

LabRAM Odyssey

Pioneers from 1968

50 Years
of Raman
Spectroscopy

Best-in-class
Raman Imaging &
High Resolution
Spectrometer!



LabRAM Odyssey basic configuration includes:

- Silver metallic frame (50th Anniversary Special Edition, 50 units numeroted)
- 800 mm focal length achromatic spectrometer
- Open Space Microscope with Koelher illumination in Reflection
- 1 high brightness laser: 532 or 785 nm, 100 mW, TEM₀₀
- 1 Ultra Low Frequency filter: cut-off down to 5 cm⁻¹
- Duoscan achromatic scanning without moving
- SWIFT XS ultra-fast imaging down to 750 μs/spectrum
- FIUV high linearity SynapseEM EMCCD
- High resolution holographic gratings : 1800 & 3000 g/mm
- Fast imaging low density gratings: 300 & 600 g/mm
- XYZ motorized stage with encoders
- Labspec6 64bits including following LabStore apps:
 - EasyNav™ navigation and autofocus software
 - ParticleFinder™ particle analysis software
 - MVA™ built-in Multivariate Analysis
 - KIA HORIBA edition spectral library
- SEM and AFM-Raman ready*
- Lifetime application training support**

* field upgrade to SEM and AFM available

** conditions apply, contact us for more details



LabRAM Odyssey specifications:

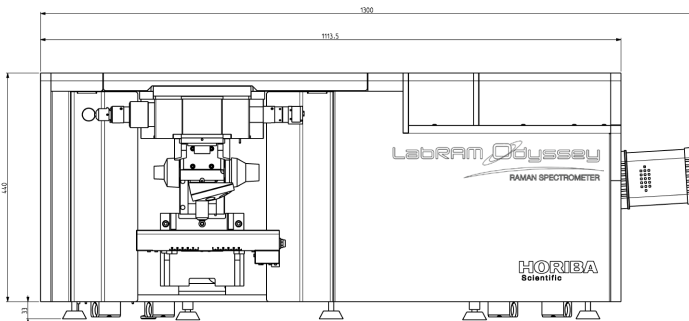
Specifications ¹	Unit	DUV @ 266nm 3000g/mm	VIS @ 532 nm 3000 g/mm	NIR @ 785 nm 1800 g/mm
Spectral Dispersion / Resolution	cm ⁻¹ / pix	< 0.83	< 0.13	< 0.12
Spatial resolution XY	µm	0.8 / 0.5 74XUVI NA 0.65	0.5 / 0.25 100X NA 0.95	0.8 / 0,5 100X NA 0.95
Confocal depth resolution (typical / best)	µm		1.5 / 0.8 100X NA 0.95	2 / 1.5 100X NA 0.95
PhotoLuminescence Spectral range ²	nm	220 - 2100 (achromatic, no change of optics required)		
High wavenumber cut-off ³	cm ⁻¹	Up to 30 000		
Low wavenumber cut-off ³	cm ⁻¹	Down to 5		
Imaging speed	ms/sp	Down to 0.75		
Deep cooled Spectroscopic Multichannel Detector	Front Illuminated UV coated EMCCD	1600 x 200 pixel 16 x16µm ² pixel size		
Dark Current at -60°C	e ⁻ /pixel/s	<0.002		
Dimensions (Width x Depth x Height)	mm	1300 x 1194 x 473		

¹Indicative values with 3 typical Raman lasers, other wavelengths available. Due to range of options and configurations of the system, this information is given as a guide to ultimate performance

Acceptance criteria for a given configuration are available upon request.

²Standard range with EMCCD is 300-1050nm. Requires optional InGaAs array detector to cover 1050-2100nm range

³Laser wavelength dependant



Pictures non contractual
Specification subject to change without prior notice

λ = (400 nm - 800 nm) P ≤ 150 mW
VISIBLE AND/OR INVISIBLE LASER RADIATION
AVOID EXPOSURE TO BEAM
CLASS 3B LASER PRODUCT



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