



DTMS300 Double Monochromator

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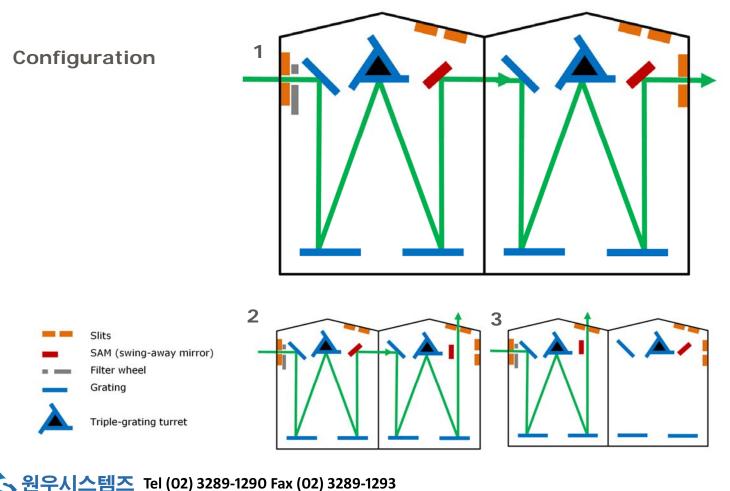
DTMS300 Monochromator

For those applications where the scattered light performance of a single monochromator is not sufficient, the excellent optical performance and flexibility of motorised slit of the TMS300 may still be experienced with two such sub-units used in tandem constituting thereby the DTMS300 double monochromator.

The DTMS300 maintains the flexibility of configuration and ability to cover a wide spectral range of the DTMc300, within a single scan, but includes the added advantage of internal motorised slits to permit the maintenance or selection of measurement bandwidth throughout the spectral range of use.

Compatible with the full range of sources, detectors and accessories of the Bentham portfolio, in the additive dispersion mode, the DTMS300 monochromator is at the heart of many of our light measurement solutions, particularly those incorporating a UV component. Key features:

- Double monochromator composed of two 300mm focal length monochromators in Czerny-Turner configuration arranged for additive dispersion
- Each single monochromator accommodates up to three diffraction gratings permitting single–scan measurement over wide spectral range included in range 200nm-50µm
- Up to two entrance ports, one exit port on first monochromator (single mode) and up to two exits on second monochromator (double mode) with automated mirror-based port selection for use of multiple input/ output/ detector configurations
- Internal motorised entrance and exit slits
- Fully automated through USB 2.0 interface

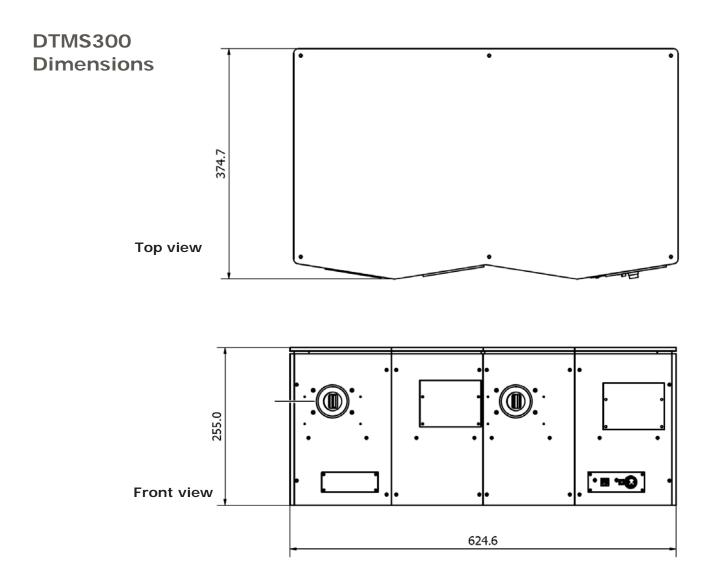


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Specification

Optical Layout	
Configuration	Pair symmetrical Czerny Turner monochromators arranged for additive dispersion
Focal length	Total focal length: 300mm
Grating Mount	Triple grating turret
Number of Gratings	1-3
Grating size	68 x 84mm
Aperture ratio	f/4.1 (at all grating angles)
Number of Entrance/ exit ports	1/2 or 2/1
Opto-Mechanical	
Grating drive	Worm and wheel driven turret
Mechanical resolution drive	0.000072°/ step
Slit type	Fixed, micrometer or motorised variable
Slit Width & Height	10μm-10mm (W) x 20mm (H)
Order sorting	6/8-position filter wheel (includes shutter)
Filter Size	25mm diameter
Optical Performance (quoted for 1200 g/mm gratings)	
Spectral Range	Within range 200nm-50µm
Linear Dispersion	1.35nm/mm
Wavelength accuracy	0.2nm
Wavelength reproducibility	± 0.05nm
Resolution full/ reduced slit height	± 0.3/ 0.1nm
Stray light rejection at 2.5 FWHM	10^-5
Wavelength acquisition speed	1000nm/s
Automation	
Computer interface	USB, IEEE as option
Software Control	Benwin+/ SDK
Electrical/ Mechanical	
Overall dimensions	316W x 354D x 209H
Optical height (mm)	115mm
Construction	Single machined casting
Weight	Approx. 14 kg
Power supply	Mains input 110/220V 50/60Hz





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