

VIR-100/200/300

Multi-purpose FT-IR / Fourier Transform Infrared Spectrometers

The VIR series FT-IR spectrometers are designed with flexibility in mind, providing various configurations for the laboratory, the field and customized applications. The most suitable system can be configured by selecting specific accessories matched to the desired applications, additional accessories added as needs change. The unique MultiChamberIR attachment allows a user to select among three measurement modes from transmittance, ATR and DRIFTS in one attachment. Such multi-measurement modes in one attachment are best suited to incoming inspection of a wide variety of samples ranging from solids to powders to liquids for qualitative and quantitative applications.

For even greater flexibility, external connection optics allows the user to install up to three different attachments in one system, selecting the most appropriate application accessory by simply switching the PC controlled optical configuration. A further extension of application capabilities can be achieved by integrating the universal optical base to configure a freely customized configuration by simply placing optimized optical components and sample holders onto the base. Thus even a large sample or an attachment which cannot fit in a standard sample compartment can now be utilized without compromise.

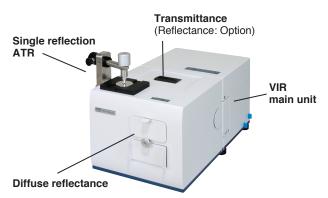


Features

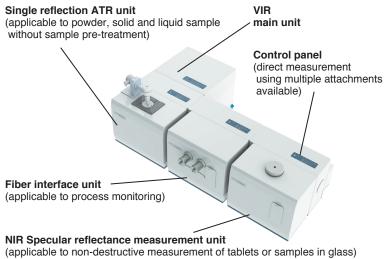
- Three models available: VIR-100, 200 and 300.
- Simple and easy-to-use operations by combination of a variety of attachments and measurement/analysis programs
- Parallel configuration of up to three attachments in one system by utilizing the External connection optics
- Universal optical base allowing users to build customized systems
- ♦ Eco-friendly system including sleep-mode as well as a compact & space-saving design
- ♦ High-speed monitoring using the optional 40 Hz rapid scan
- ♦ Highly reliable data acquisition based on self-diagnostics & validation functions

Combination with MultiChamblR attachment

Up to three measurement modes in one attachment



Combination with External connection optics



A wide variety of measurement attachments

Selection of accessories

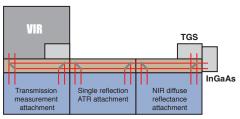
A wide variety of measurement attachments are available. Furthermore, the Universal optical base allows a user to configure freely customized optics by simply putting mirrors and sample holders onto the bench.

* Newly developed External connection optics enables the parallel configuration of up to three attachments in one system.

Name of attachment	Main application / feature		
SmartTech attachment	Qualitative measurement of powder and solid samples		
Fiber interface attachment	Process monitoring		
Long path gas cell attachment	Quantification of gas/vapor samples		
Single reflectance ATR attachment	Analysis of powder, solid and liquid samples		
NIR Specular reflectance attachment	Non-destructive measurement of coatings and reflective samples		
IRT-1000 micro IR attachment	Micro-samples and contaminants		
Autosampler attachment	High throughput analysis of drugs, etc.		
Transmission measurement attachment	Qualitative / quantitative analysis of film samples		
MultiChambIR attachment	Three measurement modes (Transmittance/reflectance, diffuse reflectance and ATR) in one attachment		

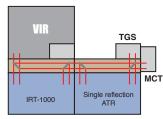
System configuration examples - according to specified purpose

External connection optics

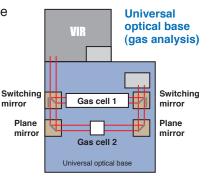


Qualitative, surface and quantitative analysis can be carried out in one system.

Contaminant analysis



A wide range of sample sizes from centimeters down to microns can be easily analyzed.



A wide range of gas concentrations can be applied by attaching gas cells with several different pathlengths.

Specification		VIR-100	VIR-200	VIR-300	
Wavenumber range:		7000 ~ 400 cm ⁻¹	7800 ~ 350 cm ⁻¹	15000 ~ 2200 cm ⁻¹	
Resolution:		4 ~ 16 cm ⁻¹	0.5 ~ 16 cm ⁻¹	0.5 ~ 16 cm ⁻¹	
S/N ratio:		12000:1	15000:1	3000:1	
Detector:	Standard:	DLATGS	DLATGS		
	Option:	M-MCT, N-MCT, W-MCT	InGaAs, InSb, M-MCT, N-MCT, W-MCT		
Beam splitter:	Standard:	Ge/KBr	Ge/KBr	Si/CaF ₂	
	Option:	_	Broadband KBr		
Light Source:	Standard:	High-intensity ceramic source	High-intensity ceramic source	Halogen lamp	
	Option:		Halogen lamp (Auto switching)	High-intensity ceramic source	
Interferometer:	eter: 45° Michelson Interferometer				
Purge:		Available			
Drive mode:		DSP electromagnetic drive,	DSP electromagnetic drive, Mechanical bearing		
		Mechanical bearing	Active DSP control for scan optimization		
Rapid scan:		N/A	40 Hz (Option)		
Communication:		USB 2.0			
Dimension & Weight: 270 (W) x 236.5(D) x 245 (H) mm, 12 kg					



• Specifications are subject to change without notice.

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