

IR FOURIER SPECTROMETER

IRTracer-100

Excellent sensitivity, speed and resolution

Qualitative and quantitative analysis of objects of the food, pharmaceutical, chemical, automotive industries, as well as solving various research problems



Sensitivity and reliability

- | High sensitivity (signal/noise ratio 60000:1) allows for the analysis of trace amounts of impurities in various samples, despite the low intensity of the bands of interest in the spectrum.
- | The spectral resolution of the IRTracer-100, equal to 0.25 cm^{-1} , provides high accuracy of quantitative identification of bands in the spectrum, especially in the case of gaseous compounds.
- | The interferometer operation optimization system together with internal self-diagnostics ensure stable operation of the device.

Study of the kinetics of fast reactions

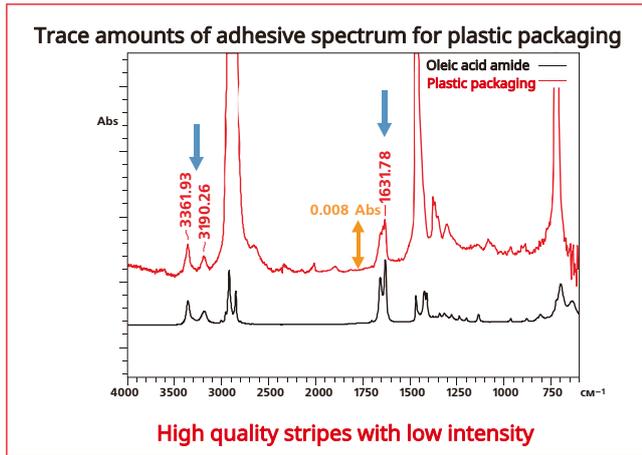
- | The fast scan mode allows recording up to 20 spectra per second, which is especially important when studying the kinetics of fast reactions, the time of which can be several seconds.

LabSolutions IR Software

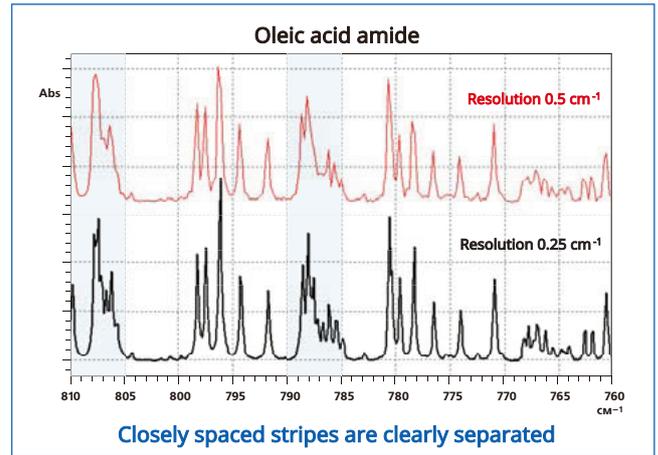
- | LabSolutions IR software, in addition to standard functions, allows you to easily perform measurements in photometric and kinetic (optional) modes. It includes a unique spectrum search algorithm, as well as a library containing about 12,000 spectra, which greatly facilitates the task of substance identification.

Application

High sensitivity — signal/noise ratio 60000:1



High precision spectra - resolution 0.25 cm⁻¹



Technical specifications

Interferometer	A]MXY'gcb hmdY k]h\ ' \$\$ Ub['Y'cZ]bV]XYbWZ'Yei]ddYX'k]h\ 'UXj UbWX'XrnbUa]W]h b]b['gng]hYa žgYU'YX'fk]h\ 'i a]X]m]b]XYI]b[Ł
Cdh]W]gng]hYa	Single-beam
6YUa 'gd`]hYf	<ul style="list-style-type: none"> • KVg plate with germanium coating for mid-IR range (standard) • SiC plate with germanium coating for mid-IR and far-IR range (optional) • CaF₂ plate with silicon coating for near-IR range (optional)
FUX]Uh]cb'gci fW	<ul style="list-style-type: none"> • Ceramic for mid- and far-IR range (standard) • Halogen lamp for near-IR range (optional)
Detectors	<ul style="list-style-type: none"> • Heat-stabilized DLATGS for mid- and far-IR range (standard) • MCT (HgCdTe), cooled by liquid nitrogen, for mid-IR range (optional) • InGaAs for near-IR range (optional)
GdYV]FU' fUb[Y	7800-350 cm ⁻¹ ; 12500-240 cm ⁻¹ (optional)
9l hYbg]cb	<ul style="list-style-type: none"> • 0.25; 0.5; 1; 2; 4; 8; 16 cm⁻¹ (mid and far IR) • 2, 4, 8, 16 cm⁻¹ (near IR)
G] [bU]!hc!bc]gY fUh]c	60000:1 and higher (4 cm ⁻¹ , 1 min, 2200 cm ⁻¹ , peak to peak)
A]ffcf'a cj Ya Ybh'gdYYX	<ul style="list-style-type: none"> • 4-step: 2.0; 2.8; 5 or 9 mm/s; • 10, 20, 30 or 40 mm/s for fast scan mode
7i j YhY' Wza dUfa Ybh	200 x 230 x 170 mm, with automatic attachment recognition function
GcZk UFY	Labsolutions IR with built-in library containing about 12000 spectra



SHIMADZU Eco-label: Power consumption reduced by 34% compared to previous model

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