

XPER RAM M

Intuitive and Modular Portable Macro Raman Spectrometer

- Large-area macro Raman analysis with interchangeable lens options
- Optimized for real-time and in situ reaction monitoring
- Versatile excitation options: 532, 633, and 785 nm
- Modular and flexible optical configuration
- Non-Destructive, Label-Free chemical analysis
- Easy-to-Use interface and alignment



Applications

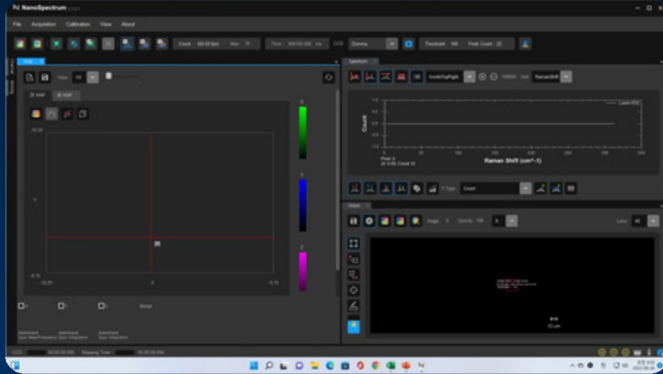
- Material Science – Thin films, nanomaterials, composites
- Life Science – Cells, biomolecules, label-free detection
- Pharmaceuticals – API analysis, impurities, polymorphs
- Cosmetics – Ingredients, stability, skin penetration
- Semiconductors – Contamination, stress, microstructures

XperRAM-M Series Product Selection Guide

Products	XperRAM-M Series	M532-LC (Low-Cost)	M532-HP (High Performance)	M633-HP (High Performance)	M785-HP (High Performance)
Number of Lasers		Single	Single	Single	Single
Laser Wavelength	405 nm	-	-	-	-
	450 nm	-	-	-	-
	488 nm	-	-	-	-
	532 nm	●	●	-	-
	633 nm	-	-	●	-
	785 nm	-	-	-	●
Spectrometer		XPE50N	f/2.8	f/2.8	f/1.4
Grating Options		600,1200,1800,2400	600, 1200,1800,2400	300,600,1800,2400	300,600,1200,1800
Recommended Grating		1800 l/mm	1800 l/mm	1800 l/mm	1200 l/mm (fixed)
Spectrum performance	Spectral Range	50 ~ 4400 cm ⁻¹	50 ~ 3900 cm ⁻¹	50 ~ 2675 cm ⁻¹	50 ~ 3029 cm ⁻¹
	Spectral Resolution (FWHM @ center)	11.5 cm ⁻¹	7.5 cm ⁻¹	5.2 cm ⁻¹	5.8 cm ⁻¹
	Spectral Resolution (cm ⁻¹ /pixel)	2.5 cm ⁻¹	1.9 cm ⁻¹	1.3 cm ⁻¹	1.2 cm ⁻¹
Beam Quality	Max. Power	100 mW	100 mW	40 mW	350 mW
	Laser Spot Size	50 μm	50 μm	50 μm	50 μm
	Signal Collection Area	100 μm	100 μm	100 μm	100 μm
Lens Options	1X Tube Lens	●	●	●	●
	Objective Lens (Olympus)	O	O	O	O
	Immersion Right-Angle Probe	O	O	O	O
	Immersion Ballprobe	O	O	O	O

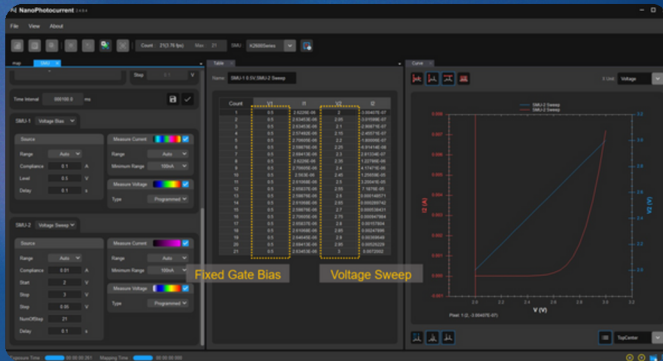
Easy and Intuitive for Everyone: Integrated Raman and Photocurrent Measurement

Nanospectrum



Nanospectrum is a dedicated software for Raman, photoluminescence (PL), and electroluminescence (EL) measurements, offering intuitive control, real-time visualization, and powerful data analysis tools.

Nanophotocurrent



Nanophotocurrent is a specialized software designed for precise photocurrent measurements, enabling synchronized data acquisition, seamless device control, and insightful analysis under various light conditions.

What Makes Our Software Powerful

- Timer:** Measure automatically — by scheduled start or custom time intervals
- Auto-calibration:** Always Accurate — With Automatic Wavenumber Calibration
- Auto-binning:** Smart Binning, Perfect Signal — Automatically
- Auto-scanner calibration:** Perfectly Aligned — With Auto Scanner Calibration
- Dark correction:** Cleaner Signals, Smarter Data — With Dark Spectrum Correction
- Multi-area mapping:** From One Spot to Many — Discover Every Detail
- Find particles:** See It. Find It. Map It — Automatically
- Search Spectrum Library:** Click to Identify — Powered by KnowItAll
- Peak analyzer:** More Than a Peak — Smarter Mapping, Deeper Insights
- Server/Client:** One System Real-Time Collaboration with Nanospectrum
- Live-Focus:** Real-Time Autofocus for Perfect Raman Precision
- Keithley Integration:** Keithley Inside — Electrical and Optical in Perfect Sync

Trusted by Clients Who Value Performance



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