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Microfocus Beam Condenser P/N's GS02560/GS02561



The Microfocus Beam Condenser is a high performance 4x beam condenser specially designed for use with the DC3 Diamond Compression Cell (P/N GS02555). The simple two lens linear optical system ensures easy alignment and high throughput over a wide working wavelength range. The Microfocus beam condenser can be supplied with either ZnSe lenses (P/N GS02560) or with KRS-5 lenses (P/N GS02561). (KRS-5 allows an extended range in the mid-infrared to circa 350 cm^{-1}). Lens upgrade kits (P/N GS02570 KRS-5 lens kit, P/N GS02571 ZnSe lens kit) are available should you wish to change from one version to the other.

The Microfocus Beam Condenser is optically matched for the DC3 Diamond Compression Cell (P/N GS02555), which locates accurately and reproducibly in the beam condenser using spring ball catches. The whole accessory combination (DC3 in the Microfocus beam condenser) is mounted into a spectrometer sample compartment via a standard Specac Benchmark™ baseplate. This allows for optimum stability in all FTIR spectrometers.

A DTGS detector is sufficiently sensitive for measurement of the signal through the 1.5mm diameter aperture of the DC3, because of the 4x beam condensing effect offered by the Microfocus Beam condenser with this system. However, if a more sensitive liquid nitrogen cooled MCT detector is available, then the signal detection and spectral results will be enhanced by use of the Microfocus Beam condenser with the DC-3 diamond compression cell, rather than using the DC3 alone.

As a kit of parts the DC3 and **ZnSe** microfocus beam condenser are available as P/N GS02556.
As a kit of parts the DC3 and **KRS-5** microfocus beam condenser are available as P/N GS02557.