

# WP 1064 Raman Spectrometer Series

The fastest, cleanest NIR Raman available



## FEATURES AND BENEFITS

250 - 1850  $\text{cm}^{-1}$  Raman range

Superior sensitivity, compact size

Robust optical design for stable, reproducible Raman spectra

Easy to use Raman software & SDKs

Two versatile system configurations: modular or fully integrated

Optional 450 mW interlocked laser

Configurable for your specific sample and needs

### Superior signal to noise (SNR) for challenging samples, above the fluorescence window

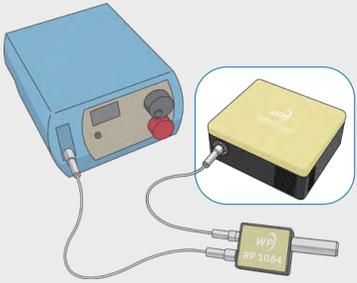
1064 nm offers significantly lower fluorescence for complex organic, highly pigmented, or biological samples, but requires high SNR to counteract its lower signal. Our proprietary high-NA design was created specifically for the needs of NIR Raman users like you. It captures more light from your sample, 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 the choice of a flexible, modular setup or a compact, cost-effective integrated system, each with configuration options that adapt to your needs. Whether you need a spectrometer or a full system, 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 <sup>-1</sup> ) * | 250 - 1850 cm <sup>-1</sup>                                   | <b>WP-1064-SR-IC   FULLY MODULAR</b>   |   |
|  | Resolution                              | 25 μm slit  | 6 cm <sup>-1</sup>   |  |
|  |   | 50 μm slit  | 11 cm <sup>-1</sup>  |   |
|  | Spectrometer f/#                        | f/1.3   |  |   |
|  | Spectrometer input                      | SMA 905 (lens or FC/PC optional)                              |  |   |
| Detector cooling options (see table below for details) | TEC-cooled, -15°C (-C)                  |   |  |   |
| SPECTROMETER LASER & SAMPLING OPTICS                   | Integrated laser                        | 1064 nm, multimode<br>Up to 450 mW, control via software      | <b>WP-1064-SR-ILP   FULLY INTEGRATED</b>   |   |
|  | Sample interface optics                 | Fully integrated, matched NA optics (internal lens & filters) |  |   |
|  | Working distance (from face of lens)    | 22 mm   |  |   |
|  | Laser spot size (nominal)               | 120 μm  |  |   |

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

|                  |                      |  |
|------------------|----------------------|--|
| DETECTOR OPTIONS |                      | TEC-cooled (-C)  |
|                  | Detector Temperature | -15°C ± 0.2°C  |
|                  | # of Pixels          | 512  |
|                  | Integration Time     | 1 ms - 60 s  |
|                  | Communications       | ENLIGHTEN™ desktop software & SDKs included; data transfer via USB 2.0 |

### Explore related products:

- Need faster measurements that minimize fluorescence? Our [830 nm spectrometer](#) or [fully integrated system](#) could help
- Accessories: [User-configurable probes](#), sample holders & [standalone lasers](#)
- Streamlined drop-in [OEM modules](#) with the same sensitivity & speed