



# 校准证书

## CALIBRATION CERTIFICATE

证书编号 RGW202203599  
Certificate No.

第 1 页, 共 5 页  
Page of

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	红外热像仪		
型号/规格 Model/Type	UTi384H		
制造厂 Manufacturer	UNI-T		
出厂编号 Serial No.	----	设备管理编号 Equipment No.	048832
接收日期 Date of Receipt	2022 年 07 月 06 日 Y M D		
结果 Results	见校准结果 Shown in the results of calibration		
校准日期 Date of Calibration	2022 年 07 月 11 日 Y M D		

批准人 Approved Signatory	<u>徐标</u>	徐标
核 验 Reviewed by	<u>黄冲</u>	黄冲
校 准 Calibrated by	<u>胡月</u>	胡月

证书专用章  
Stamp



扫一扫查真伪



# 说 明

证书编号 RGW202203599  
Certificate No.

## DIRECTIONS

第 2 页, 共 5 页  
Page of

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 本中心热工实验室 Thermodynamics Lab. 温度 (22±1) °C 相对湿度 (60±10) %  
Place Temperature R.H.

4. 本次校准的技术依据:

Reference documents for the calibration:

JJF1187-2008 热像仪校准规范 C. S. for Thermal Imagers

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
标准辐射温度计 Standard radiation thermometer /TRT IV.82	3275	RGfs2021-11410 /2022-09-16 /国家计量院	$U=(0.3\sim 1.6)^{\circ}\text{C}$ , $k=2$
黑体辐射源 Blackbody Radiator Source /R-50A	R-010002	RGW202105938 /2022-11-29 /本中心	$U=0.4^{\circ}\text{C}$ , $k=2$
黑体辐射源 Blackbody Radiator Source /4181	B8B871	RGfs2022-00403 /2023-05-05 /国家计量院	$U=(0.5\sim 2.9)^{\circ}\text{C}$ , $k=2$
黑体辐射源 Blackbody Radiator Source /R-700	R-040001	RGW202105939 /2022-11-28 /本中心	$U=0.4^{\circ}\text{C}$ , $k=2$

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注: 1. 本证书(报告)结果只适用于收到的样品。The results in the report apply to the sample as received.

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.



# 说 明

证书编号 RGW202203599  
Certificate No.

## DIRECTIONS

第 3 页, 共 5 页  
Page of

(续5)

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
黑体辐射源 Blackbody Radiator Source /4180	A8C122	RGfs2022-00402 /2023-04-28 /国家计量院	$U=0.3^{\circ}\text{C}\sim 1.1^{\circ}\text{C}, (k=2)$

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## 校准结果 RESULTS OF CALIBRATION

证书编号 RGW202203599  
Certificate No.

原始记录号 RGW202203599  
Record No.

第 4 页, 共 5 页  
Page of

一、外观: 符合要求

Apparent Inspection: Pass

二、校准数据见表1:

Refer to Calibration Data in Table 1:

表1  
Table 1

单位: °C  
Unit: °C

测量范围 Range	标准温度值 Standard Value	示值误差 Error	扩展不确定度 Expanded Uncertainty $U(k=2)$
----	-20.0	-1.9	1.8
	-10.0	-1.5	1.5
	0.0	-1.9	1.2
	20.0	-1.7	0.8
	75.0	-0.4	0.8
	100.0	-1.7	1.0
	150.0	0.0	1.5
	350.0	-2.8	2.3
	550.0	-6.9	3.2
	650.0	-12.1	3.5

注: 标准辐射温度计发射率设置为 $\epsilon=0.95$ , 工作波段为  $(8\sim 14)\mu\text{m}$ ;

The emissivity of standard transfer pyrometer was set 0.95, and the wave length is  $(8\sim 14)\mu\text{m}$ .

说明:

Note:

1、本证书中给出的扩展不确定度依据JJF 1059.1-2012《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%.





## 校准结果 RESULTS OF CALIBRATION

证书编号 RGW202203599  
Certificate No.

原始记录号 RGW202203599  
Record No.

第 5 页, 共 5 页  
Page of

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- 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。建议不超过壹年。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 one year. When replacing important parts, repairs, or doubts about the performance of the instrument, it should be calibrated in time.

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