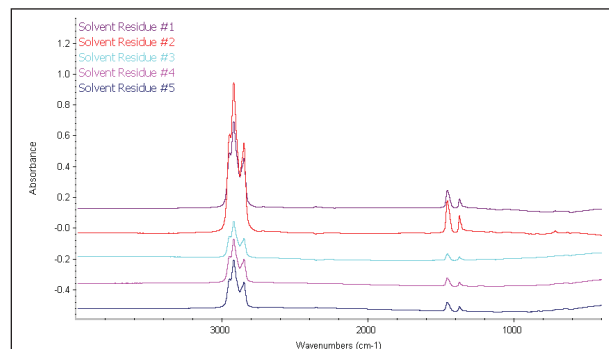


X, Y Autosampler – Transmission and Reflectance Automated Sampling in Microplate Format



PIKE Technologies have developed a special silicon well plate excellent for transmission analysis. This unique 96 well plate provides full mid-IR transmission spectra and is sufficiently durable for extended usage. For diffuse reflection measurements a cavity style plate with standard format placement of samples is available. Please contact us for other configurations.



The quality of FTIR spectra collected on the X, Y Autosampler is excellent – shown in the spectra above for solvent residue samples

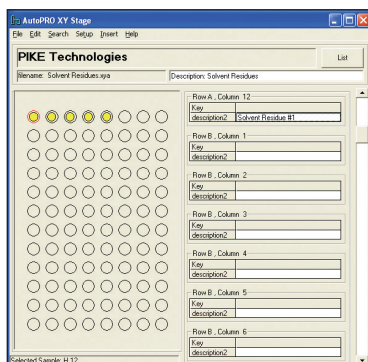
FEATURES OF THE X, Y AUTOSAMPLER

- Complete hardware and software package for automated analysis of industry standard 24, 48, or 96 well plates. Special plate configurations are available.
- Diffuse reflectance of powdered samples or specular reflectance sampling for reaction residues
- Gold coated optics version for highest performance mid-IR and NIR sampling
- Optional transmission sampling with integrated InGaAs or DLaTGS detector and transmission sampling plates
- In-compartment location, purgeable optical path

The PIKE Technologies X, Y Autosampler is designed around standard 24, 48 or 96 well microplate architectures – ideal for high efficiency sample loading and FTIR analysis. Applications include high throughput analysis of liquid residues and chemical reactions, powdered samples, and automated diffuse reflectance analysis. The X, Y Autosampler is available in standard all reflecting optics and with gold-coated optics for highest performance mid-IR and optimized NIR sampling.

The autosampler features an X, Y stage with both axes driven by high precision stepper motors for speed and reproducibility. Programming and control of the X, Y Autosampler is done through PIKE Technologies AutoPRO software, and is compatible with current FTIR systems.

The optical design is based upon a precision ellipsoidal reflector and the size of the spot illuminated at the sample is approximately 2 mm – ideal for up to 96 well configurations.



X, Y AUTOSAMPLER SPECIFICATIONS

Optics	Elliptical – 3X Beam Demagnification
Resolution	13 microns per step
Accuracy	25 micrometers per cm
Backlash	< 75 micrometers

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
047-20XX	X, Y Autosampler – Diffuse Reflectance Configuration <i>Includes: Motion Control Unit (85-265 VAC), AutoPRO Software and 96 Well Diffuse Reflectance Sampling Plate</i>
047-60XX	X, Y Autosampler – Diffuse Reflectance Configuration with Gold-Coated Optics <i>Includes: Motion Control Unit (85-265 VAC), AutoPRO Software and 96 Well Diffuse Reflectance Sampling Plate</i>
073-90XX	X, Y Autosampler – Diffuse Reflectance/Transmission Configuration <i>Includes: Motion Control Unit (85-265 VAC), AutoPRO Software, integrated DLaTGS detector for transmission analysis, 96 Well Diffuse Reflectance Sampling Plate and 96 Well Transmission Sampling Plate</i>
073-60XX	X, Y Autosampler – Diffuse Reflectance/Transmission Configuration with Gold-Coated Optics <i>Includes: Motion Control Unit (85-265 VAC), AutoPRO Software, integrated InGaAs detector for transmission analysis, 96 Well Diffuse Reflectance Sampling Plate and 96 Well Transmission Sampling Plate</i>

Notes: Replace XX in part number with code for your spectrometer model found on the last page of this catalog. For other options please contact us. Your spectrometer must be capable of interfacing with an external detector.

Options

PART NUMBER	DESCRIPTION
073-9110	96 Well Diffuse Reflectance Sampling Plate
073-9130	96 Well Transmission Sampling Plate