

LNV-1000

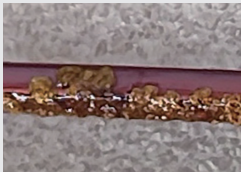
高压针孔粒子缺陷检测系统

High-Voltage
Pinhole
Particle Defect
Detection System

适用于以下情景检测
Applicable to the following situation detections



● 表面气泡凸起
Surface bubble bulging



● 表面连续凹凸
Surface continuous unevenness



● 表面涂层脱落
Surface coating peeling



● 表面挫伤、凹陷
Surface abrasion and indentation

产品简介及特点 Product Introduction and Features

适用于微细圆线、微扁线表面的 针孔、粒子、肿块、颈缩、泡块、粗节、夹杂物、划痕、涂层脱落、挫伤的非接触检测。

Non-contact detection of Pinhole, particles, lumps, necking, bubbles, thick sections, inclusions, scratches, coating detachment, and dents on the surface of fine round wires and micro flat wires.

- 系统最多支持 32 条生产线同时检测
 - 高性能红外光源，低功耗、寿命长
 - 软件自动设置输出高压，自动采集数据
 - DSP 高速数字处理技术，精准、高效
- The system can support the simultaneous detection of up to 32 production lines.
 - High-performance infrared light source, low power consumption and long lifespan.
 - The software automatically sets the output voltage and collects data.
 - High-speed DSP digital processing technology for precision and efficiency.

多功能数据处理软件 Multifunctional data processing software



参数设置选项

设置被测物规格参数。

Parameter Settings

Allows users to input specifications for the workpiece.

检测数值显示

显示针孔缺陷和凹凸缺陷的数量和位置。

Measurement Display

Display the quantity and location of pinhole defects and convex-concave defects.

信息统计、规格参数

可显示整体的检测结果，生成图表，统计分析整体生产质量。

Information & Specification Stats

Display the overall detection results, generate charts, and conduct statistical analysis of the overall production quality.

操作查询

查询操作员操作记录。

Operator Records

Enables querying of operator activity logs.

历史数据查询导出

按日期查询生产数据，并生成检测数据图表，使数据更直观易读。

Historical Data Query & Export

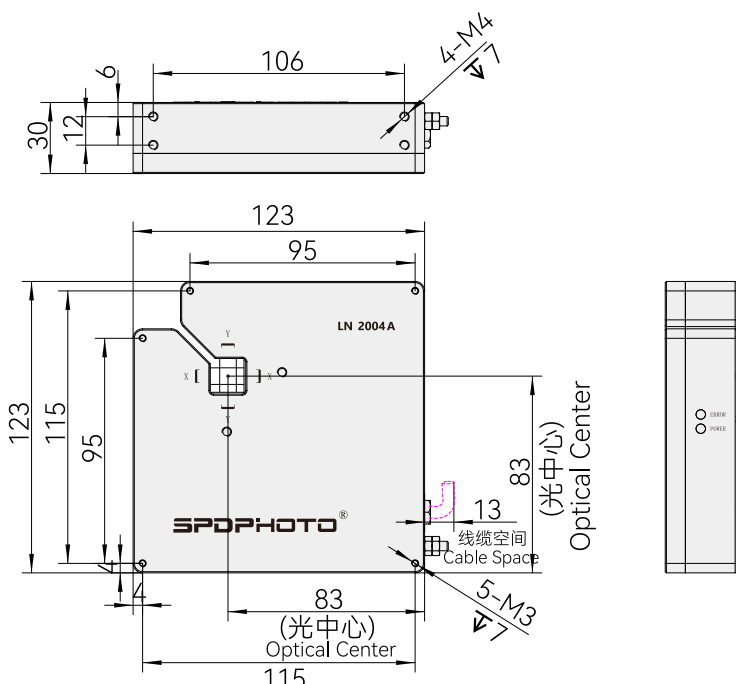
Allows users to search for production data by date and generate visual data charts for clearer insights.

产品技术指标 Technical Specifications

测量头 measurement heads

产品型号 (Product model)	LNV-1000
凹凸设定范围 (Lump and Neck Range)	0.002-0.999mm
适用线径 (Applicable Wire Diameter)	0.02-1.0 mm (可定制) (Optional)
检测方式 (Detection Method)	高压 200V-3000V 及 红外光幕非接触式连续检测 (Infrared light curtain non-contact continuous detection)
检测灵敏度 (Sensitivity)	设定值的 $\pm 1\%$ ($\pm 1\%$ of set value)
线速度 (Line Speed)	5m/min~1500m/min
报警输出 (Alarm output)	2 路继电器 (Two relays)
信号输出 (Signal output)	16 路凹凸缺陷信号输出 (16 channels of convex and concave defect signal output)
信号输入 (Signal input)	16 路信号输入 (16 channels of signal input)
I/O 接口 (I/O Interface)	数字量输入 (digital input)
最大联机数 (I/O Interface)	32
数据采集分析 (I/O Interface)	专业分析软件 (Professional analysis software)
通讯 (Communication)	TCP/IP
环境要求 (Environmental Requirements)	接地必须良好 (Good grounding)
环境温度 (Temperture)	0 至 $+50^{\circ}\text{C}$ (32 至 122°F) (0 to $+50^{\circ}\text{C}$ (32 to 122°F))
环境湿度 (Humidity)	35% 至 85% RH, 无凝结 (35% to 85% RH, non-condensing)
供电电源 (Power supply)	AC220V 50Hz

测量头
measurement heads



控制器
controller

