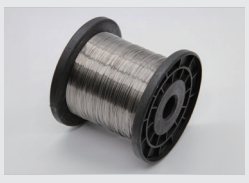
LCG-1006S

CCD 远心成像微细线测径仪

CCD Telecentric Imaging Fine Wire Diameter Gauge

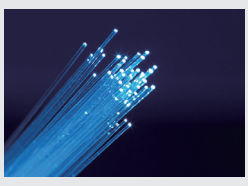
适用于以下产品测量
Measurement for



- 金属微拉丝 micro-drawn wire

- 漆包线 enameled wire

- 金属丝 tinned wire



- 光纤 optical fiber

产品简介及特点 Product Introduction and Features

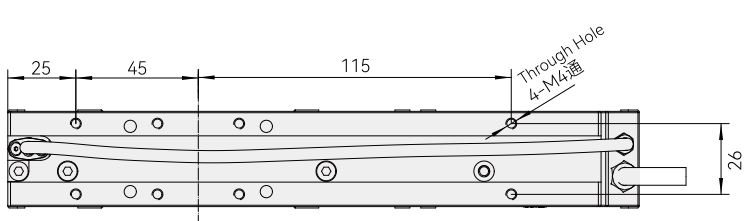
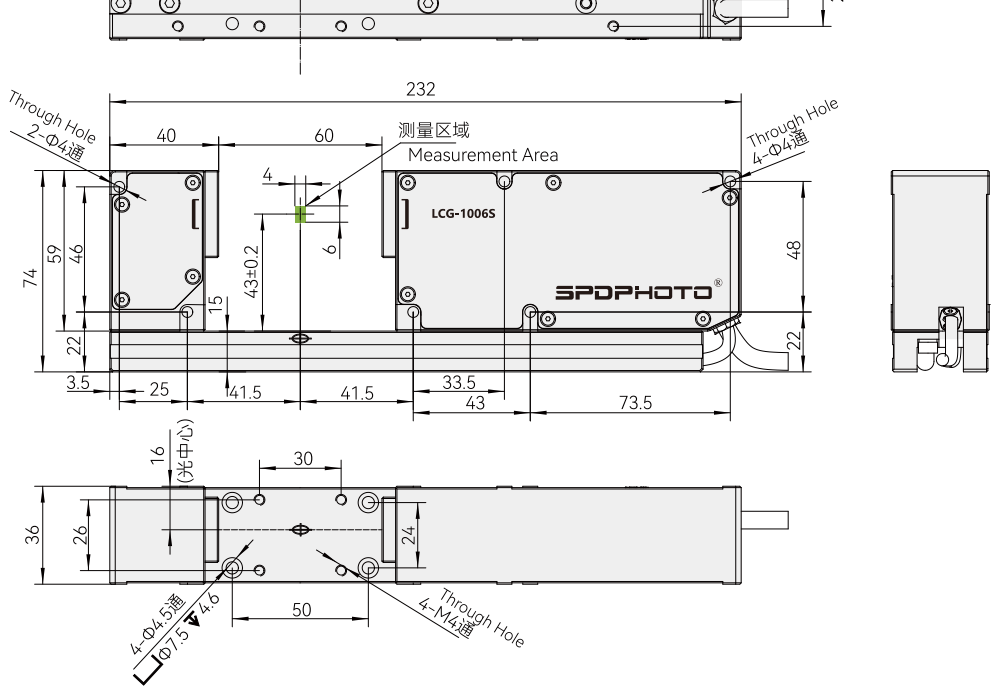
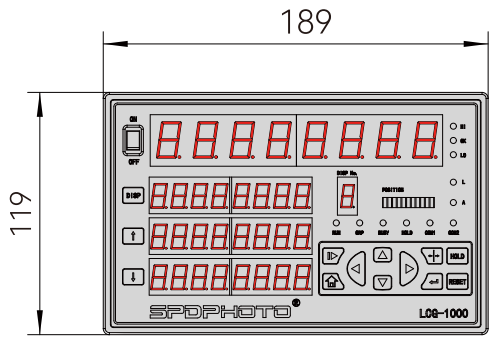
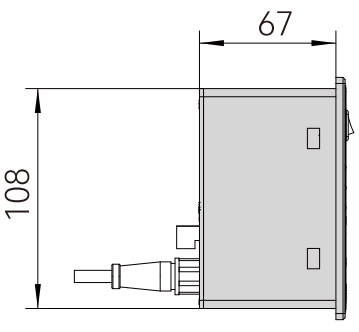
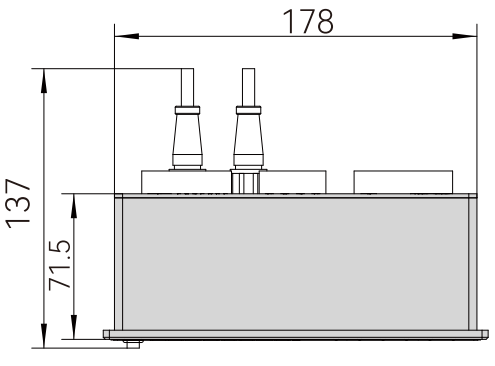
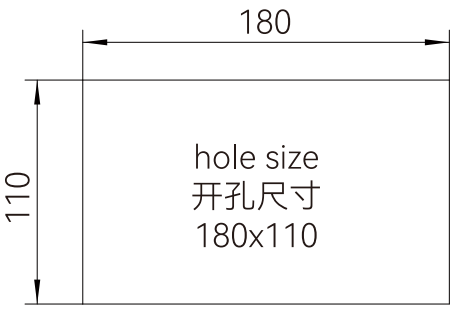
采用激光扫描原理对被测物进行非接触式测量，不对被测物表面造成损伤，支持生产线在线测量或实验室离线测量。得益于多场景应用的结构设计和模块化的数字电路设计，使得体积相较同类产品更加小巧，安装方便，大大减小空间局限性的制约。

