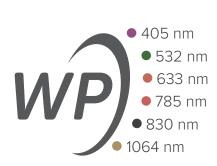
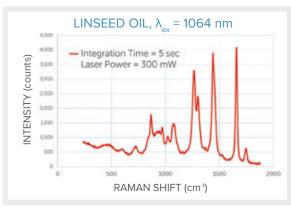


RAMAN SPECTROSCOPY

See more, faster than ever before

At Wasatch Photonics we design the kind of Raman spectroscopy products we want to use. As spectroscopists ourselves, we understand the difference that high sensitivity, low noise, and the ability to capture spectra quickly can make to a research project or OEM product design. With a superior optical bench, more configuration options, and greater spectroscopy expertise than you'll find anywhere else, we will help you see more, faster than ever before.





Our WP 1064 Raman spectrometer leads the market for low noise and short integration time.

ADVANTAGES

Low f/#, highly efficient optical design

Patented in-house grating technology

High sensitivity to capture weak signals

Superior limit of detection and speed

Multiple detector cooling options

Modular and integrated solutions

Compact, robust and configurable

Excellent thermal stability

APPLICATIONS

Trace level material identification

SERS and taggant detection

Industrial process control

Gemstone, mineral, & art analysis

Graphene & nanomaterials characterization

Pharmaceutical inspection & ID

Anti-counterfeit & authentication

Food & beverage





COLLECT MORE LIGHT. KEEP MORE LIGHT. DETECT MORE LIGHT.

This may sound simple, but it's the driving force behind all we do – because it makes for good spectroscopy. Starting with the patented and proprietary volume phase holographic (VPH) grating technology on which the company was founded, we've designed a spectrometer that maximizes efficiency at every step. By keeping more light in the optical path, we reduce stray light within the bench, thus increasing signal while reducing noise.

HERE'S WHAT THIS MEANS FOR YOU:

Higher sensitivity

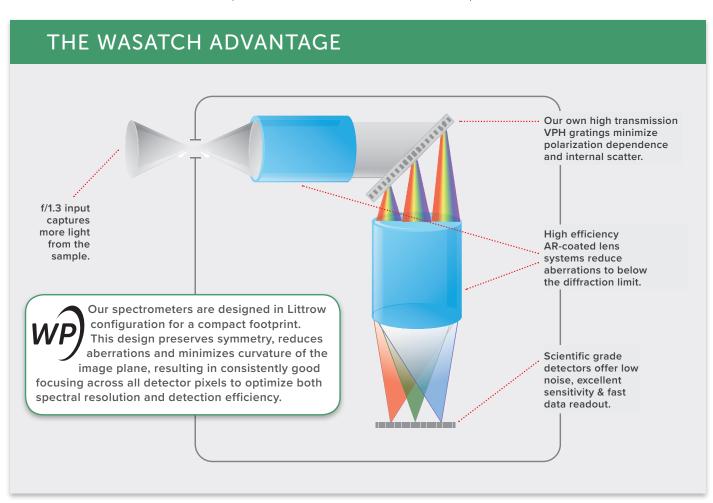
- ➤ Capture brief phenomena, even at low light levels
- Minimize laser exposure for delicate samples
- Significantly reduce your measurement time

Faster acquisition rates

- ► Better spatial resolution in 2D scanning applications
- ▶ Ideal for rapid process monitoring, product scanning
- Allows increased averaging to maximize SNR

Lower limit of detection

- ▶ Detect illicit materials at trace levels in surface residues
- ▶ Identify banned substances & contaminants on or in foods
- ▶ Develop quantitative models down to low concentration



WASATCH PHOTONICS OFFERS YOU MORE

We believe you should have full control and maximum flexibility when designing a Raman spectroscopy system. That's why we offer so many build-to-print options for range, resolution, detector cooling, and sample coupling – backing each with our advice and experience. Start with the excitation wavelength best suited to your sample, then create the system best suited to your needs.

280 405 532 633 785 830 1064 2100 nm

DETECTOR COOLING OPTIONS

Ambient: T_{detector}≈ 25°C

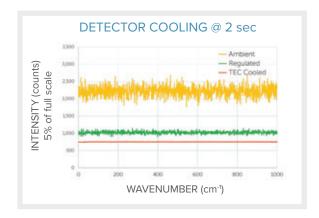
- ► Most cost effective option
- ► Good SNR high throughput detector
- Best for teaching and lab environments

Regulated: T_{detector} = 10°C

- ► Fixed dark noise (better spectral reproducibility)
- ▶ Improved SNR compared to ambient detector
- ▶ Great for variable environments & handheld use

TEC cooled: T_{detector} = -15°C

- ► Lowest dark noise option highly consistent
- ▶ Best SNR for lowest limits of detection
- ▶ Ideal for long integration time measurements



SAMPLE COUPLING OPTIONS

Fiber coupled spectrometer with probe

Our f/1.3 design delivers superior signal and ultra low background when used with our matched NA probes. Simplifies sample alignment in the lab or field.



This 0.36 NA input offers superior signal and freedom in the design of your own sampling optics, from spot size to working distance. Ideal for research and OEMs.



Integrated laser & free-space coupling

Our compact design integrates laser control and optimized coupling optics for best signal to noise. For turnkey lab use and OEM integration.







Your One Stop Raman Shop

Quickly design an optimized Raman system for your application using our plug & play components. Need help choosing the right wavelength or options for your sample? Contact us for advice or testing.

BUILD-TO-PRINT SPECTROMETERS

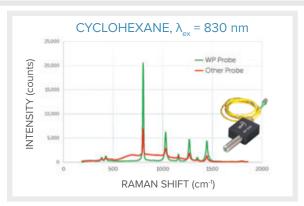


We offer more options for excitation wavelength, range, detector cooling, and sample coupling than anywhere else. Our f/1.3 design offers high throughput and SNR for fast, high-quality spectra.

RAMAN LASERS

Our off-the-shelf and integrated lasers offer high wavelength & power stability for the cleanest, most reproducible Raman spectra.

RAMAN PROBES

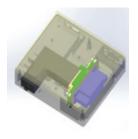


We've designed our own compact, flexible fiber optic probes to be perfectly matched to our f/1.3 spectrometers. Maximimize your sensitivity & SNR and reduce your data acquisition times.

ENLIGHTEN™ SOFTWARE

We've simplified the process of acquiring Raman spectra with our intuitive new interface for desktop, laptop or mobile – provided at no charge.

OEM DEVELOPMENT & SUPPORT



When you're designing a new product, you don't just need a partner, you need a collaborator - one that understands spectroscopy & system design just as well as they understand manufacturing. At Wasatch Photonics, we apply our core strength as innovators to further your product designs and our expertise as scientists to troubleshoot problems along the way. From concept to solution to volume, we can give you more.

WP-BR_RamanProducts_05Jan18





TE LINTELO SYSTEMS BV photonics is our passion!

lasers
fiber optics
optical components
interferometry
opto-electronics equipment
light metrology



Te Lintelo Systems

For more than 30 years Te Lintelo Systems represent prominent suppliers from all over the world for the Benelux countries with well-educated engineers, experience and knowledge. Over the years we became the specialist in the photonics field. Together with our high end suppliers we have the answer for you!

Te Lintelo Systems is your reliable source and long term partner. Service on all levels is for us our daily business. Our experienced team is fully equipped to assist you with finding your best optical business solution.

Let's get in touch!