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300 - 800nm, Manual Mini-Chrom Monochromator

Stock **#37-598** **4 In Stock**

- 1 + **C$3,360**.00

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Qty 1-4	**C$3,360.00** each
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General

Type of Optics:
2cm^2 Square Holographic Grating

Type:
Monochromator

Model Number:
Model C

Physical & Mechanical Properties

Slit Width (µm):	300.00
Width (mm):	59.00
Weight (kg):	0.7
Height (mm):	49.00
Length (mm):	140.00
Slit Height (mm):	4

Optical Properties

Resolution (nm) for 100µm Slit Width:	0.73
Resolution (nm) for 150µm Slit Width:	1.09
Resolution (nm) for 300µm Slit Width:	2.18
Resolution (nm) for 600µm Slit Width:	4.36
Stray Light (%):	≤0.003
Wavelength Reproducibility (%):	±0.15
Wavelength Readability (nm):	0.2
Wavelength Accuracy (%):	±0.2 of λ
Wavelength Range (nm):	300 - 800
Linear Dispersion (nm/mm):	7.16 (center of range)
Aperture (f/#):	f/3.9
Blaze Wavelength (nm):	500.00
Focal Length FL (mm):	74.00
Groove Density (grooves/mm):	1800
Damage Threshold, By Design:	40 Watt/cm^2

Threading & Mounting

Mounting Threads:	¼-20 Mounting Holes

Environmental & Durability Factors

Operating Temperature (°C):	-20 to +80

Regulatory Compliance

RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 247:	Compliant

Product Details

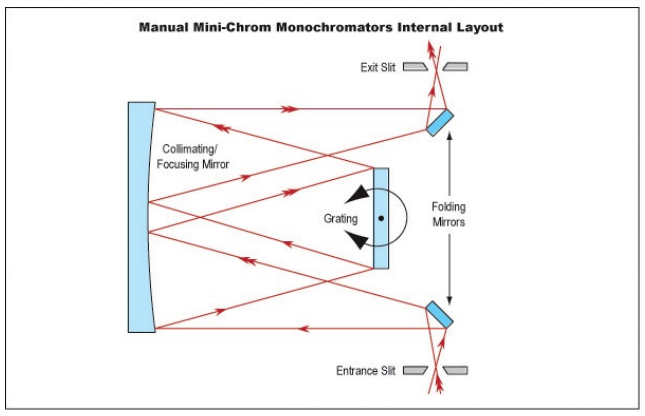
- 6 Choices of Wavelength Ranges
- Compact, Handheld Size
- 2 NIR Versions

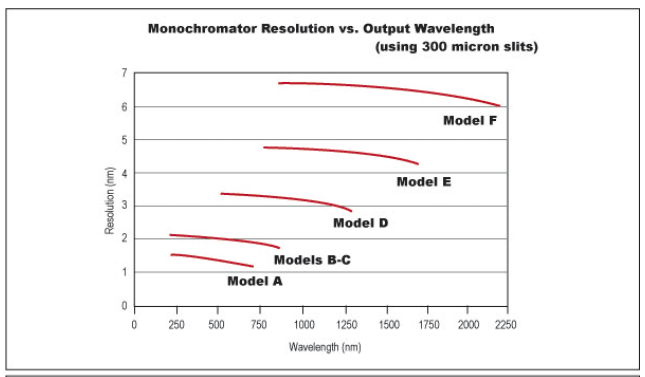
Manual Mini-Chrom Monochromators are manually operated monochromators that utilize a knob dial for wavelength selection. Rotation of the dial causes, via a precision lead screw/sine bar mechanism, rotation of the diffraction grating which positions the selected wavelength at the exit slit. Wavelength is read directly in nanometers (nm) from a four digit counter on all models. Manual Mini-Chrom Monochromators near infrared Models E and F require the micrometer reading to be doubled, to 2nm per division, for wavelength selection and readout. **#56-253** and **#56-254** have gold coated optics for maximum grating efficiency and superior reflectance in the near infrared.

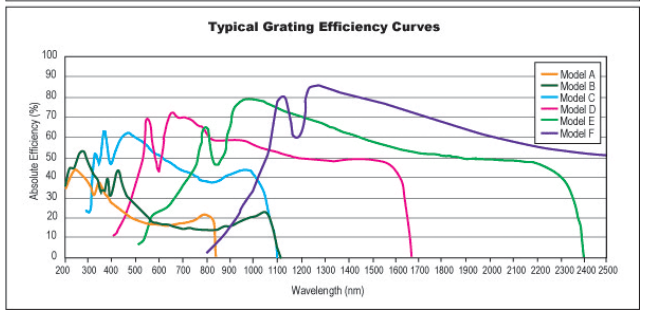
Note: Dialing the monochromators outside of their spectral ranges may cause a mechanical error. Be sure to only use the monochromators within their specified range.

These are ideal as components for system integration; all that is required is the light source and sensor. A set of 300 micron slits is included. Narrower slits increase resolution but decrease throughput. Wider slits increase throughput at the expense of spectral purity. These instruments are designed for use in research, quality control, and teaching. They are also used extensively as components in a variety of sophisticated analytical and biomedical equipment such as: clinical chemistry analyzers, HPLC detectors, and UV-VIS-NIR spectrophotometers. The Mini-Chrom is a compact, in-line Fastie-Ebert design with throughput, resolution, stray light, and power handling features comparable to many larger, more expensive, conventional models.

Technical Information







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