

OL Series 750 Automated Spectroradiometric Measurement System Spectral Sensitivity Performance Specifications

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

¹ 6-Inch diameter sphere

² Source overfills FOV of monochromator

³ 1° FOV aperture

⁴ 1-Inch diameter, 1:1 objective lens