

Cooled NIR Fiber Spectrometer (900-2200nm)

N-series

The core component adopts InGaAs linear image sensor, which has high sensitivity and stability in the near-infrared region. Professional spectroscopy equipment for scientific research-grade near-infrared applications. It has the characteristics of small size, easy operation, and excellent performance.

Features

- Symmetrical cross CT optical path, incident focal length 100mm
- High signal-to-noise ratio, low stray light
- Cooled InGaSn Detectors
- Batch Consistency Control
- Support GPIO



Technical Advantages

1. High sensitivity, high dynamic range

The N series spectrometer features Hamamatsu InGaAs linear image sensors, with TEC cooling, up to -20 °C, which makes the detector less noisy, which makes it more suitable for low-light detection; the signal-to-noise ratio and dynamic range can reach 15000:1.

2. Powerful PC software

The PC software provided with the spectrometer-FLAVOR is powerful software. In addition to the basic spectrum acquisition control functions, it also has functions such as saturation and automatic adjustment of the integration time, recording of the real integration time, and automatic peak finding. At the same time, the software also includes characteristic functions such as wavelet smoothing with patented technology. SDK supports Windows, Android, and Linux operating systems, and can provide secondary development packages in C#, C++, Java, Python, and other languages.

3. High stability

0~40°C, the spectral resolution remains unchanged, which is the best choice for industrial applications.

4. Simple to use

No configuration, preheating, plug and play
Separate 5V DC power supply

Applications

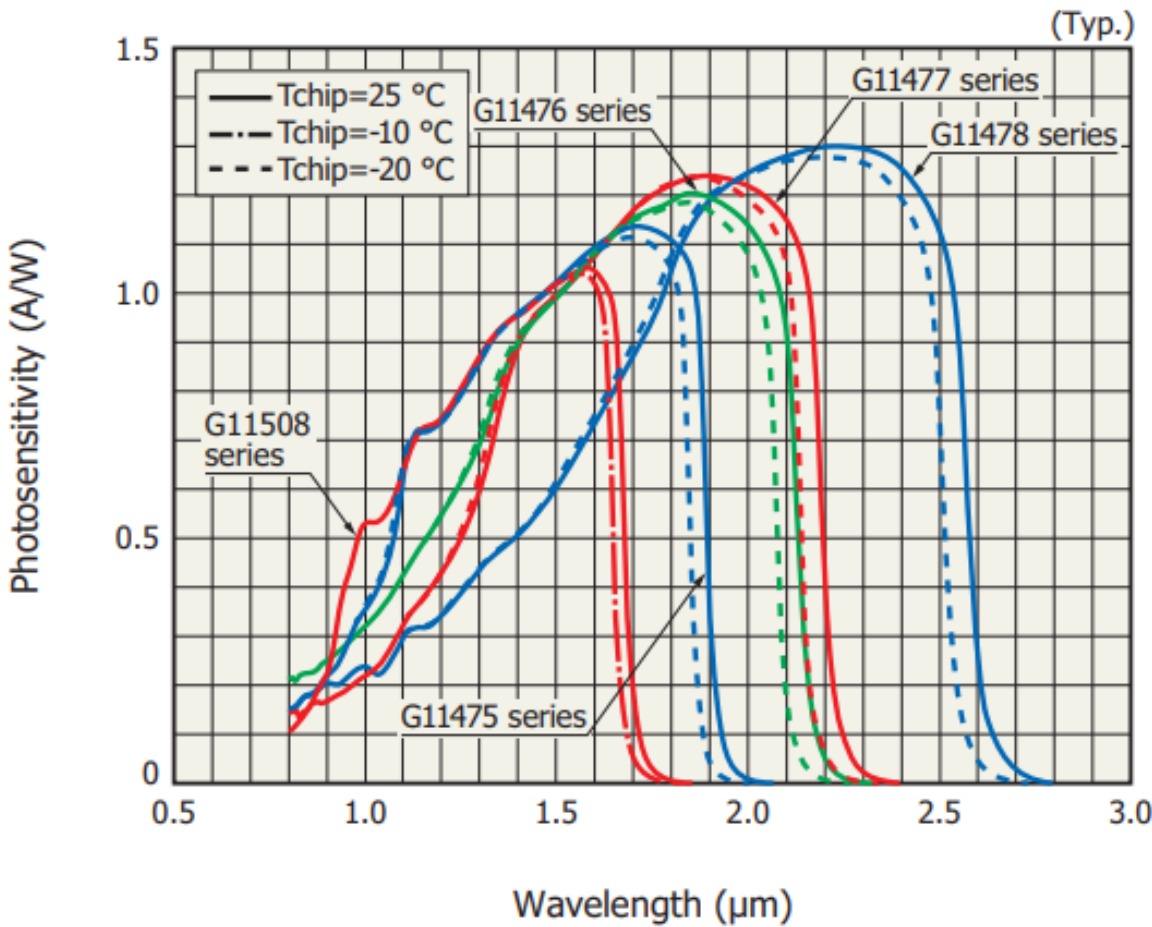
- Microspectroscopy
- Transmittance Measurements
- Jewellery / Ore Spectroscopy
- Plant / Biological Sample Testing
- Textile Testing
- Antique / Artifact Test

