



### SPECIAL FEATURES

- **Highest Throughput Commercial Instrument**
  - Patented "Snap-In" gratings
    - Large focal plane
    - Imaging Optics
  - Multiple slit locations
- Rugged Stainless Steel Construction
  - Extended wavelength range setting
    - Echelle gratings(option)

### DETAIL SPECIFICATION AND GRATING SELECTION

<b>Focal Length</b>	0.67-meter, Czerny Turner design Spectrometer with Patented "Snap-In" gratings
<b>Slit Locations</b>	Axial and lateral with optional extra entrance and exit port selection mirrors
<b>f No.</b>	4.7 (5.8 with smaller grating)
<b>Grating Size</b>	120 x 140-mm (or 110 x 110-mm) - Echelle gratings up to 220-mm wide
<b>Accuracy</b>	0.05 nm (with 1200-g/mm grating)
<b>Reproducibility</b>	±0.005 nm (with 1200-g/mm grating)
<b>Focal Plane</b>	50-mm maximum width, multiply dispersion by the width of your detector for range
<b>Wavelength Range</b>	refer to grating of interest for range, in extended position increase top limit 20%

Grating Groove Density (g/mm)	3600	2400	1800	1200	600	300	150	75
Resolution** (nm)	0.014	0.02	0.03	0.04	0.08	0.16	0.32	0.64
Dispersion (nm/mm)	0.43	0.62	0.53	1.24	2.48	4.96	9.92	19.84
Wavelength Range	105 - 430 nm	105 - 650 nm	105 - 860 nm	105 - 1300 nm	105 - 2600 nm	105 nm - 5.2 um	105 nm - 10.4 um	105 nm - 20.8 um
Available Grating Blazes	Holographic* 130 240	Holographic* 150 240 300	Holographic* 400 500	Holographic* 120 150 250 300 500 750 1 um	Holographic* 120 300 500 750 1 um 1.85 um	Holographic* 120 300 500 750 1 um 3 um 4 um	300 500 750 1.25 um 2.5 um 4 um 6 um 8 um	2 um 3 um 8 um 10 um 12 um

\*\* Spectral resolution typically measured at 313.1 nm

All specifications are for single pass operation.

[spec.sht/pm1075/207V](http://spec.sht/pm1075/207V)