- 使用高速 CCD 远心光学系统成像技术
- 高精度单周期数据采集
- 特殊光学设计，确保宽度厚度精准测量
- 高速激光采样，DSP 高速数据处理
- 高采样频率，可捕捉表面凹凸缺陷
- 定制高精度工装设置

Utilizes the principle of laser scanning for non-contact measurement, avoiding surface damage. It supports both production line and lab measurements. Its multi-scenario and modular design make it compact, easy to install, and space-efficient.

- Using high-speed CCD telecentric optical system imaging technology .
- High-precision, single-cycle data acquisition.
- Special optical design to ensure precise measurement of width and thickness.
- High-speed laser sampling with DSP high-speed data processing.
- High sampling frequency to capture surface defects such as dents and irregularities.
- Customized high-precision tooling.

产品技术指标 Technical Specifications

产品型号 (Product model)	LCG-1006S
测量范围 (Measuring range)	0.04-6mm
最小分辨率 (Min-Resolution)	0.0001mm
测量精度 (Accuracy)	±0.5μm±0.01%*D
重复精度 (Repeatability)	±0.1μm±0.005%*D
采样频率 (Scanning frequency)	2400Hz
报警输出 (Alarm output)	24V，1A(触点负载）/ Contact output (load 24V-1A)
通讯 (Communication)	RS-485/MODBUS 协议 / RS485 (MODBUS protocol)
供电电源 (Power supply)	DC24V-1A
显示面板 (Display panel)	4 排 8 位数码管（4 rows of 8-segment displays）
环境温度 (Temperture)	0 至 +50℃ (32 至 122° F) / 0 to +50°C (32 to 122°F)
环境湿度 (Humidity)	35% 至 85% RH, 无凝结 / 35% to 85% RH, no condensation

注：“D”为被测物实际测量显示值。 Note: "D" represents the actual measured value of the workpiece.