Product Specifications*

Model	Wavelength Range	Grating Scribe / Blaze Wavelength	Slit Width				
			10 μm	25 μm	50 μm	100 μm	200 μm
N/900-2200	900-2200nm	100 / 1500nm	8nm	9nm	10nm	20nm	40nm

Configuration Example

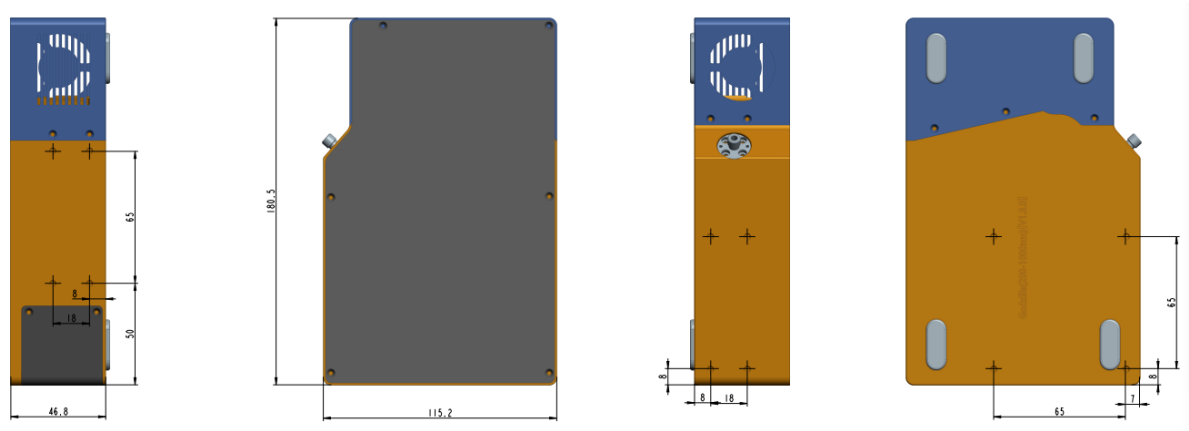
Detector Response Curve – G11477



Product Parameters

Size	180.5 x 115.2 x 46.8mm
Weight	1.328 kg
Slit	10um , 25um , 50um , 100um , 200um optional
Fiber Holder	SMA905 or FC/PC optional
Resolution	0.2nm FWHM or above
Signal to Noise Ratio	15,000:1
Integration Time	7mS ~ 30min

Product Size



*Due to ongoing continuous product improvement, specifications are subject to change without notice.