



# 强制检定证书

## MANDATORY VERIFICATION CERTIFICATE

证书编号 YLZ202403115  
Certificate No.

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送检单位 连州市人民医院  
Client

送检单位地址 连州市洋湄路5号  
Add. of Client

计量器具名称 X射线计算机体层摄影设备  
Description

型号/规格 OPERA 64  
Model/Type

制造厂 康达洲际医疗器械有限公司  
Manufacturer

出厂编号 KC202152003  
Serial No.

设备管理编号  
Equipment No.

检定依据 JJG 961-2017 医用诊断螺旋计算机断层摄影装置 (CT) X射线辐射源检定规程  
Regulation

检定结论 合格  
Conclusion Qualified

检定日期 2024 年 02 月 28 日  
Date of Verification Y M D

依据检定规程, 被检仪器检定周期不超过 壹 年  
The verification period is within 1 year(s)

批准人 吴国光 吴国光  
Approved Signatory

核验员 李奇 李奇  
Reviewed by

检定员 陈上文 陈上文  
Verified by

检定专用章  
Stamp



扫一扫查真伪



## 说 明

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### 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, 计量授权证书号是: (国) 法计(2022) 01043号、(国) 法计(2022) 01032号。本中心质量管理体系符合JJF1069-2012《法定计量检定机构考核规范》的要求。

This laboratory is the National Legal Metrological Verification Institution in southern China set up by the State Administration for Market Regulation under authorization certificates No.(2022)01043 & (2022)01032. The quality system is in accordance with JJF1069-2012 Rules for the Examination of the Service of Legal Metrological Verification.

2. 本中心所出具的数据均可溯源至国家计量基准和国际单位制(SI)。

All data issued by this laboratory are traceable to national primary standards and International System of Units (SI).

3. 检定地点、环境条件:

Place and environmental conditions of the verification:

地点 委托方方舱CT

Place

温度 20.6 °C

Temperature

相对湿度 60 %

R.H.

4. 本次检定所使用的主要计量标准器具:

Major standards of measurement used in the verification:

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

模体  
Phantom  
/Catphan 500/分辨  
力: (1~20)Lp/cm

500718

DLj12023-12660  
/2025-09-19  
/国家计量院

空间分辨力测试模块误差:  
<0.05 mm, 低对比分辨力测  
试模块误差: <0.05 mm

X射线机多功能质量检测仪  
Dosimetric Instruments for  
X-Ray  
/B-Piranha657/(0.1~999.9)mGy

CB2-15040191+  
CTDI-0375

DLj12023-07072  
/2024-05-29  
/国家计量院

$U_{rel}=3.2\%$  ( $k=2$ )

注: 1. 本证书检定结果只与受检定仪器有关。The results relate only to the items verified.  
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. 本次检定日期视为发布日期。The verification date is the date of issue of the certificate.



检定结果  
RESULTS OF VERIFICATION

证书编号 YLZ202403115  
Certificate No.

原始记录号 YLZ202403115  
Record No.

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1. 检定结果见表1:

Results of Verification

表 1

项目 Items	标称值 Nominal Value	实测值 Measured Value	误差 Error	技术要求 Technical Requirements	
剂量指数 (CTDI) (Dose Index)	35.42 mGy	31.56 mGy	+12.2%	不超过 $\pm 20\%$	
均匀性 (Uniformity)	---	2.56 HU	---	$\leq 5$ HU	
噪声水平 (Noise Level)	---	0.35%	---	$\leq 0.35\%$	
CT值 (CT number)	空气(Air)	-1000 HU	-980.91 HU	---	$(-1000 \pm 30)$ HU
	水(Water)	0 HU	2.45 HU	---	$(0 \pm 4)$ HU
空间分辨力 (Spatial Resolution)	头部 (Cephalosome)	---	6 Lp/cm	---	$\geq 5$ Lp/cm
低对比分辨力 (Low Contrast Resolution)	1.0%	---	3 mm	---	$\leq 3$ mm
	0.3%	---	6 mm	---	$\leq 6$ mm

说明:

Note:

1. 测量结果的扩展不确定度: 剂量指数:  $U_{rel}=6\%$  ( $k=2$ )。

Expanded uncertainty of measurement results.

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 JJF1059.1-2012

"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%.