



- **Wavelength range, 105 nm to 60  $\mu\text{m}$**
- **Criss-Cross Czerny-Turner<sup>Patented</sup>**
- **SNAP-IN gratings<sup>Patented</sup>**
- **Lightweight cast Aluminum housing**
- **Operates in any attitude**

## MODEL 218 VUV-Vis-IR VACUUM UV

The Model 218 is a proven workhorse for Vacuum UV analysis. It is frequently used (purged) in the Visible and Infrared. The patented Criss-Cross Czerny-Turner optical system provides a low angle of incidence on the grating and a large angle ( $44^\circ$ ) between entrance and exit slits for simplified adaptation.

SPECIFICATIONS							
<b>Focal Length:</b>	300 mm						
<b>Entrance to Exit Angle:</b>	44 degrees						
<b>f/number:</b>	f/5.3						
<b>Wavelength Range:</b>	105 nm to 60 $\mu\text{m}$						
<b>Wavelength Accuracy:</b>	0.1 nm (on mechanical counter with 1200 g/mm grating)						
<b>Wavelength Reproducibility:</b>	$\pm 0.005$ nm						
<b>Grating Ruled Area:</b>	50 x 50 mm						
<b>Maximum Focal Plane Width:</b>	17 mm						
<b>Grating (g/mm)*</b>	2400	1200	600	300	150	75	
<b>Wavelength Range, From:</b>	105 nm	105 nm	105 nm	105 nm	105 nm	105 nm	105 nm
<b>To:</b>	500 nm	1.0 $\mu\text{m}$	2.0 $\mu\text{m}$	4.0 $\mu\text{m}$	8.0 $\mu\text{m}$	16.0 $\mu\text{m}$	
<b>Available Grating Blaze</b>	150 nm 300 nm	150 nm 200 nm 300 nm 500 nm 750 nm	150 nm 300 nm 500 nm 1.0 $\mu\text{m}$ 1.6 $\mu\text{m}$	1.0 $\mu\text{m}$ 2.0 $\mu\text{m}$ 3.0 $\mu\text{m}$	2.0 $\mu\text{m}$ 6.0 $\mu\text{m}$	8.0 $\mu\text{m}$ 12.0 $\mu\text{m}$	
<b>Resolution (nm) at 313.1 nm</b>	0.03	0.06	0.12	0.24	0.48	0.96	
<b>Dispersion (nm/mm)</b>	1.3	2.6	5.3	10.6	21.2	42.4	
<b>Wavelength Range at Focal Plane (nm)</b>	20	40	80	160	320	640	

PM1058 \*Other gratings available.