

HIGH-VOLTAGE & X-RAY SOURCE SOLUTIONS

Engineering platforms for process control, industrial
imaging and scientific analysis

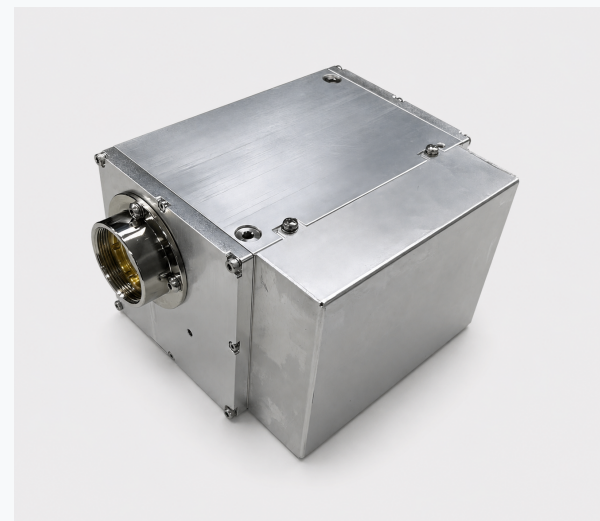
4 PRODUCT PLATFORMS / OEM INTEGRATION

PWELL Technology (Suzhou) Co., Ltd.

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SOFT X-RAY



HIGH-VOLTAGE



PORTABLE X-RAY



CONE-BEAM X-RAY

Engineering the core of X-ray systems

PWELL Technology (Suzhou) Co., Ltd. develops and manufactures X-ray sources and high-voltage power supplies. The company provides integrated platforms for security inspection, food inspection, electronics, industrial NDT, quality control and analytical instruments.

With R&D in Suzhou and production in Wuxi, the team combines high-voltage generation, filament drive, X-ray tube integration, control electronics and system safety. The founder contributes 20 years of engineering experience across security, industrial, medical and scientific-instrument X-ray systems.

RESPONSIBILITY FIRST. CUSTOMER FIRST.

CORE ENGINEERING

HV GENERATION

01

FILAMENT DRIVE

02

X-RAY TUBE

03

CONTROL & I/O

04

SAFETY INTEGRATION

05

MARKETS

Industrial NDT & CT

FPD / OLED / Semiconductor

Security & Food Inspection

**Scientific & Analytical
Instruments**

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Suzhou Industrial Park

WUXI PRODUCTION | 2F, Building 3, No. 20 Jinma Road, Xinwu
District, Wuxi

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Four platforms. One integration mindset.

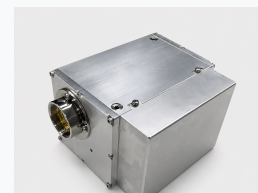


PW-15H

SOFT X-RAY IONIZATION

15 kV | 1 controller / 4 heads

FPD, OLED and semiconductor static control



PW100X500

OEM HIGH-VOLTAGE

20-100 kV | up to 500 W

XRF, industrial NDT and embedded X-ray systems



PW160BP128P

PORTABLE X-RAY

40-160 kV | 128 W

Security, pipeline and field inspection



PW-BP SERIES

LIGHT CONE-BEAM X-RAY

Configuration shown: PW120BP

Industrial CT, food and new-energy inspection

Five application environments



SEMICONDUCTOR

Cleanroom handling, lithography and process-tool interfaces



FPD / OLED

Panel transfer, exposure, deposition and inspection equipment



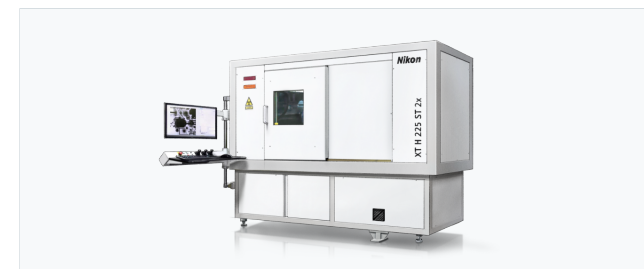
XRF ANALYSIS

Compact high-voltage generation for analytical X-ray instruments



PORTABLE FIELD NDT

Battery-powered radiography for pipeline and weld inspection



INDUSTRIAL CT

Integrated X-ray platforms for non-destructive 3D inspection

Public application imagery: ASML; Canon Tokki; University of Ljubljana; DÜRR NDT; Nikon. Equipment shown provides application context and does not imply endorsement.

