

Raman Systems

Raman Pocket Spectrometer

Multi-field precision testing, filling on-site high-precision gaps.

- Deep refrigeration technology enables high detection performance
- Highly integrated, portable and easy to use
- Multi-wavelength coverage, suitable for a wide range of scenarios
- High stability and durability



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
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Overview

Introduction:

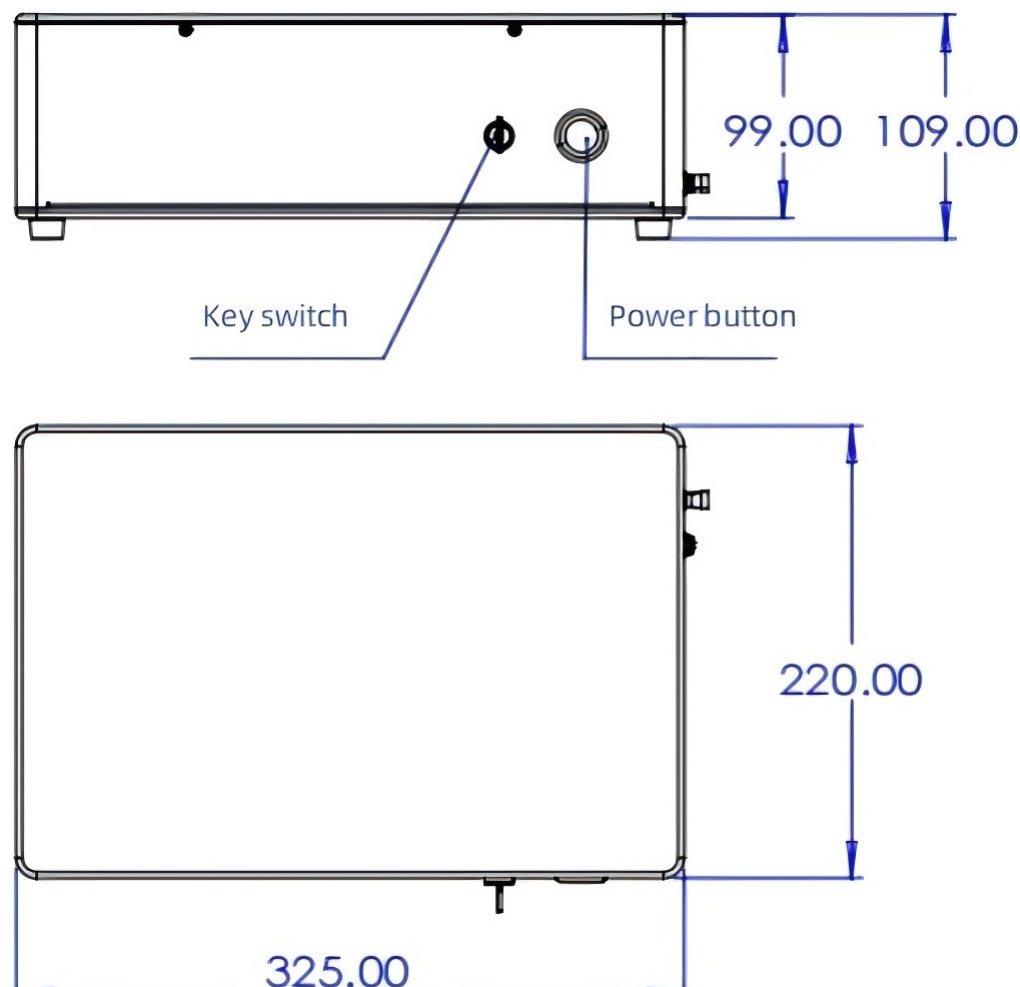
The VenRamPort Series Deep-Cooling Raman Pocket Spectrometer are four professional testing devices launched by Venuslab, with models corresponding to excitation wavelengths of 532nm, 633nm, 785nm, and 1064nm respectively. All models are equipped with a deep cooling function, and their core configurations include wavelength-adapted lasers (e.g., the linewidth of the 532nm laser is $<0.1\text{nm}$, and the linewidth of the 1064nm laser is 0.1nm), fiber optic spectrometers, a variety of sampling accessories (such as probe caps, liquid sample holders, etc.), and Raman signal acquisition software.

