

# PHOTONICS spectra®

## WHITE PAPERS & APPLICATION NOTES



### Choosing a Portable Raman Spectrometer

A good portable Raman spectrometer bridges the gap in performance, capability, and size between handheld and benchtop Raman spectroscopy. It enables new point-of-use applications in medicine and industry by providing high sensitivity and dependable answers in a compact, cost-effective footprint. These qualities are important to both researchers and OEM instrument developers, particularly for applied research and commercialization of new technologies. Learn what factors are important to consider when choosing the best portable Raman spectrometer for your application.

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**Wasatch Photonics** **TECH NOTE**

### Choosing a Portable Raman Spectrometer

What factors are important to consider, and why Wasatch?

A good portable Raman spectrometer bridges the gap in performance, capability, and size between handheld and benchtop Raman spectroscopy. It enables new point-of-use applications in medicine and industry by providing high sensitivity and dependable answers in a compact, cost-effective footprint. These qualities are important to both researchers and OEM instrument developers, particularly for applied research and commercialization of new technologies. Medical diagnosis, environmental monitoring, and quality and process control in the food chain, energy industry, and manufacturing are all beginning to harness the power of portable Raman spectrometers to provide sensitive and specific answers to difficult questions. Raman is also being used as a complementary diagnostic within other systems, from high-end research tools to machine inspection and surgical instruments.

[Learn more about Raman spectroscopy applications](#)

At Wasatch Photonics, we share your goals. Like you, we want to see the full power and potential of Raman used to save lives, protect our environment, keep our families safe, and improve the world around us. We want that generation to happen in our generation, by providing a line of world-class portable Raman spectrometers that allow research to become reality.

That's why our spectrometers are more sensitive and higher throughput – to give you better spectra in less time. We've made them robust & reproducible enough to give reliable answers in the lab, the field, or the hospital. We offer more configurations than any other Raman spectrometer provider, and help you to find the right fit through our expertise & experience, supported by Raman-specific software tools with full data transparency so that you have full control over data analysis. We care enough to listen to our customers and respond, and we will listen to your needs to help you get the best solution possible.

**Benchtop vs portable vs handheld Raman - What's the difference?**

Benchtop Raman systems are designed for use in the lab, integrating complex optical setups for sample positioning and/or imaging, high-end detectors, and multiple electronic readouts to provide the greatest flexibility for research. They come with sophisticated software that automates signal acquisition and processing, but which may block the user's access to the raw data or their ability to write custom software. They are expensive, large, and heavy, limiting their use to research.

Security | Reliability | Configurability | Ease of use | Data access

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