RTS-mini Confocal Raman System for Upright Microscopes, with Raman Mapping

Model RTS-mini · waveqvanta.com/products/rts-mini-confocal-raman-system-for-upright-microscopes

Compact confocal Raman module that adds micro-area Raman measurement and mapping to an upright microscope.



The RTS-mini is a compact confocal Raman system for micro-area measurement and Raman mapping. It is designed to integrate with most upright microscopes, and configurations are offered both for labs that already have an upright microscope and for those that do not. Raman analysis with the RTS-mini is non-destructive and needs little sample preparation.

Key features

- Compact confocal Raman module that integrates with most upright microscopes
- Available for use with an existing upright microscope or as a complete system including the microscope
- Confocal micro-area measurement with Raman mapping function
- Low-wavenumber capability: 80 cm^{-1} typical, 100 cm^{-1} guaranteed
- Sensitivity verified on the third-order Raman peak of monocrystalline silicon, S/N > 20:1
- Range of configuration options to suit different budgets and applications
- Non-destructive analysis with minimal sample preparation

Specifications

System Type	Confocal micro-Raman system with mapping function
Microscope Compatibility	Integrates with most upright microscopes; also offered with a microscope
Sensitivity	Silicon third-order Raman peak, S/N > 20:1
Low-Wavenumber Capability	80 cm^{-1} typical, 100 cm^{-1} guaranteed
Raman Mapping	Supported

Typical applications

- Polymers and ceramics
- 2D materials such as graphene and monolayer MoS_2
- Nanomaterials research
- Biological samples such as blood, tissue and cells (with a suitable excitation wavelength)
- Dust and particle identification