# 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

#### Combination with MultiChamblR attachment

Up to three measurement modes in one attachment



# Combination with External connection optics

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

## A wide variety of measurement attachments

Selection of accessories	Name of attachment	Main application / feature
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.	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
* Newly developed External connection optics enables the parallel configuration of up to three attachments in one system.	MultiChambIR attachment	Three measurement modes (Transmittance/reflectance, diffuse reflectance and ATR) in one attachment



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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For more information, please contact:

• Specifications are subject to change without notice.