

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

校准证书

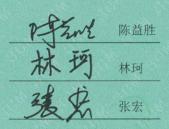
CALIBRATION CERTIFICATE

证书编号 WWD202502082 Certificate No.

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客户名称 Name of the Custom	的人们信仰投入中国)放 er	(切有	NK 公 E				
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	红光笔(光源)						
型号/规格 Model/Type	UT691A-30						
制造厂 Manufacturer	UNI-T					1	
出厂编号 Serial No.	1	设备管理编号 Equipment No.					
接收日期 Receipt on	20	25 年 Y		月 M	25	日 D	
结论 见校准结果 Conclusion Shown in the results of calibration							
校准日期 Calibration or		25 年 Y		月 M	02	日 D	
发布日期 Issue on	20	25 年 Y	E 07	月 M	03	日 D	

批 准 Authorized by 核 验 Reviewed by 校 准 Calibrated by



证书专用章



扫一扫查真伪

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华南国家计量测试中心 东省计量科学研究院

SOUTH CHINA NATIONAL CENTER OF METROLOGY GUANGDONG INSTITUTE OF METROLOGY

证书编号 WWD202502082 Certificate No.

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:

无线电室 (Radio Lab.) 地点

温度 (23~24) °C

证书号/有效期/溯源单位

Certificate No./Due Date

相对湿度

40 %

Location

Temperature

R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

IJG 958-2000 光传输用稳定光源检定规程 V.R. of Stabilized Laser Sources for Optical Transmit

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

光标准装置 Optical Standard Device

/8163B/81624B/-90dBm~+10dBm

光谱分析仪

Optical Spectrum Analyzer /MS9710C/(600~1750) nm 编号

Serial No.

MY48206739/DE4 GXgf2024-06137

1101209

/Traceability to /2025-09-24

/国家计量院

6200532787

WWD202403665 /2025-11-04

/本中心

计量特性

Metrological Characteristic

光功率MPE: ±0.09dB

MPE: ±0.09dB

波长: U=0.06 nm .功 率: U=0.2dB(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. "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.



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校准结果 RESULTS OF CALIBRATION

证书编号 WWD202502082 Certificate No. 原始记录号 020252082 Record No.

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1 光源输出功率 (见表1)

Laser source output power (Shown in table 1)

表1 (table 1)

波长

K

Wavelength 650 nm

实测值

Actual Value

33.8 mW

2 光源中心波长 (见表2)

Laser source wavelength (Shown in table 2)

表2 (table 2)

波长标称值

Nominal Value

(630~670) nm

实测值

Actual Value

667.7 nm

说明:

Note:

1 测量结果的扩展不确定度:

Expanded uncertainty of measurement:

功率:U=0.2 dB

波长:U_{rel}=5×10⁻⁴

包含因子: k=2

Coverage Factor

Power

Wavelength

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 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 re-calibration 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.

3 校准活动中对测量结果有影响的条件:

Conditions under which the calibrations were made that have an influence on the measurement results:

温度:

23 ℃ ~ 24 ℃

相对湿度:

40%

Temperature

R.H.