

For a quotation for other types of devices and measurement parameters, please contact Farshid Manoocheri or Petri Kärhä by e-mail, firstname.lastname@aalto.fi.

OPTICAL PROPERTIES OF DETECTORS					
Quantity or service	Customer device or artefact	Service code	Base fee (Euro)	Service code	Additional fees (Euro)
Spectral power responsivity Spectral scan at 10, 50 and 100 nm intervals, respectively, in the following wavelength ranges of spectrometer:					
240 - 380 nm	Silicon detector	S111	€1820	S112	€150 x additional data points €1300 x additional detector
350 - 850 nm	Silicon detector	S121	€1560	S122	
800 - 1700 nm	Silicon , germanium and InGaAs detector	S131	€1820	S132	
Spectral power responsivity Comparison with reference detectors at one of the following laser wavelengths:					
325nm, 442nm, 458nm, 488nm, 530nm 543.5nm, 633nm, 650nm, 933nm, 1.31µm, 1.52µm, 1.55µm	Silicon , germanium and InGaAs detector	S141	€1170	S142	€910 x additional laser line /detector
Irradiance responsivity					
Correction factors for application specific light sources	UVA, UVB and erythema meter.	R111	€1820	R112	€650 x additional lamp €1300 x additional meter
Hg-line , 360 – 370 nm	UVA irradiance meter	R121	€1170	R122	€910 x additional meter
Spectral radiance responsivity					
290 - 800 nm	Radiance meter	R211	€1820		
Illuminance responsivity Calibration at five illuminance levels in the ranges of:					
0.1 - 500 lx	Illuminance meter, photometer, luxmeter	P111	€1560	P112	€100 x additional data points
100 - 5000 lx	Illuminance meter, photometer, luxmeter	P121	€1560	P122	€100 x additional data points
0.1 - 5000 lx	Illuminance meter, photometer, luxmeter	P131	€1820	P132	€100x additional data points
Luminance responsivity Calibration at five luminance levels					
1 - 40000 cd m <sup>-2</sup>	Luminance meter	P211	€1560	P212	€100 x additional data points

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LIGHT SOURCES					
Quantity or service	Customer device or artefact	Service code	Base fee (Euro)	Service code	Additional fees (Euro)
Spectral irradiance (calibration of primary standard lamps with a filter radiometer)					
290 - 900 nm	1 kW FEL, 1 kW DXW	R311	€2000	R312	€1650 x additional lamps
360 - 830 nm	1 kW FEL, 1 kW DXW, Wi41/G	R321	€1650	R322	€1400 x additional lamps
Spectral irradiance (calibration of standard lamps with reference spectroradiometers)					
290 - 830 nm	1 kW FEL, 1 kW DXW	R411	€1560	R412	€1300 x additional lamps €520 for color temperature adjustment
360 - 830 nm	1 kW FEL, 1 kW DXW, Wi41/G	R421	€1170	R422	
290 – 2500 nm	1 kW FEL, 1 kW DXW	R413	€2300	R414	€1560 x additional lamps €520 for color temperature adjustment
Color temperature					
	Tungsten lamp	R511	€1170	R512	€900 x additional lamps
Spectral radiance					
290 - 800 nm	Integrating sphere source	R611	€1950		
Luminance Calibration at five luminance levels					
1 - 40000 cd m <sup>-2</sup>	Integrating sphere source	P311	€1560	P312	€130 x additional data points
Luminous intensity (calibration of primary standard lamps with a reference photometer)					
1 - 10000 cd	Wi41/G, 1 kW FEL	P411	€1690	P412	€1300 x additional lamp
Luminous flux (calibration of primary standard lamps with an absolute integrating sphere)					
10 - 10000 lm	Wi40/G Globe	P511	€1690	P512	€1300 x additional lamps

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OPTICAL PROPERTIES OF MATERIALS					
Quantity or service	Customer device or artefact	Service code	Base fee (Euro)	Service code	Additional fees (Euro)
Regular transmittance (Absorbance) Calibrations at five wavelengths with beam size of 7-14 mm diameter, in the spectral range of:					
240 - 380 nm	Neutral density filter	S211	€1200	S212	€90 x additional wavelength
380 - 950 nm	Neutral density filter	S221	€1000	S222	
950 - 1700 nm	Neutral density filter	S231	€1200	S232	
Regular transmittance (Absorbance) Calibrations at nine wavelengths with beam size of (1 x 3) – (5 x 11) mm, using a transfer standard spectrophotometer:					
200 - 850 nm	Filter	S241	€800	S242	€500 x additional filter
850 - 1700 nm	Filter	S251	€900	S252	€90 x additional wavelength
Regular reflectance Calibrations at one angle and five wavelengths, in the range of:					
240 - 380 nm	Flat mirror, reflector	S411	€2000	S412	€150 x additional data points
380 - 950 nm	Flat mirror, reflector	S421	€1560	S422	
950 - 1700 nm	Flat mirror, reflector	S431	€2000	S432	
Diffuse reflectance factor Comparison with a reference standard with measurement geometry of 0:d or 8:d at five wavelengths in the range of:					
240 - 380 nm	Reflectance standard	S511	€1800	S512	€150 x additional data points
380 - 980 nm	Reflectance standard	S521	€1600	S522	€150 x additional data points

Laboratory contact information:

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