FT/IR-4X

Fourier Transform Infrared Spectrometer



Specifications

[Hardware]		
Measurement wavenumber range:		7800 to 350 cm^{-1}
Measurement wavenumber extended range *1 (optional):		11500 to 375 cm^{-1} (NMIR-4X) 6000 to 220 cm^{-1} (MFIR-4X-N) 6000 to 50 cm^{-1} (MFIR-4X-W)
Resolution:		0.4, 0.5, 1.0, 2, 4, 8, 16 cm^{-1}
Signal-to-noise ratio *2:		35000 : 1
Detector:		
	Standard:	DLATGS (with peltier temperature control)
	Optional:	MCT-N, MCT-M, MCT-W, MCT-PV, InGaAs, Broad band DLATGS *3, PAS (PC switching, User exchangeable)
Beam splitter:		
	Standard:	Ge/KBr
	Optional:	Broad band KBr, Mid-far IR broad band (not interchangeable)
Light source:		
	Standard:	High-intensity ceramic source
	Optional:	Halogen lamp (PC switching)
Interferometer:		45 degrees Michelson interferometer with corner-cube mirror, sealed structure (KRS-5 window), auto-alignment mechanism, DSP control
Purging:		
	Standard:	Sample/detector compartment
	Optional:	Interferometer
A/D converter:		24 bit A/D converter
Drive method:		Mechanical bearing, electromagnetic drive
Drive speed:		1, 2, 3, 4 mm/sec. Rapid scan: 32, 64 mm/sec.
Rapid scan *4 (optional):		80 spectra/sec. (16 cm^{-1} resolution)
Communication:		USB 2.0
Vibration-proof:		Vibration-proof design mounting
iQX accessory		Standard
Start button		Standard

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Dimensions and weight	386 (W) × 479 (D) × 254 (H) mm, 18 kg
Required power	AC 100 to 240 V, 50/60 Hz, maximum 50 VA
Operation environment	Temperature: 17 to 27 °C / humidity: less than 70 %

[Data processing]

Software:	JASCO Spectra Manager Ver.2.5 *5
Operating system:	Windows 10 Pro (64-bit)

*1 One of three options (near-mid IR region, mid-far IR region) should be selected when extending the measurement wavenumber range.

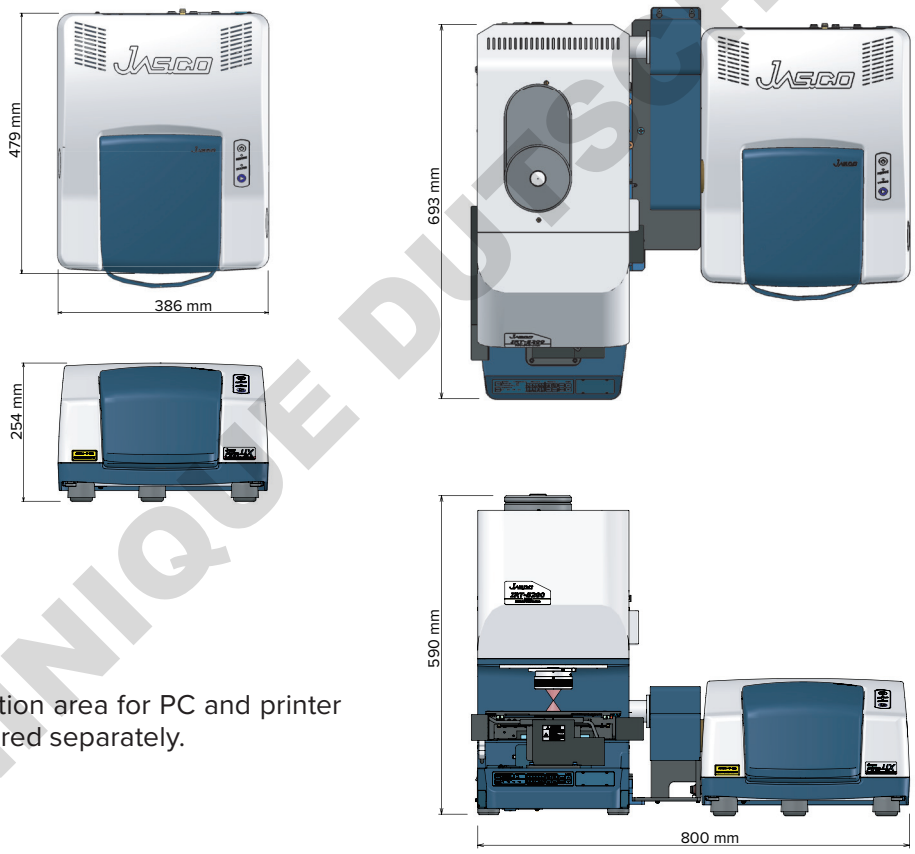
*2 Measurement condition: 4 cm^{-1} resolution, 1 minute accumulation, near 2200 cm^{-1}, P-P

*3 Broad band DLATGS is installed instead of DLATGS as standard detector when selecting the far IR extension option.

*4 Performance of rapid scan function was evaluated when installing Ge/KBr beam splitter. MCT detector is also required.

*5 JASCO can provide Spectra Manager Ver.2.5 CFR which is compliant with FDA 21 CFR PART 11.

<Instrument dimensions>



* Installation area for PC and printer is required separately.

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ISO-9001 ISO-14001 CERTIFIED

Products described herein are designed and manufactured by ISO-9001 and ISO-14001 certified JASCO Corporation

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