方全有限公司
Rapitech Enterprise Co.,Ltd.

單光儀
Monochromator

Spectral Products

DK480 單光儀

½ Meter Computer - Controlled Monochromator / Spectrograph

Features

- Connects to any computer via RS232 or IEEE-488
- Motorized Slits
- Triple-grating turret allows high efficiency scanning across a broad spectral range.
- May be factory configured as a monochromator or spectrograph.
- Scans in both directions and with Constant Spectral Resolution (CSR)
- Integrates with Spectral filter wheel for automatic filter switching.
- Suitable for fluorescence and absorption studies, detector characterization Specification, thin film measurements, etc

Specifications

Design	Czerny-Turner. Triple-grating turret standard
Focal Length	480mm
f/#	7.8
Wavelength Drive	Worm and wheel with computer control. Bidirectional.
Wavelength Precision and Reproducibility	0.007nm standard.(with 1200 g/mm grating)
Wavelength Accuracy	±0.3nm standard (with 1200 g/mm grating)
Scan Speed	1 to 1200nm/minute (with 1200 g/mm grating)
Stray Light	<0.01% at 220nm(NaI)
Slits	Unilateral, computer controlled, curved entrance and straight exit standard
Reciprocal Dispersion	1.60nm/mm(with 1200g/mm grating)
Max Resolution	0.03nm(with 1200 g/mm grating)
Grating	One to three gratings. (68 x 68mm standard, 68 x 84mm optional) must be purchased. See Appendix A for options.

Specifications

Grating	One to three gratings. (68 x 68mm standard, 68 x 84mm optional) must be purchased. See Appendix A for options.
Software	Demonstration control program and LabView driver included.
Power	100-240V, 50/60Hz, 60W
Interface	RS232 standard
Weight	45 lbs.
Warranty	One year
Options	*DKBS-Bi-lateral slits *DKGPIB-IEEE-488 communication interface(internal) *DK2400 and palm pilot- Hand-held *IR480-Gold optics *DKPURGE-Purge port *Interface cables
Ordering information	Please indicate product number plus description when ordering.
DK480	½ meter Monochromator
DKSP480	½ meter spectrograph w/flat field and focus adjustment
DKSP480I	Imaging ½ meter spectrograph

Standard Ruled Grating for installation in Digikrom DK series Monochromatores / Spectrographs

Part #	Ruling (G/mm)	Peak (nm)	Range (nm)	Peak % T
AG2400-00240-686	2400	240	180 - 680	70
AG1200-00200-686	1200	200	180 - 450	65
AG1200-00250-686	1200	250	180 - 460	70
AG1200-00300-686	1200	300	200 - 750	72
AG1200-00500-686	1200	500	330 - 1000	83
AG1200-00600-686	1200	600	400 - 1500	80
AG1200-00750-686	1200	750	480 - 1500	85
AG1200-01000-686	1200	1000	550 - 1500	75
AG0600-00500-686	600	500	350 - 1300	80
AG0600-01250-686	600	1200	800 - 3000	85
AG0600-01600-686	600	1600	950 - 3000	93
AG0300-00500-686	300	500	310 - 1100	80
AG0300-02000-686	300	2000	1200 - 4000	88
AG0300-02500-686	300	2500	1500 - 6000	88
AG0300-03000-686	300	3000	1800 - 6000	80
AG0150-00500-686	150	500	320 - 980	72
AG0150-04000-686	150	4000	2500 - 9000	93
AG0075-08000-686	75	8000	5000 - 15000	82
AG0050-00600-686	50	600	400 - 1200	78
AG0050-12000-686	50	12000	7500 - 20000	82

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