



DK240 1/4m Monochromator

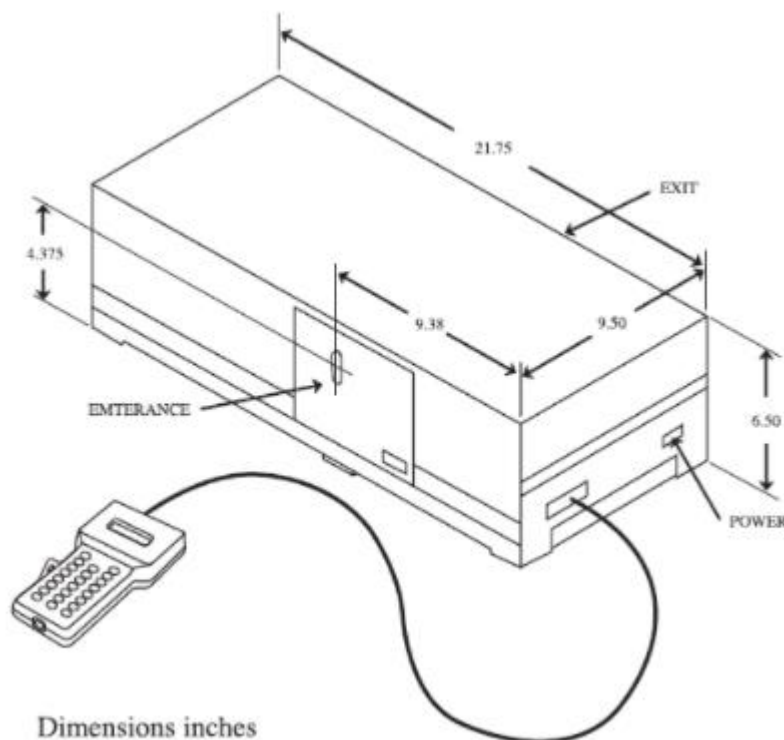
DK240: Direct Digital Drive/Constant Spectral Resolution



- Connects to any computer via RS 232 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 SP filter wheel for automatic filter switching.
- Suitable for fluorescence and absorption studies, detector characterization, thin film measurements, etc.

The Digikröm DK240 is a complete computer integrated solution. Easy to use commands control the triple grating turret, motorized slits, and optional motorized filter wheel for quick and easy sorting. Instrument mode can be set for constant spectral resolution (CSR), where the slit width is automatically modified to compensate in the change in dispersion with wavelength to maintain constant spectral bandpass.

Rugged cast construction, A-Thermal design, and SP direct grating drive make this unit the most repeatable and reliable in its class. Each instrument is calibrated and certified prior to delivery.



Model	DK240
Design	Czerny-Turner : standard Triple grating turrets
Focal Length	240mm
f/#	3.9
Reciprocal Dispersion	3.2nm/mm (with 1200g/mm grating)
Wavelength Drive	Worm and wheel with micro-processor control and anti-backlash gearing. Bi-directional. Usable in positive or negative grating orders.
Wavelength Precision	0.01nm (with 1200g/mm grating)
Wavelength Accuracy	± 0.30nm standard (with 1200g/mm grating)
Scan Speed	1 to 1200nm/min (with 1200g/mm grating)
Stray Light	< 0.01% @220nm (NaI)
Slits	standard: Unilateral - computer controlled - curved entrance - straight exit Width: 10µm - 3000µm Height: 2mm - 20mm
Max Resolution	0.2nm (with 1200g/mm grating)
Gratings	1 to 3 gratings (68 x 68mm standard) (68 x 84mm optional) must be purchased. See DK gratings for more options
Software	Demonstration control program and LabView driver included
Power	100 - 240V 50/60Hz 60W 220/230/240 50/60Hz @0.5A optional
Interface	RS 232 standard
Weight	35lbs
Warranty	1 year
Options	<ul style="list-style-type: none"> - DKBS: Bi-lateral slits - DKGPIB: IEEE-488 communication interface (internal) - DL2400 and handheld controllers for local control - IR240: Gold optics - DK2PORT: Bifurcated fiber bundle for attaching 2 devices to 1 port - AB300: Automated 6 position filter wheel <p>See accessories for more options</p>