



integrated spectral solutions



THE SPECTRAL SENSING COMPANY

## Product Overview

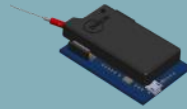
### UV VIS Micro Spectrometer

UV VIS /M



54 x 31 x 9.1 mm<sup>3</sup>

UV VIS /S



67 x 36 x 22 mm<sup>3</sup>

UV VIS /H



69.3 x 39.6 x 13.6 mm<sup>3</sup>

Wavelength range: 320 - 1050nm

Resolution: 10 nm <sub>FWHM</sub>

Sensitivity: 80 E12 cts x nm/Ws @ 650 nm

Optical Interface: \*300/330µm/NA0.22 fiber (450 mm/SMA)/\*SMA

### UV VIS SENS High Sensitivity Micro Spectrometer

UV VIS SENS /M



54 x 42 x 9.1 mm<sup>3</sup>

UV VIS SENS /S



67 x 42 x 22 mm<sup>3</sup>

UV VIS SENS /H



69.3 x 47.1 x 13.6 mm<sup>3</sup>

Wavelength range: 320 - 1050nm

Resolution: 10 nm <sub>FWHM</sub>

Sensitivity: 20 E15 cts x nm/Ws @ 650 nm

Optical Interface: \*300/330µm/NA0.22 fiber (450 mm/SMA)/\*SMA

### UV VIS SENS HR5 High Sensitivity Micro Spectrometer

HR5 /M



54 x 42 x 9.1 mm<sup>3</sup>

HR5 /S



67 x 42 x 22 mm<sup>3</sup>

HR5 /H



69.3 x 47.1 x 13.6 mm<sup>3</sup>

Wavelength range: 320 - 1050nm

Resolution: 5 nm <sub>FWHM</sub>

Sensitivity: 5 E15 cts x nm/Ws @ 650 nm

Optical Interface: \*300/330µm/NA0.22 fiber (450 mm/SMA)/\*SMA

### UV VIS SENS HR3 High Sensitivity High Resolution

HR3 /M



54 x 42 x 9.1 mm<sup>3</sup>

HR3 /S



67 x 42 x 22 mm<sup>3</sup>

HR3 /H



69.3 x 47.1 x 13.6 mm<sup>3</sup>

Wavelength range: 320 - 1050nm

Resolution: 3 nm <sub>FWHM</sub>

Sensitivity: 2.5 E15 cts x nm/Ws @ 650 nm

Optical Interface: \*300/330µm/NA0.22 fiber (450 mm/SMA)/\*SMA

### 2C UV VIS Two Channel Spectrometer

2C-UV-VIS /H



69 x 54 x 13 mm<sup>3</sup>

Wavelength range: 2 x 320 - 1050nm

Resolution: 10 nm <sub>FWHM</sub>

Sensitivity: 20 E15 cts x nm/Ws @ 650 nm

Optical Interface: 2 x SMA 905 connector\*

### UV2NIR Wide Range Spectrometer

UV2NIR /H



69 x 54 x 13 mm<sup>3</sup>

Wavelength range: 200 - 1000 nm

Resolution: 10 nm <sub>FWHM</sub>

Sensitivity: 20 E15 cts x nm/Ws @ 650 nm

Optical Interface: 2 x SMA 905 connector\*

INSION has more than 20 years experience in the field of application development. Our overall project support includes hard- and software development, product design and chemometry. We offers a wide range of customized solutions. Please ask for custom-designed spectral sensors, spectrometers, application specific sampling optics, light sources, fibers, filters, diffusors and other application-specific accessories.



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## Monolithic micro spectrometers for diagnostic and process applications

### NIR NT

NIR Micro Spectrometer

NIR NT /S



67 x 36 x 22 mm<sup>3</sup>

NIR NT /H



69.3 x 39.6 x 13.6 mm<sup>3</sup>

Wavelength range: 900 - 1700 nm

Resolution: 16 nm<sub>FWHM</sub>

Sensitivity: 150 E12 cts x nm/Ws @ 1500 nm

Optical Interface: 300/330µm/NA0.22 fiber (450 mm/SMA)/\*SMA

### NIR 1.7

NIR Micro Spectrometer

NIR 1.7 /M



61 x 43 x 14.9 mm<sup>3</sup>

NIR 1.7 /S



108 x 76.6 x 21.5 mm<sup>3</sup>

NIR 1.7 /H



114.6 x 85 x 48.5 mm<sup>3</sup>

Wavelength range: 900 - 1700 nm

Resolution: 16 nm<sub>FWHM</sub>

Sensitivity: > 100 E12 cts x nm/Ws @ 1500 nm

Optical Interface: 300/330µm/NA0.22 fiber (280 mm/SMA)

### NIR 2.0

NIR Micro Spectrometer

NIR 2.0 /S



108 x 76.6 x 21.5 mm<sup>3</sup>

NIR 2.0 /H



114.6 x 85 x 48.5 mm<sup>3</sup>

Wavelength range: 940 - 2000 nm

Resolution: 16 nm<sub>FWHM</sub>

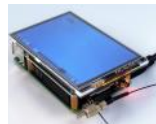
Sensitivity: > 100 E12 cts x nm/Ws @ 1500 nm

Optical Interface: 300/330µm/NA0.22 fiber (280 mm/SMA)

## Raspberry SPEGG with touch screen

Mobile Analytical System

Light source, Spectrometer, touch screen, Demo software in Python



86 x 57 x 26 mm<sup>3</sup>

Wavelength range: 320 - 1050nm

Resolution: 10 nm<sub>FWHM</sub>

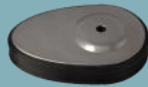
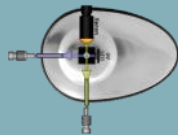
Sensitivity: 80 E12 cts x nm/Ws @ 650 nm

Optical Interface: SMA 905 connector\*

## SPEGG

Mobile Analytical System

Cuvette holder, Light source, Spectrometer, Software



133 x 92 x 30 mm<sup>3</sup>

Wavelength range: 350 - 1000 nm

Resolution: 10 nm<sub>FWHM</sub>

Sensitivity: 80 E12 cts x nm/Ws @ 650 nm

Optical Interface: Cuvette holder

\* Customizing on request

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