

X-RES

AN EXTREME RESOLUTION SPECTROMETER THAT IS CAPABLE OF RESOLVING EXTREMELY CLOSE SPECTRAL FEATURES

Perfect for High-Resolution Applications

User-Interchangeable Slits and Optical Filters

Optical Resolution as Low as 0.05 nm (FWHM)

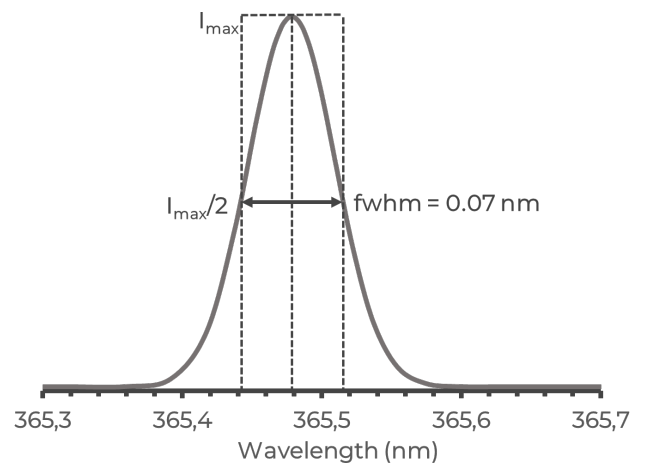
Improved Optical Design – With Focal Distance of 100 mm

Software LightScan Included



PERFECT FOR HIGH-RESOLUTION APPLICATIONS

X-RES spectrometers combine an improved optical design with a focal distance of 100 mm with the best available optics to provide great capability of resolving spectral features as low as 0.05 nm. The eight complementary pre-configured wavelength ranges grant extreme resolution across the full UV/Vis/NIR Range.

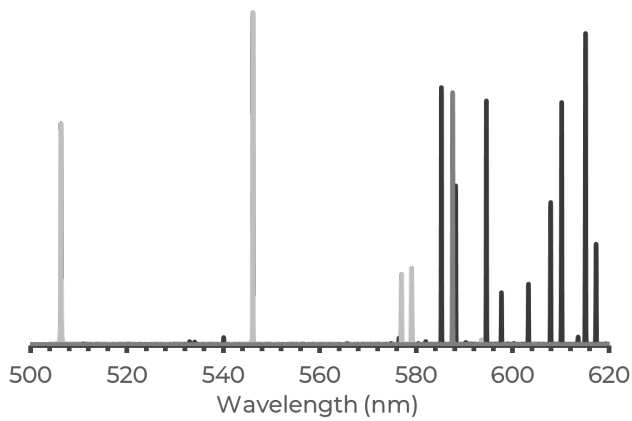


CONTROL THE SENSITIVITY AND RESOLUTION OF YOUR SPECTROMETER

With X-RES spectrometer, you can take advantage of interchangeable slits and optical filters. User-interchangeable slits offer an easy and simple way of setting the optimal resolution/sensitivity while interchangeable optical filters provide the user with the ability to narrow the operational wavelength range of the spectrometer.

EASY TO INTEGRATE IN YOUR SETUP

As a fiber optic spectrometer, X-RES is ready to couple to a wide range of setups without the need for complex optical alignments. This flexibility is complemented with a number of integration tools that include triggers (trigger in/out and delays) and software packages for LabVIEW™ or DLL, for software development. X-RES and all spectroscopic components of your setup can be centralized for full control with our new SPEC Hub solution.



CHARACTERIZATION OF ATOMIC EMISSION LINES

The spectrum represents a real life case of atomic emission lines detection of Mercury, Neon and Helium obtained with the X-RES spectrometer configured from 500 to 620nm. It's possible to verify the great performance with optimum symmetry and resolution over the entire range. Also, even with a really high density of peaks between 570 and 610nm the separation is perfect.

Specifications Table

Operational Range	Grating	Slit width
185-1100 nm (divided in 8 operational ranges)	according to the selected range	10 μ m
Optical Resolution	Detector	Trigger
0.05 to 0.1 nm	3648-element Toshiba	In / Out
Fiber Connector	Interface	Integration Time
SMA-905	Mini-USB (works also as power supply)	3 ms (minimum)
Dimensions	Weight	
175 mm (L) x 151 mm (D) x 50 mm (H)	1.5 Kg	

Order Information

Description	Wavelength Range	Part number	
		Base version	Improved Sensitivity
Spectrometer X-RES 1	190-290 nm	X-RES-1	X-RES-1-IS
Spectrometer X-RES 2	280-380 nm	X-RES-2	X-RES-2-IS
Spectrometer X-RES 3	370-460 nm	X-RES-3	X-RES-3-IS
Spectrometer X-RES 4	440-520 nm	X-RES-4	X-RES-4-IS
Spectrometer X-RES 5	500-620 nm	X-RES-5	X-RES-5-IS
Spectrometer X-RES 6	600-710 nm	X-RES-6	X-RES-6-IS
Spectrometer X-RES 7	690-810 nm	X-RES-7	X-RES-7-IS
Spectrometer X-RES 8	780-960 nm	X-RES-8	X-RES-8-IS

CONTACTS



(+351) 223 709 107



www.sarspec.com



info@sarspec.com