equipment of Hand-held Laser Distance Meters /SCSB/(6~105) m	201401	CJC202219171 /2023-11-06 /本中心	两平面间距离: U=0.020 mm (k=2) Distance between two parallel planes: U=0.020 mm (k=2)
标准钢卷尺 Standard Steel Tape /100 m/(0~100)m	190006	CJC202309133 /2024-06-01 /本中心	U=5μm+5x10^{-6} L, k=2

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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1	外观质量及各项功能: Appearance and functions:	符合要求 Pass	
2	测量重复性(标准偏差): Repeatability of measurement (experimental standard deviation)	0.0 mm	[MPE: 1.5 mm]
3	距离测量示值误差: Indication error of distance measurement	+4.0 mm	[MPE: $\pm(5.0\ \text{mm}+5\times10^{-5}D)$]

说明:
Note:

1 结果:被校准仪器校准结果符合JJG 966-2010(2级)全部后续项目技术要求。
Results: The data of instrument calibrated comply with the technical characteristics of all subsequent items in JJG 966-2010 (for Grade 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 966-2010。
Decision rules of conformity are JJF1094-2002 *Evaluation of the Characteristics of Measuring Instruments* (5.3.1) and JJG 966-2010.

2 检测距离:(0~56) m
Detect distance
最大误差出现在 5.0 m 处。
Maximum indication error occurs at 5.0 m.

3 "距离测量示值误差"测量结果的扩展不确定度: $U=$ 1.4 mm + 1.4 $\times10^{-5}D$
Expanded uncertainty of measurement for "indication error of distance measurement"
包含因子Coverage factor $k=2$
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%.

4 按照所依据技术文件的规定,建议复校间隔不超过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。

According to the demand of reference document, next calibration is proposed within 1year. In case of replacement of important parts, maintenance or doubt on the performance of the instrument, it shall be calibrated in time.