



NUCTECH e-Guard
RSD1000 Robot



NUCTECH e-Guard RSD1000 Robot
NUCTECH e-Guard RSD1000
电子保安机器人



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NUCTECH e-Guard RSD1000



The NUCTECH e-Guard RSD1000 Robot is a new mobile inspection equipment designed and manufactured independently by NUCTECH COMPANY LIMITED. The equipment innovatively integrates terahertz detection unit and other wide-bandwidth electromagnetic wave detection technology with the latest mobile robot technology. The innovative terahertz detection unit can carry out real-time and non-contact inspection of metal/non-metal weapons, smuggled cashes, IEDs, drugs carried by passengers and then make rapid analysis and identification of suspected substance with Raman spectrometer. The integrated wide-bandwidth electromagnetic wave detection technology can also carry out the real-time monitoring on carcinogenesis radiation, radiation, and low temperature prohibited biological products in the environment.

NUCTECH e-Guard RSD1000 电子保安机器人是同方威视技术股份有限公司自主研发和生产的新型移动查验装备。该装备创新性地将太赫兹人体安全检查技术及其他多种宽频谱电磁波探测技术与最新的智能移动机器人技术集成融合。其创新的太赫兹查验单元可实现对人体携带的金属 / 非金属武器、走私现金、爆炸物、毒品等进行实时非接触式探测，并通过拉曼光谱对可疑物质进行快速成分鉴定。同时，通过集成的宽频谱电磁波探测技术对环境的致癌辐射、放射性物质及低温生物制品等进行实时监测。

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TECHNICAL DATA 技术参数

Specifications 产品参数	
System Functions 系统功能	Detection Category: Metal/non-metal weapons, smuggled cashes, IEDs, drugs, etc. 人体检测：金属 / 非金属武器、走私现金、爆炸物、毒品等 Directively Carcinogenesis Radiation Weapon Monitor 致癌辐射武器探测仪 Radiation Monitor 放射性物质探测 Raman Spectrometer 拉曼成分分析仪 Low Temperature Material Detection 低温生物制品探测

Specifications 产品参数		Terahertz 太赫兹	
Frame Rate	成像速率	8 fps	8 帧 / 秒
Inspection Time	检查时间	Real time imaging	实时成像
Scanning Distance	扫描距离	3 to 7 m	3m-7m
Field of View	视场范围	0.85 m(W) × 1.87 m(H) @ 4 m	0.85 m(宽)×1.87 m(高) @ 4 m
Detection Ability	检测能力	Minimum metal plate size on stationary person of 4cm x 4cm at 4m	4m 处可检测静止人员携带最小金属片尺寸为 4cm x 4cm
Storage Time	存储时间	≥ 30 days	≥ 30 天



