

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

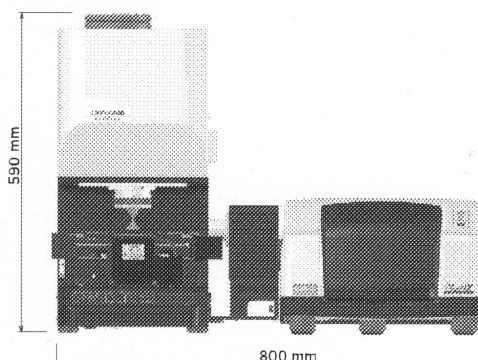
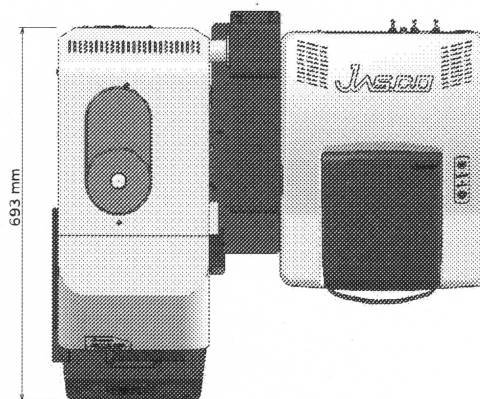
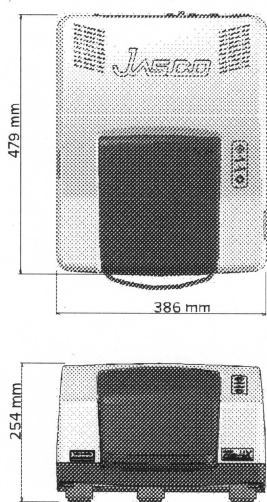
Standard

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]

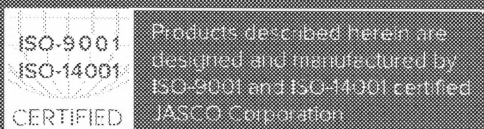
Software: JASCO Spectra Manager Ver.2.5 *5
 Operating system: Windows 10 Pro (64-bit)

- *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.



Signature

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