方全有限公司
Rapitech Enterprise Co.,Ltd.

單光儀
Monochromator

Spectral Products

CM110 單光儀

Compact 1 / 8 Meter Computer - Controlled Monochromator / Spectrograph

Single piece base construction, direct grating drive, and anti-backlash gearing ensure this unit is rugged and stable enough for demanding applications. Loaded with Spectral Optics and able to hold two high quality gratings, the CM110 is ideal for spectrometry in the UV to IR spectrums. Each instrument is calibrated and certified prior to delivery and comes with easy-to-use software.

Specifications

Design	Czerny-turner, dual-grating turrets
Focal Length	110mm
F/#	3.9
Beam path	Straight through standard Right Angle provided on request.
Wavelength drive	Worm and wheel with Microprocessor control and anti-backlash
Gearing	Bi-directional. Usable in positive or Negative grating orders.
Wavelength Precision	0.2nm
Wavelength Accuracy	+/- 0.6nm
Slewing Speed	> 100nm/second
Stray Light	< 10-5
Slits	125mm, 0.15mm, 0.30mm, 0.60mm, 1.2mm, 2.4mm x 4mm
Max Resolution	<1nm w/1200gmm grating and .125mm slit For other sizes, consult Spectral Products
Gratings	One to two gratings (30 x 30mm) must be purchased
Software	Demonstration control Program and LabView driver included.
Power	UL listed 110/220V power pack
Interface	RS232 Standard
Warranty	One Year
Options	Hand-Held controller module with function keys and display for local control IEEE-488 Interface Interface cables Gold Optics
Ordering Information	Please indicate product plus the description when ordering.
CM110	1/8 meter Monochromator
CMSP110	1/8 meter Spectrograph

CM Series Options and Accessories

Specifications

DK1201	Hand-held control module, 2 line X 20 character LCD display. Allows Local operation of CM110/112 Monochromators and CMSP110/112 Spectrographs.
CMGPIB	IEEE-488/GPIB option for parallel Interface operation of CM110/112 Monochromators and AB300 series Automated filter wheels.
CMGPIB-220V (220Vac Input)	IEEE-488/GPIB option for parallel Interface operation of CM110/112 Monochromators and AB300 Series Automated filter wheels.
CMSP-TO-CM	Attachment to allow CMSP Spectrograph to operate as a monochrometer.
AB200	Single filter carrier that mounts Directly between CM unit and Accessories.
IR110	For use with CM110. Infrared (gold) coatings on CM110 mirrors. Enhances transmission by up to 40% between 600 and 1100 nm. Not suitable for work below 600nm.
IR110SP	Same as above, for use with CMSP110
IR112	For use with CM112. Infrared (gold) coatings on CM112 mirrors. Enhances transmission by up to 80% between 600 and 1100 nm.
IR112SP	Same as above, for use with CMSP112
DK12AT	RS232 Cable for AT style computer
DK12PS	RS232 Cable for PS2 style computer
DK12MA	RS232 Cable for MAC style computer
Special Slit Sizes	DKFS010 Pair, 10um slits DKFS020 Pair, 20um slits DKFS025 Pair, 25um slits DKFS050 Pair, 50um slits

Standard Ruled Gratings

Size + 30 x 30 mm

Spectral part #	Ruling g/mm	Peak (nm)	Range (nm) @ >30% T	Peak % T
AG2400-00240-303	2400	240	180-680	70
AG1200-00200-303	1200	200	180-450	65
AG1200-00300-303	1200	300	200-750	72
AG1200-00500-303	1200	500	330-1500	82
AG1200-00600-303	1200	600	400-1500	80
AG1200-00750-303	1200	750	480-1500	85
AG0600-00500-303	600	500	350-1300	80
AG0600-01250-303	600	1200	800-3000	85
AG0300-00500-303	300	500	310-1100	80
AG0300-02500-303	300	2500	1500-6000	88
AG0150-00500-303	150	500	320-980	72
AG0150-04000-303	150	4000	2500-9000	93
AG0075-01700-303	75	1700	1100-2800	85
AG0075-08000-303	75	8000	5000-15000	82
AG0045-01750-303	45	1750	1100-3000	78

* Ruled gratings blazed at different wavelengths and Holographic gratings are available on request-call for prices and availability. Response curves also are available upon request.

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