

PS321 Spectrometer

The **PS321** spectrometer delivers all the benefits of miniature, modular spectroscopy, integrating performance-enhancing features and are produced using industry-leading manufacturing techniques with the benefits of greater thermal stability and lesser unit-to-unit variability, plus the freedom of interchangeable slits, simple device connectors and LED status indicators.

The **PS321** covers UV through Visible-NIR wavelengths as well as a detector collection lens for enhanced sensitivity performance.

Key features:

- Thermal Stability
- Less unit-to-unit variability
- LED Status indicators
- Interchangeable slits
- Simple device connectors
- UV through visible-NIR
- Configurable wavelength



Specifications

Spectroscopy:

Integration Time
1ms – 65s

Optical Resolution
1.69nm FWHM (typical)

Wavelength Range
200nm-1.025µm

Corrected linearity
>99%

Dark Noise
50 RMS counts

Dynamic Range
1300:1 for a single acquisition (system)

Signal to Noise ratio
250:1 (full signal)

Electronics:

A/D Resolution
16 bit

Connectors
USB, high density 40 pin JAE DD4

Inputs / Outputs
8 x user programmable GPIOs

Trigger modes
4

Power Consumption
250mA @ 5 VDC

Detector

Linear silicon CCD array

User interchangeable slit

Vary the resolution and throughput of the spectrometer on demand
Entrance slit - 25µm

Pixels
2048

LED Status
Indicator of power and data transfer status

Plug & Play via micro USB

Dimensions
89.1mm x 63.3mm x 34.4mm

Weight
265g

Important

All wiring must be carried out by a qualified electrician in accordance with the current edition of the wiring regulations and any applicable regional standards

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