



**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**

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

<b>Grating Groove Density (g/mm)</b>	3600	2400	1800	1200	600	300	150	75
<b>Resolution** (nm)</b>	0.014	0.02	0.03	0.04	0.08	0.16	0.32	0.64
<b>Dispersion (nm/mm)</b>	0.43	0.62	0.53	1.24	2.48	4.96	9.92	19.84
<b>Wavelength Range</b>	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
<b>Available Grating Blazes</b>	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 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.