

VIR-100/200/300

Versatile 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.



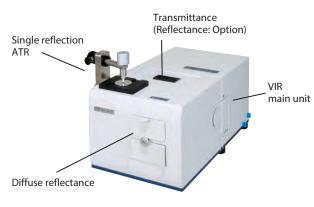
Features

- 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

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Combination with MultiChamblR attachment

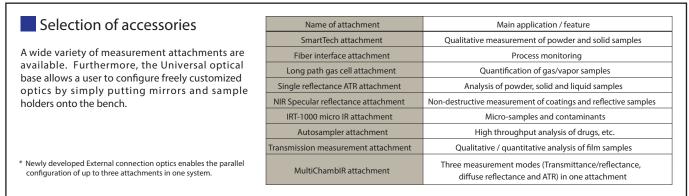
Up to three measurement modes in one attachment



Every series of the series of

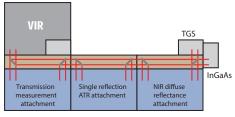
NIR Specular reflectance measurement unit (applicable to non-destructive measurement of tablets or samples in glass)

A wide variety of measurement attachments



System configuration examples

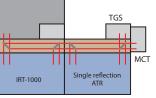
External connection optics



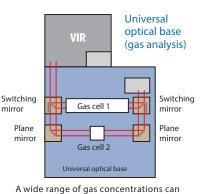
Qualitative, surface and quantitative analysis can be carried out in one system.

- according to specified purpose

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:	Standard:	7,800 ~ 350 cm ⁻¹	7,800 ~ 350 cm ⁻¹	15,000 ~ 2,200 cm ⁻¹	
	Option:	-	12,000 ~ 375 cm ⁻¹	12,000 ~ 375 cm ⁻¹	
Resolution:		0.9 ~ 16 cm ⁻¹	0.4 ~ 16 cm ⁻¹	0.4 ~ 16 cm ⁻¹	
S/N ratio:		18,000:1	22,000:1	4,000:1	
Detector:	Standard:	DLATGS			
	Option:	M-MCT, N-MCT, W-MCT	InGaAs, InSb, M-M0	CT, N-MCT, W-MCT	
Beam splitter:	Standard:	Ge/	KBr Si/CaF ₂		
	Option:	-	Broadband KBr		
Light Source:	Standard:	High-intensity ceramic source		Halogen lamp	
	Option:	-	Halogen lamp (Auto switching)	High-intensity ceramic source (Auto-switching)	
Interferometer:		45° Michelson Interferometer, Corner cube mirror interferometer with auto-alignment mechanism			
Purge:		Available			
Drive mode:		DSP electromagnetic drive,	DSP electromagnetic drive, Mechanical bearing		
		Mechanical bearing	Active DSP control for scan optimization		
Rapid scan:		-	40 Hz (option)		
Auto validation:		-	Standard		
Oparation panel:		Measurement (Sample, Background, Stop), Sleep, Indicator			
Communication:		USB 2.0			
Software:		VIR Measurement program			
Dimension & Weight:		Main unit: 270 (W) x 236.5 (D) x 245 (H) mm, 14.5 kg Power supply unit: 160 (W) x 315 (D) x 92 (H) mm, 3 kg			

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