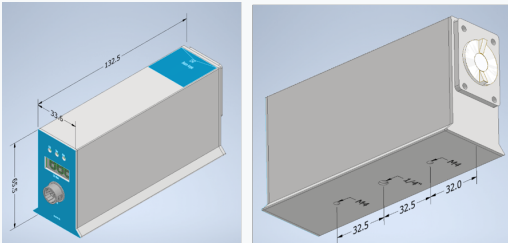
PW-15H multi-head soft X-ray ionization system



Tube voltage	Control
15 kV	RS-485
Irradiation	Weight
150 deg	0.6 kg
Input	Connector
24 VDC	HR10A-10R-12P
Max. power	Head size
20 W	132.5 x 33.6 x 65.5 mm

- FPD
- OLED
- SEMICONDUCTOR

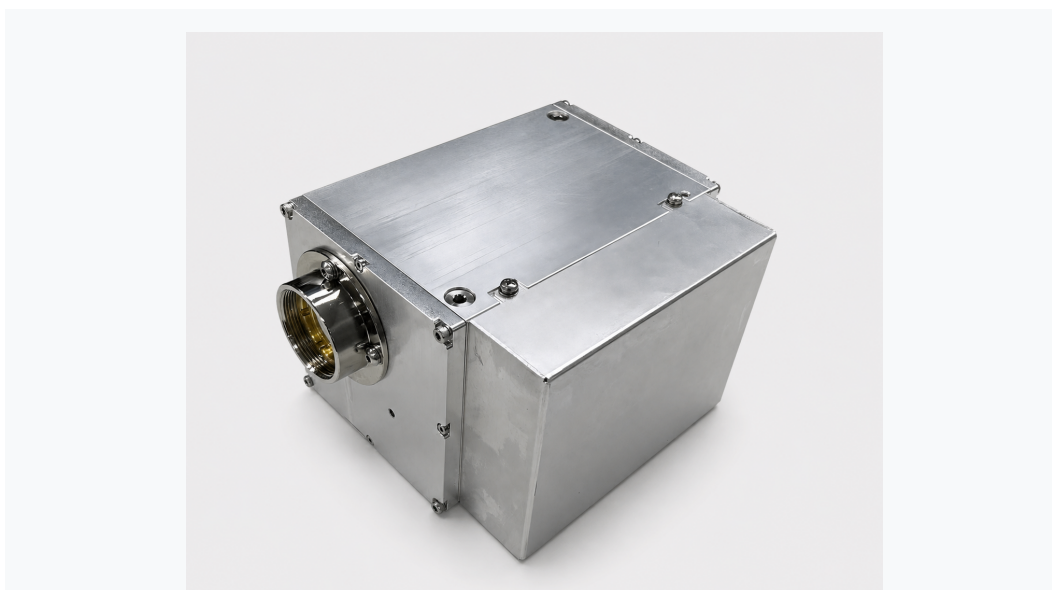
- Soft X-ray photoionization for wide-area charge neutralization
- Compact heads support transfer, inspection, bonding and clean-exit zones
- Channel-oriented maintenance and operating-hour management



Cable connects to the turquoise HRS/LED control end. The opposite circular window faces the process target.

10 kV Bar platform: product roadmap; formal specifications are under development.

PW100X500 OEM high-voltage generator



X-RAY TUBE INTERFACE SIDE

Input	kV / mA regulation
+448 VDC +/-4 V	<0.1%
Output voltage	Ripple
20-100 kV	<1%
Output current	Cooling
0.1-7 mA	External air
Max. power	Weight
500 W	4.8 kg

