

OL SERIES 750 AUTOMATED SPECTRORADIOMETRIC MEASUREMENT SYSTEM SPECTRAL SENSITIVITY PERFORMANCE SPECIFICATIONS

NOISE EQUIVALENT IRRADIANCE (W/cm ² nm)								
INPUT OPTICS	HBW	DETECTOR	@300 nm	@550 nm	@750 nm	@1000 nm	@1500 nm	@2500 nm
None	5 nm	Si	1.5 x 10 ⁻¹³	3 x 10 ⁻¹⁴	3.5 x 10 ⁻¹⁴	2.5 x 10 ⁻¹⁴		
	5 nm	PMT	7.5 x 10 ⁻¹⁵	2 x 10 ⁻¹⁵	2 x 10 ⁻¹⁵			
	10 nm	PbS				1 x 10 ⁻¹¹	9 x 10 ⁻¹²	1 x 10 ⁻¹¹
Sphere ¹	5 nm	Si	4 x 10 ⁻¹¹	5 x 10 ⁻¹²	8 x 10 ⁻¹²	9 x 10 ⁻¹²		
	5 nm	PMT	2 x 10 ⁻¹²	3 x 10 ⁻¹³	4 x 10 ⁻¹³			
	10 nm	PbS				5 x 10 ⁻⁹	2 x 10 ⁻⁹	1 x 10 ⁻⁸
NOISE EQUIVALENT RADIANCE (W/Ster cm ² nm)								
INPUT OPTICS	HBW	DETECTOR	@300 nm	@550 nm	@750 nm	@1000 nm	@1500 nm	@2500 nm
None ²	5 nm	Si	3 x 10 ⁻¹²	9 x 10 ⁻¹³	1 x 10 ⁻¹²	9 x 10 ⁻¹³		
	5 nm	PMT	1.5 x 10 ⁻¹³	7 x 10 ⁻¹⁴	3 x 10 ⁻¹³			
	20 nm	PbS				1.5 x 10 ⁻¹⁰	5 x 10 ⁻¹¹	8 x 10 ⁻¹¹
Reflex Telescope ³	5 nm	Si	2 x 10 ⁻¹¹	8 x 10 ⁻¹²	1 x 10 ⁻¹¹	8 x 10 ⁻¹²		
	5 nm	PMT	1 x 10 ⁻¹²	5 x 10 ⁻¹³	2 x 10 ⁻¹²			
	20 nm	PbS				4 x 10 ⁻¹⁰	1 x 10 ⁻¹⁰	3 x 10 ⁻⁹
Reflex Microscope ⁴	5 nm	Si	6 x 10 ⁻¹¹	1.5 x 10 ⁻¹¹	6 x 10 ⁻¹¹	1.5 x 10 ⁻¹¹		
	5 nm	PMT	2 x 10 ⁻¹²	1 x 10 ⁻¹²	3.5 x 10 ⁻¹²			
	20 nm	PbS				8 x 10 ⁻¹⁰	2.5 x 10 ⁻¹⁰	6 x 10 ⁻¹⁰

¹ 6-Inch diameter sphere

² Source overfills FOV of monochromator

³ 1° FOV aperture

⁴ 1-Inch diameter, 1:1 objective lens