

WP 248 Raman Spectrometer Series

Eliminate fluorescence background



FEATURES AND BENEFITS

400 - 3200 cm^{-1} Raman range

Superior sensitivity, compact size

Robust optical design for stable, reproducible Raman spectra

Easy to use Raman software & SDKs

Ideal for creating a free-space, benchtop Raman system

Configurable for your specific sample and needs

Excite with UV light to work below the fluorescence window

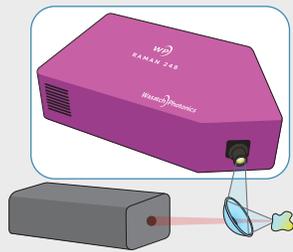
UV Raman yields fluorescence-free spectra for complex organic, biological, and mineral samples, as well as access to resonance Raman for macromolecule subgroups. Our proprietary high-NA design was created specifically for the needs of Raman users like you. It captures more light from your sample, guiding it through optimized optics and our own patented high-efficiency VPH transmission gratings to deliver more sensitivity, less noise, and faster measurements than you'd ever expect from a compact spectrometer. It's built with rock-solid mechanics to give you the reproducibility, stability, and durability you need. It's run by Raman-ready software and SDKs that make spectral acquisition easy. That leaves only one question - which model is right for you? Let's explore that answer together.

**Need advice or testing for your Raman application?
Contact us to get started!**

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STANDARD PRODUCT SPECIFICATIONS & OPTIONS

We believe Raman should be sensitive, robust, and reproducible, and its format should fit the unique requirements of your application. That's why we offer multiple configuration options that adapt to your needs, from choice of slit size and spectrometer input to detector cooling. Whether you're new to Raman or an experienced user, our experts can advise on the best value for you, and provide the data & testing to back it up.

| PARAMETER | | VALUE(S) | SYSTEM CONFIGURATION | |
|--------------|--|---|---|---------------------|
| SPECTROMETER | Measurement Range (cm ⁻¹) * | 400-3200 cm ⁻¹ | FULLY MODULAR  | |
| | Resolution | 25 μm slit | | 14 cm ⁻¹ |
| | Spectrometer f/# | | | f/2.0 |
| | Spectrometer input | Integrated lens* (free space available upon request & user-exchangeable in field) | | |
| | Detector cooling options (see table below for details) | Uncooled/ambient (-A) TEC-regulated, 10°C (-R) | | |

* Start and end wavenumber may be customized, but total range is fixed. Contact us for options.

| DETECTOR OPTIONS | | Uncooled (-A) | TEC-regulated (-R) |
|------------------|----------------------|--|--------------------|
| | Detector Temperature | Ambient | 10°C ± 0.2°C |
| | # of Pixels | 1024 | 1024 |
| | Integration Time | 3 ms - 60 s | 3 ms - 60 s |
| | Communications | ENLIGHTEN™ desktop software & SDKs included; data transfer via USB 2.0 | |

Explore related products:

- The WP248 is designed for use with a Photon Systems 248.6 nm NeCu laser, and includes a compatible triggering accessory. Need help designing your free-space sampling optics? Contact us to discuss.
- Need an alternate fluorescence-reduction option? Consider our [1064 nm modular spectrometer](#) or [fully integrated system](#)
- Need fiber-coupling at a short excitation wavelength? Try our [WP 405 spectrometer](#)