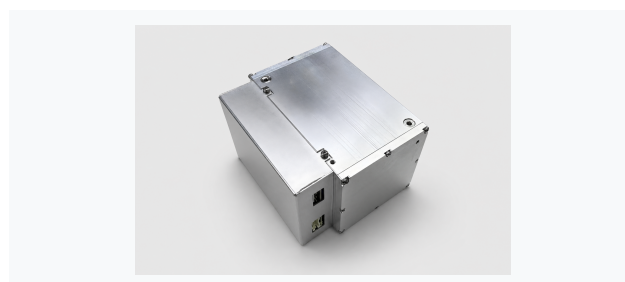
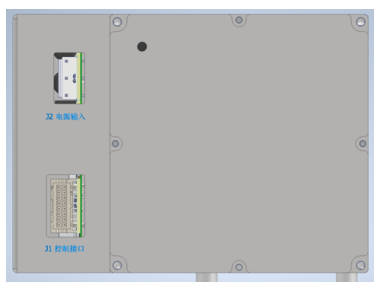
XRF

INDUSTRIAL NDT

OEM X-RAY

- Integrated high-voltage, filament and control circuits
- RS-232 digital setting plus analog monitoring and enable I/O
- Fast rise time and protection-oriented OEM integration

Specifications are taken from the supplied PW100X500 source document. Final interface scaling and order limits require a signed model datasheet.



PW160BP128P portable 160 kV X-ray source



- SECURITY
- PIPELINE
- FIELD NDT

- Integrated lithium battery for portable deployment
- Key switch, LED status and detector-alignment laser
- Fixed-anode X-ray tube with internal shielding structure

Input	Focal spot
+24 VDC +/-4 V	0.5 nominal
Tube voltage	Beam
40-160 kV	40 deg cone
Tube current	Control
0.1-0.8 mA	Ethernet + Wi-Fi
Max. power	Weight
128 W	8 kg

SAFETY NOTE

Professional use only. Shielding, interlocks, leakage radiation and regulatory acceptance must be verified for the final configuration.

PW-BP light cone-beam X-ray source series



- INDUSTRIAL CT
- FOOD
- NEW ENERGY
- NDT

Input	Focal spot
220 VAC	0.5 / 0.8 nominal
Tube voltage	Beam
40-120 kV	50 deg cone
Tube current	Control
0.3-8 mA	RS-232 + interlock
Continuous power	Cooling
up to 480 W	Oil loop + fan

The supplied data sheet confirms the PW120BP configuration. Other voltage classes in the product-family folder require separate model-specific confirmation.

- Integrated high-voltage, filament, X-ray tube and control electronics
- Compact flat-form package with status, interlock I/O and thermal protection

LET'S ENGINEER THE NEXT SYSTEM

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Product and compliance data are based on supplied source documents. Final specifications, certificates, shielding and acceptance criteria are subject to the signed technical agreement and third-party verification.

高压电源与 X 射线源 产品解决方案

面向工艺控制、工业成像与科学分析的核心部件和整机平台

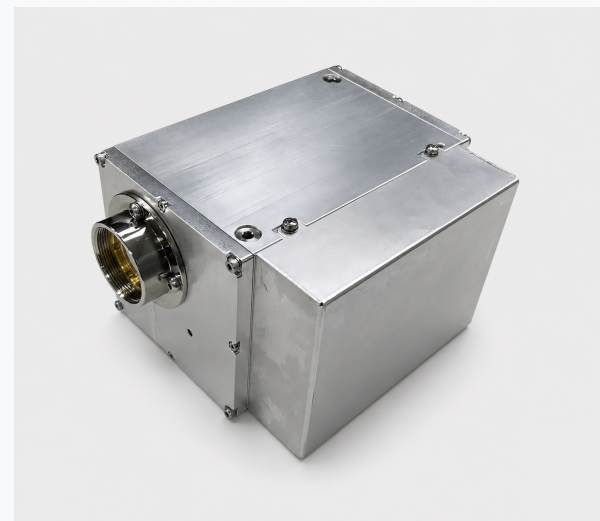
4 大产品平台 / OEM 集成

PWELL Technology (Suzhou) Co., Ltd.

