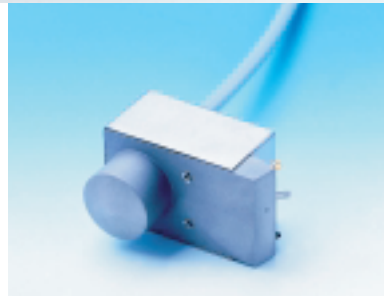
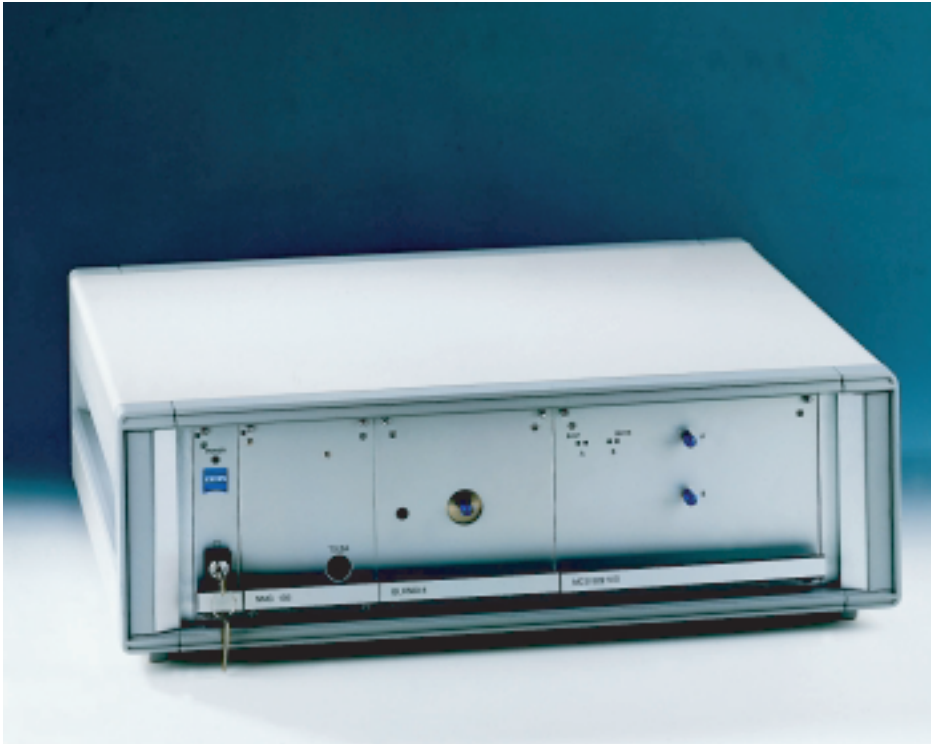


M C S 5 2 2

D o u b l e B e a m S p e c t r o m e t e r M o d u l e



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P r o d u c t I n f o r m a t i o n



Construction

The double beam spectrometer system MCS 522, is designed for operation in the Visible or UV-Visible spectral range. It is available for either two sample beams or one sample and one reference beam. The heart of the MCS 522 are two permanently aligned Monolithic Miniature Spectrometers (MMS) which are used as parallel polychromators.

Features and Benefits

- Simultaneous parallel measurement with 2 spectrometers ensures stable measurement over long time periods by the ratio technique
- Fast double beam measurement without any switching time loss
- High stability of spectral data by using a xenon flash source over a wide spectral range
- High intensities by high flash energy for stable data in color measurement on diffusely reflecting samples (with integrating sphere)
- Integration in the proven ASPECT PLUS software with all its versatile capabilities
- Simultaneous, flash-synchronised parallel measurement with 2 spectrometers to compensate for spectral variations of individual flashes.

Specification

Designation:	MCS 522 UV-VIS (MMS polychromator)	MCS 522 VIS (MMS polychromator)
Wavelength range:	200 nm... 730 nm	320 nm ... 950 nm 380 nm ... 1050 nm (NIR enh.)
Spectral pixel spacing:	2.2 nm	3.2 nm
Wavelength resolution:	» 7 nm (Rayleigh criterion)	»10 nm (Rayleigh criterion)
Wavelength accuracy:	± 0.5 nm	± 0.5 nm
Wavelength reproducibility:	± 0.1 nm	± 0.1 nm
Ordinate range:	- 0.3 ... 3.0 AU	- 0.3 ... 3.0 AU
Photometric accuracy:	± 0.02 AU (in range 0...1,5 AU)	± 0.02 AU (in range 0...1,5 AU)
Noise:	< 0.0002 AU rms	< 0.0002 AU rms
Stray light:	0.2 % at 340 nm (measured with D ₂ E-lamp and NaNO ₂ -filter)	0.1 % at 500 nm (measured with halogen lamp and RG 695-filter)
Detector:	Photodiode array HAMAMATSU	Photodiode array HAMAMATSU
Amplitude resolution:	16 bit	16 bit
AD conversion time:	10 µs/ diode value	10 µs/ diode value
Fibre connector:	SMA standard	SMA standard
Dimensions:	530 x 422 x 162 mm (WxDxH)mm	

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