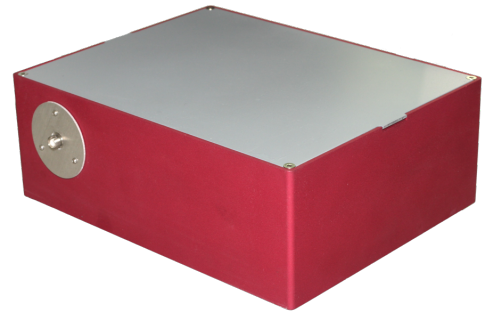


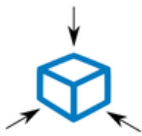
# Miriad S3

Fast and tunable spectrometer from 1000-5000 nm

Building on the feedback from our most recent customers, the Miriad S3 provides all the benefits of the Miriad Spectrometer but now with a tunable center wavelength. The Miriad S3 can be software controlled to allow wavelength coverage over the entire 1000-5000 nm range.



Benefits from the original model still apply:



Compact device  
(portable)



Fast read out  
(up to 410 fps)



USB powered



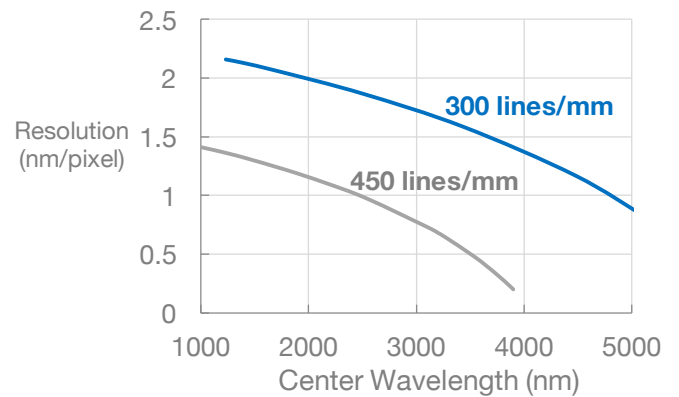
Room temperature  
operation

## Technical data

<b>Optical Layout</b>	Cross Czerny-Turner
<b>Wavelength range</b>	1000-5000 nm
<b>Resolution (typical)</b>	1-2 nm
<b>Detector</b>	PbSe (256-pixel array)
<b>Sensitivity of pixel*</b>	$2 \times 10^9 \text{ (cm Hz}^{0.5}\text{W}^{-1}\text{)}$
<b>Signal/Noise</b>	250:1
<b>Integration time</b>	4-20 $\mu\text{m}$ /scan
<b>Data transfer speed</b>	Up to 410 fps
<b>Average weight</b>	2 kg
<b>Power supply</b>	USB

\*- peak value at 3.7  $\mu\text{m}$

## Performance with different gratings



The Miriad S3 can be installed with a 300 or 450 lines/mm gratings to improve the resolution at certain wavelengths. Depending upon your application and wavelengths of interest we can look into designing custom systems.

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