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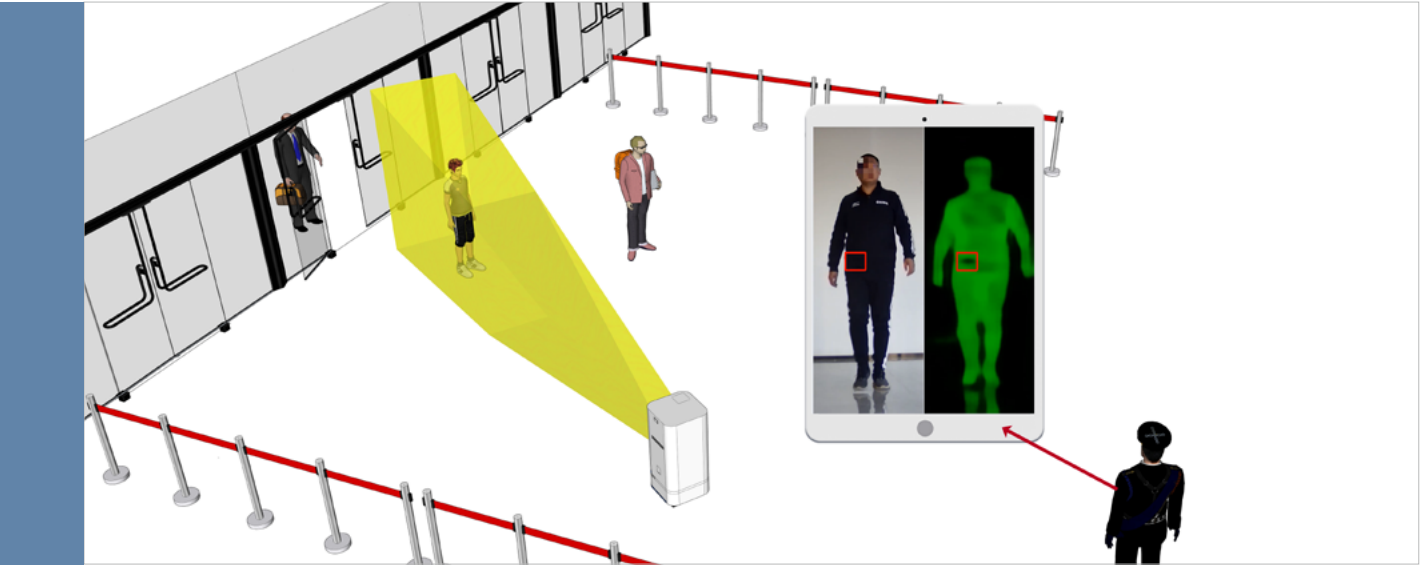
TECHNICAL DATA 技术参数

Specifications 产品参数		Directively Carcinogenesis Radiation Weapon Monitor 致癌辐射武器探测仪	
Electromagnetic Radiation Source	电磁辐射源	Transient broadband electromagnetic field	瞬态宽带电磁场
Band Width	带宽	1MHz-2GHz	1MHz-2GHz
Rising Edge	上升沿	175ps	175ps
Dynamic Range	动态范围	100V/m-100kV/m	100V/m-100kV/m
Radiation Monitor 放射性物质探测		Real-time monitoring nuclear materials 实时监测环境中的放射性物质	
Radiation Monitor	放射性物质监测	Real-time monitoring nuclear materials	实时监测环境中的放射性物质
Handhold Raman Spectrometer 手持拉曼		Rapid analysis and identification of toxic, explosive and biochemical dangerous liquid 毒爆生化危险液体成份分析快速识别	
Raman Spectrometer	拉曼光谱	Rapid analysis and identification of toxic, explosive and biochemical dangerous liquid	毒爆生化危险液体成份分析快速识别
Low Temperature Material 低温生物制品探测		Detection of low temperature prohibited biological products 可有效探测低温违禁生物制品	
Low Temperature Material Detection	低温物质探测	Detection of low temperature prohibited biological products	可有效探测低温违禁生物制品



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TECHNICAL DATA 技术参数

Specifications 产品参数			
Dimensions	尺寸	≤ 510mm × 510mm × 1040mm	≤ 510mm × 510mm × 1040mm
Weight	重量	≤ 85kg	≤ 85kg
Intelligent Chassis	智能底盘	Autonomous navigation, Obstacle avoidance	自主巡航、避障
Working Time	工作时间	Continuous autonomous working time ≥ 3h Fixed-point security working time ≥ 5 h	连续自主巡视时间：≥ 3 小时 定点安检运行时间：≥ 5 小时
User Interface	用户操作	Visual user interface; Support tablet and computer remote control	可视化的用户操作界面；支持平板、电脑等远程终端 操控



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Carcinogenesis Radiation
Weapon Monitor
致癌辐射武器探测仪



Terahertz
太赫兹



Radiation Monitor
放射性监测



Handheld Raman Spectrometer
手持拉曼



Low Temperature Material
低温物质探测



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NUCTECH e-Guard RSD1000 电子保安机器人



Autonomous Navigation,
Obstacle Avoidance
自主巡航、避障



Remote Control Walking
遥控行走



Intelligent Chassis
智能底盘