

Detectors

Power Meters

CCD Cameras

Optical Chopper

Beam Profilers & Extensions Sets

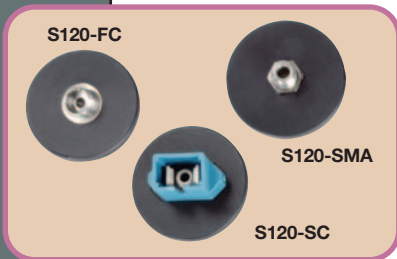
Spectrometers

Temperature Controller & Shutter

Filter Wheels

S120 Series Photodiode Sensor Heads

The S120 Series calibrated sensors are designed for wide dynamic range optical power measurements in the 50nW to 500mW range. These photodiode sensors are equipped with an IR target disk for easy alignment when operating in the IR. All S120 Series sensors are compatible with our PM100, PM300, and PM30 power meter consoles. Each sensor head is individually calibrated with data stored in a non-volatile memory inside the connector and ships with a NIST Traceable Calibration Certificate.



General Specifications

- **Large Input Aperture:** Ø9.5mm
- **Compact Sensor Head:** Ø30.5mm x 12.7mm Thick
- **Accuracy:** ±5% NIST Traceable
- **Integrated IR Viewing Card**
- **Damage Threshold:** 50W/cm²
- **IR Target Absorption Bands:** 400-640nm and 800-1700nm

	S120B	S120UV	S121B	S122B
Optical Power Range	50nW - 50mW	50nW - 50mW	500nW - 500mW	35nW - 35mW
Spectral Range	400 - 1100nm	200 - 1100nm	400 - 1100nm	700 - 1800nm
Diode Type	Silicon	Silicon	Silicon	Germanium

Note: Specs assume operation with PM Series console

ITEM#	\$	£	€	RMB	DESCRIPTION
S120B	\$ 225.00	£ 141.80	€ 209,30	¥ 2,148.80	Si Photodiode Optical Sensor, 400-1100nm, 50nW-50mW
S120UV	\$ 350.00	£ 220.50	€ 325,50	¥ 3,342.50	Si Photodiode Optical Sensor, 200-1100nm, 50nW-50mW
S121B	\$ 250.00	£ 157.50	€ 232,50	¥ 2,387.50	Si Photodiode Optical Sensor, 400-1100nm, 500nW-500mW
S122B	\$ 495.00	£ 311.90	€ 460,40	¥ 4,727.30	Ge Photodiode Optical Sensor, 700-1800nm, 35nW-35mW
S120-FC	\$ 26.00	£ 16.40	€ 24,20	¥ 248.30	FC/PC Fiber Adapter for the S120 Sensor Heads
S120-SMA	\$ 26.00	£ 16.40	€ 24,20	¥ 248.30	SMA Fiber Adapter for the S120 Sensor Heads
S120-SC	\$ 33.00	£ 20.80	€ 30,70	¥ 315.20	SC Fiber Adapter for the S120 Sensor Heads

S130 Series Slim Photodiode Sensor Heads

General Specifications

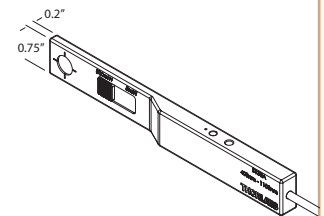
- **Sensor Dimension:** 5.91" x 0.75"
- **Slim Design:** 5mm (0.2") Thickness at Detector Side
- **Input Aperture:** Ø9.5mm
- **Sliding ND Filter**

	S130A	S132A
Optical Power Range	5nW-5mW	5nW-5mW
With Filter	50nW-500mW	50nW-500mW
Spectral Range	400-1100nm	700-1800nm
Diode Type	Silicon	Germanium

The ultra-slim sensor of the S130 Series is designed for setups where space is limited. Measuring only 0.75" x 0.2" at the photodiode location, the S130 Series sensor fits where most sensors cannot. Available with Si or Ge detectors, two models cover the wavelength ranges of 400 to 1100nm, and 700 to 1800nm. The S130A and the S132A feature a power range of 5nW to 500mW. They are ideal for measurements on low-power CW laser beams.

Slideable ND Filter

The built-in, sliding ND filter is used to extend the power range to a maximum of 500mW. The two calibration curves for the sensor – with and without filter – are stored in memory. When moving the filter-slider, the appropriate calibration data and power range will be downloaded to the connected power meter console. Automatically, all wavelength and power range settings will be adjusted, and the correct power values will be shown on the console. Two sets of #8-32 and M4 threaded mounting holes allow mounting onto our standard post and post holders.



ITEM#	\$	£	€	RMB	DESCRIPTION
S130A	\$ 395.00	£ 248.90	€ 367,40	¥ 3,772.30	Slim Photodiode Sensor, Si, 400-1100nm, 5nW to 500mW
S132A	\$ 595.00	£ 374.90	€ 553,40	¥ 5,682.30	Slim Photodiode Sensor, Ge, 700-1800nm, 5nW to 500mW