



校准证书

Calibration Certificate

证书编号 GXfs2019-3029
Certificate No.

客户名称 Client	深圳市三恩时科技有限公司 Shenzhen ThreeNH Technoiogy Co.,Ltd
器具名称 Instrument	测色色差计 Colorimeter
型号/规格 Type/Model	YS4560
出厂编号 Serial No.	450900(白板编号: 400211) 450900(white plate: No.400211)
生产厂商 Manufacturer	深圳市三恩时科技有限公司 Shenzhen ThreeNH Technoiogy Co.,Ltd
客户地址 Client Address	深圳市南山区西丽南岗第二工业园 8 栋四楼 4/F, Building 8, Nangang Second Industry Zone, Xili, Nanshan District,Shenzhen, China
校准日期 Date of Calibration	2019-09-09
接收日期 Date of Receiving	2019-08-28

批准人:
Approved by

陈东



地址: 中国 北京 北三环东路 18 号
Address: No.18 Bei San Huan Dong Lu,Beijing,P.R.China
电话: +86-10-64525569/74
Tel
网址: <http://www.nim.ac.cn>
Website

邮编: 100029
Post Code
传真: +86-10-64271948
Fax
电子邮箱: kehufuwu@nim.ac.cn
Email

中国计量科学研究院



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中国计量科学研究院 (NIM) 是国家最高的计量科学研究中心和国家级法定计量技术机构。1999 年授权签署了国际计量委员会 (CIPM) 《国家计量基(标)准和国家计量院签发的校准与测量证书互认协议》(CIPM MRA)。The National Institute of Metrology (NIM) is China's national metrology institute (NMI) and a state-level legal metrology institute. NIM is China's signatory to the Mutual Recognition of National Measurement Standards and of Calibration and Measurement Certificates Issued by National Metrology Institutes (CIPM MRA) which is arranged by the International Committee of Weights and Measures (CIPM).

质量管理体系符合 ISO/IEC17025 标准, 通过中国合格评定国家认可委员会 (CNAS) 和亚太计量规划组织 (APMP) 联合评审的校准和测量能力 (CMCs) 在国际计量局 (BIPM) 关键比对数据库中公布。NIM's quality management system meets requirements of the ISO/IEC 17025. Its Calibration and Measurement Capabilities (CMCs) that are peer reviewed both by China National Accreditation Service for Conformity Assessment (CNAS) and the Asia Pacific Metrology Programme (APMP) are published in the International Bureau of Weights and Measures (BIPM) Key Comparison Database (KCDB).

2011 年, NIM 和 CNAS 就认可领域的技术评价活动签署了谅解备忘录, 承认 NIM 的计量支撑作用和出具的校准/检测结果的溯源效力。NIM and CNAS signed a Memorandum of Understanding (MOU) for Recognition of Technical Assessment in Laboratory Accreditation Field in 2011, in which CNAS recognizing the technical supporting role of NIM in laboratory accreditation and the traceability of NIM's calibration / test results.

校准结果不确定度的评估和表述均符合 JJF1059 系列标准的要求。The evaluation and expression of uncertainty of the calibration results are in line with the requirements of JJF1059 series standards.

校准所依据的技术文件 (代号、名称) Reference documents (Code,Name)

参照 JJG595-2002 测色色差计检定规程

Refer to JJG595-2002 Verification regulation of colorimeters and color difference meters

校准环境条件及地点 Calibration place and environment

温度 Temperature: (23.7±1.0) °C 地点 Location: Optics building, Room 106

湿度 Humidity: (58±2) %RH 其它 Others: /

校准使用的计量基(标)准装置(含标准物质)/主要仪器

Reference Standards (Including the Reference Material) / Instruments used

名称 Name	测量范围 Measurement Range	不确定度/ 准确度等级 Uncertainty/Accuracy	证书编号 Certificate No.	证书有效期至 Due Date (YYYY-MM-DD)
标准色板 Color standards	380nm~780nm	Y: $U=2.0 (k=2)$ x: $U=0.007 (k=2)$ y: $U=0.004 (k=2)$	GXfs2019-2104	2020-06-27

2019-jz



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校准结果 Calibration Results

表 1 (Table 1)

色 度 准 确 度 Color Accuracy									
标准色板 Color standards	标准值 standard value			示值 measurement value			示值误差 error		
	Y_0	x_0	y_0	Y	x	y	ΔY	Δx	Δy
白色 white	83.17	0.3198	0.3386	82.79	0.3200	0.3388	-0.38	0.0002	0.0002
红色 red	9.68	0.6243	0.3301	10.70	0.6300	0.3371	1.02	0.0057	0.0070
绿色 green	13.26	0.2802	0.4644	13.02	0.2747	0.4633	-0.24	-0.0055	-0.0011
蓝色 blue	12.04	0.1651	0.2610	11.49	0.1626	0.2529	-0.55	-0.0025	-0.0081
黄色 yellow	59.61	0.4594	0.4639	60.62	0.4567	0.4650	1.01	-0.0027	0.0011
外观检查: 合格 Visual inspection: qualified		测量条件: 标准照明体 D65, 10° 标准色度观察者; 几何条件: 45/0; Measurement conditions: standard illuminat D65, 10° standard colorimetric observer; geometric condition: 45/0.							

说明: ΔY 测量结果不确定度: $U=2.3 (k=2)$;

Remarks: The uncertainty of the measurement result ΔY : $U=2.3 (k=2)$.

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表 2 (Table 2)

复现性 Reproducibility			重复性 Repeatability			稳定性 stability
$\Delta(Y)$	$\Delta(x)$	$\Delta(y)$	$s(Y)$	$s(x)$	$s(y)$	ΔY
0.01	0.0000	0.0000	0.01	0.0000	0.0000	0.05

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建议 Suggestion:

根据客户要求和校准文件的规定，通常情况下 12 个月校准一次。

According to the client or the calibration documents, the recommended calibration cycle is 12 months.

声明 Statement:

1. 我院仅对加盖“中国计量科学研究院校准专用章”的完整证书负责。

NIM is ONLY responsible for the complete certificate with the calibration stamp of NIM.

2. 本证书的校准结果仅对所校准的计量器具有效。

The certificate is ONLY valid for the calibrated instrument.

3. 本证书用中英文两种语言表达，准确含义以中文为准。

The certificate is reported in both English and Chinese, with the Chinese version as standard.

校准员:

马煜

Calibrated by

核验员:

孙若端

Checked by