

750 - 1700nm, Manual Mini-Chrom Monochromator Gold Coated



Stock #56-253 [CONTACT US](#)

- 1 + £2,016⁰⁰

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Volume Pricing

Qty 1-4	£2,016.00 each
Qty 5-9	£1,820.00 each
Qty 10+	£1,512.00 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type of Optics:
2cm² Square, Gold (Au) Coated Ruled Grating

Type:
Monochromator

Model Number:
Model E w/Gold Coating

Physical & Mechanical Properties

300.00 Slit Width (μm):

59.00 Width (mm):

0.7 Weight (kg):

49.00 Height (mm):

140.00 Length (mm):

4 Slit Height (mm):

Optical Properties

1.54 Resolution (nm) for 100 μm Slit Width:

2.31 Resolution (nm) for 150 μm Slit Width:

4.62 Resolution (nm) for 300 μm Slit Width:

9.24 Resolution (nm) for 600 μm Slit Width:

≤ 0.02 Stray Light (%):

± 0.15 Wavelength Reproducibility (%):

0.2 Wavelength Readability (nm):

± 0.2 of λ Wavelength Accuracy (%):

750 - 1700 Wavelength Range (nm):

15.42 (center of range) Linear Dispersion (nm/mm):

f/3.9 Aperture (f/#):

1200.00 Blaze Wavelength (nm):

74.00 Focal Length FL (mm):

830 Groove Density (grooves/mm):

40 Watt/cm² Damage Threshold, By Design:

Threading & Mounting

$\frac{1}{4}$ -20 Mounting Holes Mounting Threads:

Environmental & Durability Factors

-20 to +80 Operating Temperature ($^{\circ}\text{C}$):

Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Compliant](#) Reach 247:

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