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软 X 射线除静电



高压电源



便携式 X 射线源



轻型锥束 X 射线源

深耕 X 射线系统核心技术

势阱科技（苏州）有限公司专注于 X 射线源和高压电源的研发与生产，为安防检查、食品检查、电子检测、工业无损检测、品质控制和分析仪器提供核心部件及整体解决方案。

公司在苏州设立研发基地、无锡设立生产基地，能力覆盖高压发生、灯丝驱动、X 射线管集成、控制电子与整机安全。创始人具备 20 年高压电源和 X 射线源工程经验，参与过安检、工业、医疗与科学仪器相关产品开发。

责任第一 客户至上

核心工程能力

高压发生	01
灯丝驱动	02
X 射线管集成	03
控制与接口	04
安全集成	05

服务市场

工业 NDT 与 CT

FPD / OLED / 半导体

安防与食品检查

科学与分析仪器

苏州研发基地 | 苏州工业园区春辉路 11 号 4 栋 409 室

无锡生产基地 | 无锡市新吴区金马路 20 号 3 号楼二楼

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四大产品平台，一套系统集成逻辑

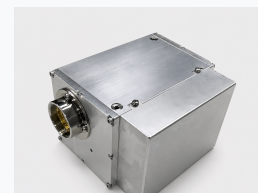


PW-15H

软 X 射线除静电

15 kV | 一台控制器 / 四个机头

FPD、OLED 与半导体工艺静电控制



PW100X500

模块型高压电源

20-100 kV | 最大 500 W

XRF、工业 NDT 与嵌入式 X 射线系统



PW160BP128P

便携式 X 射线源

40-160 kV | 128 W

安防、管道与现场无损检查



PW-BP 系列

轻型锥束 X 射线源

展示配置: PW120BP

工业 CT、食品与新能源检查

五类核心应用场景



半导体

洁净搬送、光刻及各类工艺设备接口



FPD / OLED

面板搬送、曝光、蒸镀与检测设备



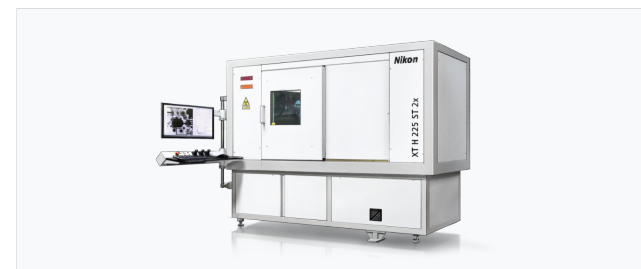
XRF 荧光分析

为分析型 X 射线仪器提供紧凑高压发生平台



户外便携式 NDT

面向管线和焊缝的电池供电现场射线检测



工业 CT

面向三维无损检测的集成 X 射线源平台

公开应用图片来源：ASML、Canon Tokki、卢布尔雅那大学、DURR NDT、Nikon。设备图片仅用于应用场景说明，不代表相关厂商背书。

PW-15H 多头软 X 射线除静电系统



一台控制器 / 最多四个机头

- FPD
- OLED
- 半导体

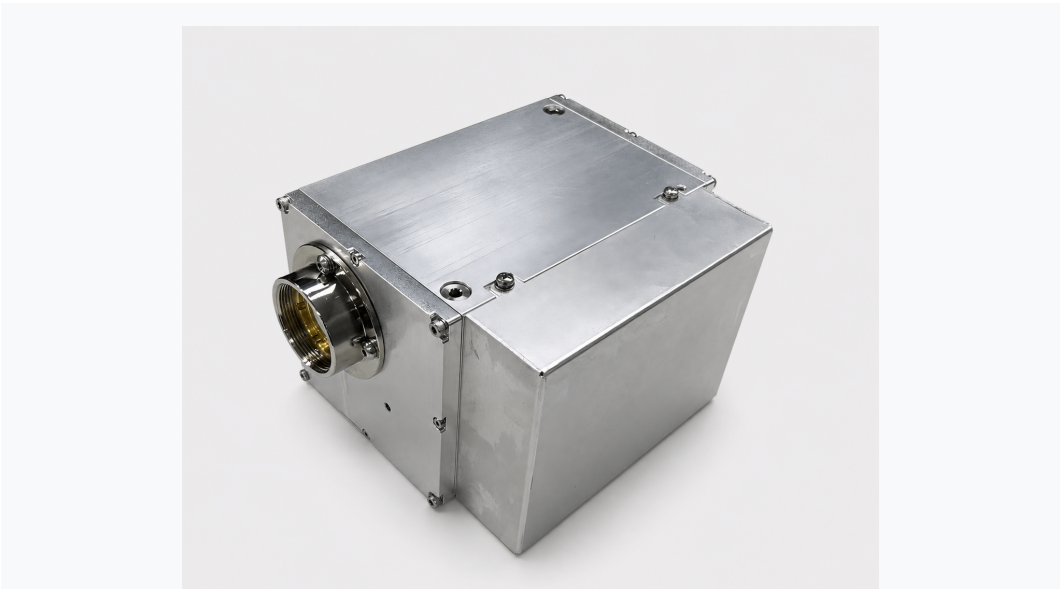
- 通过软 X 射线光电离实现大范围静电中和
- 紧凑机头适合搬送、检查、贴合与清洗出口等工位
- 支持按通道维护与累计运行时间管理

