

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
12	1庄	KIL	77

CALIBRATION CERTIFICATE

证书编号 F Certificate No.	RGW202410652			第 Page		, ≠ of	t 3	页
客户名称 Name of the Custon	优利德科技(中	国)股份有	限公	司				
联络信息 Contact Informatior	广东省东莞市松1	山湖园区工	.1k=t	:一路	6号			
计量器具名称 Description	红外热像仪		15	<u>.</u>				
型号/规格 Model/Type	UTi160S							
制造厂 Manufacturer	UNI-T			S.C.S.				
出厂编号 Serial No.	C223175285		设备管理编号 Equipment No.					
接收日期 Receipt on		2024	年 Y	05		16		2 2 8
	校准结果 own in the results of ca	libration						
校准日期 Calibration o	n	2024	年 Y	05	月 M	20	日 D	
发布日期 Issue on		2024	年 Y	05	月 M	21	日 D	
批 准 Authorized by	ないなの	ž						
核验 Reviewed by _	太治疗 - 为法		证书专用章 Stamp					
校 准 Calibrated by _	胡月日期月]						

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

8240516036 1



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





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/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
标准辐射温度计 Standard radiation thermometer /TRT IV.82/(-50~+1000)℃	3275	RGfs2023-01161 /2024-10-12 /国家计量院	$U = (0.3 - 1.6)^{\circ} C, k = 2$
黑体辐射源 Blackbody Radiator Source /4181/(50~500)℃	C38819	RGW202305170 /2024-12-18 /本中心	$U=(0.4\sim 1.4)$ °C, $k=2$
黑体辐射源 Blackbody Radiator Source /R-50A/(-50~50)℃	R-010002	RGW202304726 /2024-11-12 /本中心	<i>U</i> = (1.0~0.5) °C, <i>k</i> =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 "安户名称" "联络信息"由委托专提供 "制造厅" "刑导师校" "世界师校"

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.



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



国际互认 校准 CALIBRATION CNAS L0730

校准结果 RESULTS OF CALIBRATION

证书编号 RGW202410652 Certificate No. 原始记录号 RGW202410652 Record No.

第3页,共3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: ℃ Unit:℃
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)
	-10.0	-0.2	0.7
	0.0	-0.4	0.7
-20~+550	50.0	-0.7	0.6
-20 +350	150.0	-2.8	1.1
	200.0	-3.9	1.3
	350.0	-6.3	3.0

被检红外热像仪发射率为ε=0.95,工作波段为(8~14) μm;

The emissivity of thermal infrared imager was 0.95, and the wave length is (8 ${\sim}14)\mu m.$

说明: Note:

- 1 校准活动中对测量结果有影响的条件:温度: 23℃、湿度: 65%RH。
- Conditions under which the calibrations were made that have an influence on the measurement results:Temperature:23°C,Humidity:65%RH.
- 2 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%.

3 该仪器的溯源日期为本证书的"校准日期",按照所依据技术文件的规定,建议复校时间间隔 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。

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