

HES2003 Spectrometer

Technical Specifications

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Changes are periodically made to the product and these will be incorporated into new additions of the manual.

1. What's the product?

The HES2000 spectrometer is a Static Fourier Transform spectrometer providing high étendue measurements. Étendue is commonly referred to as throughput of a spectrometer. It is a measure of the ability of a spectrometer to capture and utilise individual photons from a particular area of a target or field of view. A more complete description of this can be found on our website – [It's all about throughput](#).



2. Specification table

The specifications given below are for the standard HES2003, but the unit is highly customizable. Please contact us at info@is-instruments.com for further details.

Model	HES2003
Operating range	< 200 – 2900 cm^{-1}
Resolution*	~ 3.5 cm^{-1} over whole range per Fourier bin (To resolve two lines 3 bins are required)
Fibre coupled	Custom ferrule adapter
Fibre aperture	3 mm
Fibre NA	0.22
Detector	Andor iVac

*Unlike most other systems the HES spectrometers are linear in wavenumber space, meaning you won't lose resolution as you move away from the starting wavelength. Unlike conventional spectrometers there is no slit required so no blurring is observed.