管电压	数字控制
15 kV	RS-485
照射角	重量
150 deg	0.6 kg
输入电源	接口
24 VDC	HR10A-10R-12P
最大功耗	机头尺寸
20 W	132.5 x 33.6 x 65.5 mm

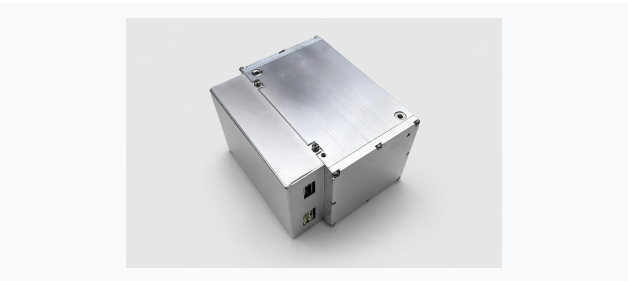
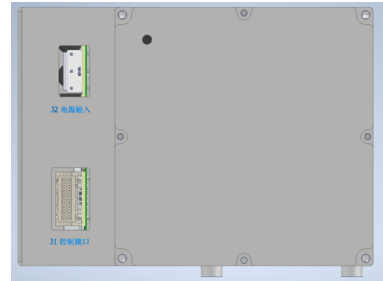
线缆连接青色 HRS/LED 控制端；相反侧圆形窗口为发射端并朝向工艺目标。

10 kV Bar 平台：产品线规划，正式规格尚在开发。

PW100X500 模块型高压电源



X 射线管接口侧



输入	kV / mA 调整率
+448 VDC +/- 4 V	<0.1%
输出电压	纹波
20-100 kV	<1%
输出电流	冷却
0.1-7 mA	外部风冷
最大功率	重量
500 W	4.8 kg

- XRF
- 工业 NDT
- OEM X 射线系统

- 集成高压发生、灯丝驱动与控制电路
- RS-232 数字设定，兼具模拟监测和高压使能接口
- 快速上升与多重保护，适合 OEM 系统集成

参数取自所提供的 PW100X500 产品资料；最终接口比例与订货范围以签署的型号规格书为准。

PW160BP128P 160 kV 便携式 X 射线源



- 安防检查
- 管道检查
- 现场 NDT

- 集成锂电池，适合移动与现场部署
- 钥匙开关、LED 状态与探测器定位激光器
- 固定阳极 X 射线管与内部屏蔽结构

输入	焦点
+24 VDC +/-4 V	0.5 标称
管电压	出束
40-160 kV	40 deg 锥束
管电流	控制
0.1-0.8 mA	Ethernet + Wi-Fi
最大功率	重量
128 W	8 kg

安全提示

仅限专业用途。最终配置必须完成屏蔽、联锁、泄漏辐射与法规验收确认。

PW-BP 轻型锥束 X 射线源系列



- 工业 CT
- 食品检查
- 新能源
- 工业 NDT

输入	焦点
220 VAC	0.5 / 0.8 标称
管电压	出束
40-120 kV	50 deg 锥束
管电流	控制
0.3-8 mA	RS-232 + 联锁
连续功率	冷却
最大 480 W	油循环 + 风扇

现有资料确认的是 PW120BP 展示配置；文件夹所列其他电压等级需要分别确认对应型号规格。

- 集成高压发生、灯丝电路、X 射线管和控制电子
- 紧凑扁平结构，具备状态指示、联锁 I/O 与过温保护

共同定义下一代系统

势阱科技（苏州）有限公司 | 申勇 | +86-18662296583

产品及合规数据来自所提供资料；最终规格、证书、屏蔽方案和验收准则以签署的技术协议及第三方验证为准。