

The Digital Mini-Chrom (DMC) is a manually operated monochromator that utilizes a digital counter 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 counter on models 01, 02, 03 and 04. Near infrared models (05 and 06) require the counter reading to be doubled, to 2 nm per division, for wavelength selection and readout.



WAVELENGTH READABILITY

The wavelength on all Digital Mini-Chroms can be selected and read to 0.2 nm.

Catalog No.	Model	Wavelength Range
6-0401	DMC1-01	190 nm - 650 nm
6-0402	DMC1-02	200 nm - 800 nm
6-0403	DMC1-03	300 nm - 800 nm
6-0404	DMC1-04	500 nm - 1.2 μm
6-0405	DMC1-05	750 nm - 1.7 μm
6-0406	DMC1-05G	750 nm - 1.7 μm
6-0407	DMC1-03S	300 nm - 800 nm
6-0408	DMC1-06	850 nm - 2.2 μm
6-0409	DMC1-06G	850 nm - 2.2 μm

Specifications that apply only to a specific type of Mini-Chrom are listed following the description of each type.

f Number 3.9
 Focal Length 74 mm
 Grating 2 cm square
 Stray Light:
 Models with holographic gratings¹ $\leq 0.003\%$
 Models with ruled gratings² $\leq 0.02\%$
 Wavelength Accuracy (as a % of wavelength) $\pm 0.2\%$
 Wavelength Reproducibility $\pm 0.15\%$
 Wavelength Readability 0.2 nm
 Dimensions 139 X 59 X 49 mm
 Weight 0.7kg

¹ measured 10 nm from 632.8 nm (HeNe laser line).

² measured 20 nm from 1265.6 nm (second order HeNe laser line).

NOTE : Wavelength accuracy is given as a percentage of wavelength. This means that at 400 nm, the accuracy would be 400 nm $\pm 0.2\%$ or 400 nm ± 0.8 nm. At 800 nm, the accuracy in the same Mini-Chrom would be 800 nm $\pm 0.2\%$ or 800 nm ± 1.6 nm.