Г

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 respons Spectral scan at 10, 50 a | ivity Ind 100 nm intervals, respect | tively, in the | following wa | avelength ra | anges of spectrometer: | | | |
| 240 - 380 nm | Silicon detector | S2111 | €1820 | S2112 | | | | |
| 350 - 850 nm | Silicon detector | S2121 | €1560 | S2122 | €150 x additional data points €1300 x additional detector | | | |
| 800 - 1700 nm | Silicon , germanium and InGaAs detector | S2131 | €1820 | S2132 | | | | |
| Spectral power respons Comparison with refere | ivity nce detectors at one of the f | ollowing las | er wavelengt | :hs: | | | | |
| 325nm, 442nm, 458nm, 488nm, 530nm 543.5nm, 633nm, 650nm, 933nm, 1.31μm, 1.52μm, 1.55μm | Silicon , germanium and InGaAs detector | S2441 | €1170 | S2442 | €910 x additional laser line /detector | | | |
| Irradiance responsivity | | | | | | | | |
| Correction factors for application specific light sources | UVA, UVB and erythemal meter. | R2911 | €1820 | R2912 | €650 x additional lamp €1300 x additional meter | | | |
| Hg-line , 360 – 370 nm | UVA irradiance meter | R2921 | €1170 | R2922 | €910 x additional meter | | | |
| Spectral radiance respo | nsivity | | | | | | | |
| 290 - 800 nm | Radiance meter | R2311 | €1820 | | | | | |
| Illuminance responsivit Calibration at five illumi | y nance levels in the ranges of | : | | | | | | |
| 0.1 - 500 lx | Illuminance meter, photometer, luxmeter | P1211 | €1560 | P1212 | €100 x additional data points | | | |
| 100 - 5000 lx | Illuminance meter, photometer, luxmeter | P1221 | €1560 | P1222 | €100 x additional data points | | | |
| 0.1 - 5000 lx | Illuminance meter, photometer, luxmeter | P1231 | €1820 | P1232 | €100x additional data points | | | |
| Luminance responsivity Calibration at five lumin | | | | | | | | |
| 1 - 40000 cd m ⁻² | Luminance meter | P1621 | €1560 | P1622 | €100 x additional data point | | | |

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.

| LIGHT SOURCES | | | | | | | | |
|--|--------------------------------|-----------------|--------------------|-----------------|--|--|--|--|
| Quantity or service | Customer device or artefact | Service code | Base fee (Euro) | Service code | Additional fees (Euro) | | | |
| Spectral irradiance (calibration of primary s | tandard lamps with a filter r | adiometer) | | | | | | |
| 290 - 900 nm | 1 kW FEL, 1 kW DXW | R3111 | €2000 | R3112 | €1650 x additional lamps | | | |
| 360 - 830 nm | 1 kW FEL, 1 kW DXW, Wi41/G | R3121 | €1650 | R3122 | €1400 x additional lamps | | | |
| Spectral irradiance (calibration of standard | lamps with reference spect | roradiometer | rs) | | | | | |
| 290 - 830 nm | 1 kW FEL, 1 kW DXW | R3141 | €1560 | R3142 | €1300 x additional lamps €520 for color temperature adjustment | | | |
| 360 - 830 nm | 1 kW FEL, 1 kW DXW, Wi41/G | R3143 | €1170 | R3144 | | | | |
| 290 – 2500 nm | 1 kW FEL, 1 kW DXW | R3145 | €2300 | R3146 | €1560 x additional lamps €520 for color temperature adjustment | | | |
| Color temperature | | l | 1 | | | | | |
| | Tungsten lamp | R5211 | €1170 | R5212 | €900 x additional lamps | | | |
| Spectral radiance | | | | | | | | |
| 290 - 800 nm | Integrating sphere source | R3261 | €1950 | | | | | |
| Luminance Calibration at five lumin | ance levels | | | | | | | |
| 1 - 40000 cd m ⁻² | Integrating sphere source | P1531 | €1560 | P1532 | €130 x additional data points | | | |
| Luminous intensity (calibration of primary s | tandard lamps with a refere | nce photom | eter) | | | | | |
| 1 - 10000 cd | Wi41/G, 1 kW FEL | P1141 | €1690 | P1142 | €1300 x additional lamp | | | |
| Luminous flux (calibration of primary s | standard lamps with an abso | olute integra | ting sphere) | | | | | |
| 10 - 10000 lm | Wi40/G Globe | P1351 | €1690 | P1352 | €1300 x additional lamps | | | |

Value added tax and postal costs are not included in the price. Prices and services subject to change without notice.

Services subject to discontinuation without notice.

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.

| Quantity or service | Customer device | Service | Base fee | Service | Additional fees |
|--|-------------------------------------|------------------|------------------------|--------------------------------|---|
| | or artefact | code | (Euro) | code | (Euro) |
| Regular transmittance | (Absorbance) | | | | |
| Calibrations at five way | elengths with beam size of | 7-14 mm dia | meter, in the | spectral rai | nge of: |
| 240 - 380 nm | Neutral density filter | S4101 | €1200 | S4102 | €90 x additional wavelength |
| 380 - 950 nm | Neutral density filter | S4103 | €1000 | S4104 | |
| 950 - 1700 nm | Neutral density filter | S4105 | €1200 | S4106 | |
| Regular transmittance | Absorbance) | | 1 | I | 1 |
| - | • | f (1 x 3) – (5 x | 11) mm, usir | ng a transfer | standard spectrophotometer: |
| 200 - 850 nm | Filter | S4111 | €800 | S4112 | €500 x additional filter €90 x additional wavelength |
| 850 - 1700 nm | Filter | S4113 | €900 | S4114 | |
| Regular reflectance | • | | | • | 1 |
| Calibrations at one angl | e and five wavelengths, in t | the range of: | | | |
| 240 - 380 nm | Flat mirror, reflector | S4641 | €2000 | S4642 | €150 x additional data points |
| 380 - 950 nm | Flat mirror, reflector | S4643 | €1560 | S4644 | |
| | Flat mirror, reflector | S4645 | €2000 | S4646 | |
| 950 - 1700 nm | | | | | |
| 950 - 1700 nm Diffuse reflectance fact | or | | | | |
| Diffuse reflectance fact | - | rement geom | etry of 0:d o | r 8:d at five | wavelengths in the range of: |
| Diffuse reflectance fact | - | rement geom | etry of 0:d o €1800 | r 8:d at five \$4512 | wavelengths in the range of: €150 x additional data points |

Laboratory contact information:

Farshid Manoocheri or Petri Kärhä Metrology Research Institute P.O. Box 15500, FI-00076 Aalto, FINLAND

Street address: Maarintie 8, FI-02150 Espoo, FINLAND Phone: +358 50 590 2483 or +358 50 596 8469 Website: http://metrology.tkk.fi/

Value added tax and postal costs are not included in the price. Prices and services subject to change without notice.