The products adopt a unified highly integrated design, featuring excellent portability. They can realize rapid non-destructive testing of samples in different states (solid, powder, liquid, etc.), with objective and accurate testing results. These spectrometers are suitable for multiple scenarios including raw material screening, on-site testing, graphene synthesis reactions, biomedical applications, in vitro diagnostics, and substance analysis and identification. Due to differences in excitation wavelengths among the models, there are slight variations in parameters such as spectral range ($200 - 2500\text{ cm}^{-1}$ to $200 - 3200\text{ cm}^{-1}$) and laser power (adjustable from 0-30 mW to 0-500 mW), which enables them to meet diverse testing requirements.

Features:

- Highly integrated, flexible in application, lightweight, portable and easy to carry
- High stability, with good spectral response stability
- High resolution

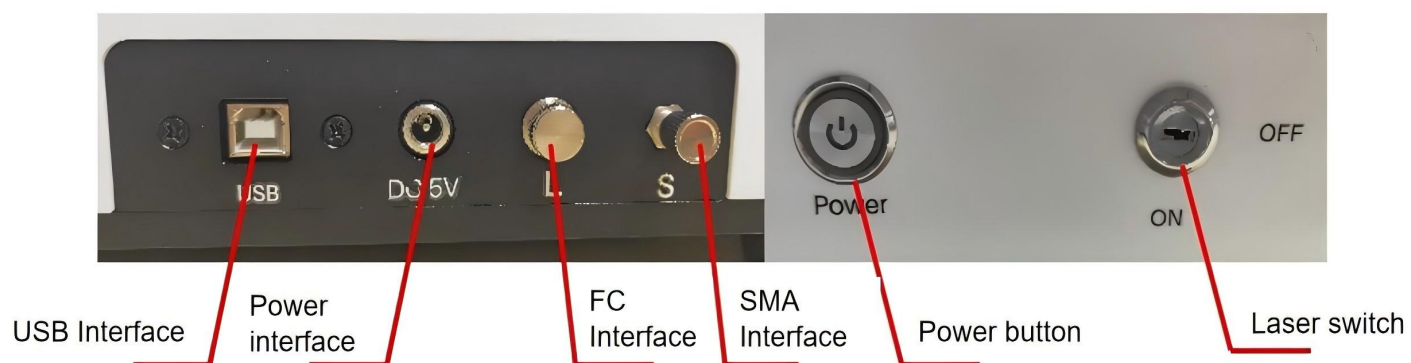
Dimension:



Specifications

Parameter	Raman532 Pocket Spectrometer	Raman633 Pocket Spectrometer	Raman785 Pocket Spectrometer	Raman1064 Pocket Spectrometer
Dark Noise	<3 RMS	<3 RMS	<3 RMS	~10 RMS
Laser Power	Adjustable 0-100 mW	Adjustable 0-30 mW	Adjustable 0-500 mW	Adjustable 0-500 mW
Laser Lifetime	5000 hrs	10000 hrs	10000 hrs	10000 hrs
Weight & Dimension	4.4 kg; 325x220x99 mm	4.4 kg; 325x220x99 mm	4.4 kg; 325x220x99 mm	4.4 kg; 325x220x99 mm

Interface Definition



Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification


Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

Explore Series

Model	Cryogenic Temperature	Spectral Resolution	Spectral Region	Excitation Wavelength
VLPocket 532	-25°C	~8 cm ⁻¹	200-3000 cm ⁻¹	532±0.5 nm, line width < 0.1 nm
VLPocket 633	-25°C	~8 cm ⁻¹	200-3200 cm ⁻¹	633±0.5 nm, line width 0.1 nm
VLPocket 785	-25°C	~8 cm ⁻¹ (std) / ~3.5 cm ⁻¹ (custom)	200-3000 cm ⁻¹ (opt. 200-2000 cm ⁻¹)	785±0.5 nm, line width 0.08 nm
VLPocket 1064	-20°C	~15 cm ⁻¹ (@25µm slit)	200-2500 cm ⁻¹	1064±0.5 nm, line width 0.1 nm

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

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