

190 - 650nm, Manual Mini-Chrom Monochromator



Stock **#37-596** 2 In Stock

-

1

+

₹2,16,000

ADD TO CART

Volume Pricing	
Qty 1+	₹2,16,000 each
Qty 2+	₹1,99,026 each
Qty 3+	₹1,92,645 each
Need More?	Request Quote

Product Downloads

General

2cm² Square Holographic Grating

Type of Optics:

Monochromator

Type:

Model A

Model Number:

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	
0.53	Resolution (nm) for 100µm Slit Width:
0.80	Resolution (nm) for 150µm Slit Width:
1.60	Resolution (nm) for 300µm Slit Width:
3.21	Resolution (nm) for 600µm Slit Width:
≤0.003	Stray Light (%):
±0.15	Wavelength Reproducibility (%):
0.2	Wavelength Readability (nm):
±0.2 of λ	Wavelength Accuracy (%):
190 - 650	Wavelength Range (nm):
5.34 (center of range)	Linear Dispersion (nm/mm):
f/3.9	Aperture (f/#):
250.00	Blaze Wavelength (nm):
74.00	Focal Length FL (mm):
2400	Groove Density (grooves/mm):

40 Watt/cm ²	Damage Threshold, By Design: ☐
-------------------------	---

Threading & Mounting	
----------------------	--

¼-20 Mounting Holes	Mounting Threads:
---------------------	-------------------

Environmental & Durability Factors	
------------------------------------	--

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

Regulatory Compliance	
-----------------------	--

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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

