

# OL Series 750 Automated Spectroradiometric Measurement System Spectral Sensitivity Performance Specifications

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

<sup>1</sup> 6-Inch diameter sphere

<sup>2</sup> Source overfills FOV of monochromator

<sup>3</sup> 1° FOV aperture

<sup>4</sup> 1-Inch diameter, 1:1 objective lens