

Dual-function Radiometers

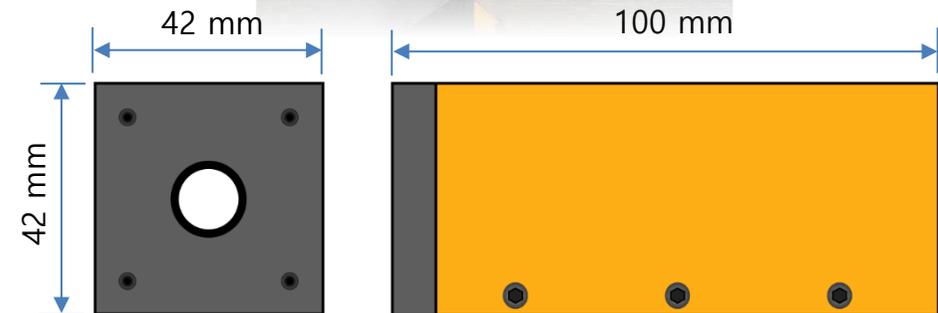
Model QD

- QD-P (Wavelength & power meter for low power range [~ 0.1 mW])
- QD-HP (Wavelength & power meter for high power range [~ 100 mW])

Wavelength & Power Meter – Low Power Range

- Simultaneous measurement of centroid wavelength (nm) and radiant power (W)
 - Suitable for a tunable monochromatic light input (coherent or incoherent)
 - Free-space input on a diffuser with a diameter of 10 mm
 - Wavelength range from 450 nm to 950 nm
 - Power range from 10 nW to 0.1 mW

| | QD-P |
|--|--|
| Input aperture | Ø10 mm |
| Measurement range of wavelength | 450 nm – 950 nm |
| Measurement range of radiant power | 10^{-8} W ~ 10^{-4} W |
| Measurement uncertainty (*<i>k</i> = 2) | 0.6 nm for wavelength, 2 % for radiant power |
| Integration time of single readout | 0.5 ms (fast), 5 ms (medium), 500 ms (slow) |
| Interface and power supply | USB (C type) |
| Delivery with a data readout software for Windows PC (readout device in development) | |



4 x threads on front for standard 30 mm cage system

M4 & M6 mounting threads on bottom

**k* is the coverage factor for the expanded uncertainty. Typically, *k* = 2 corresponds to approx. 95% confidence level.

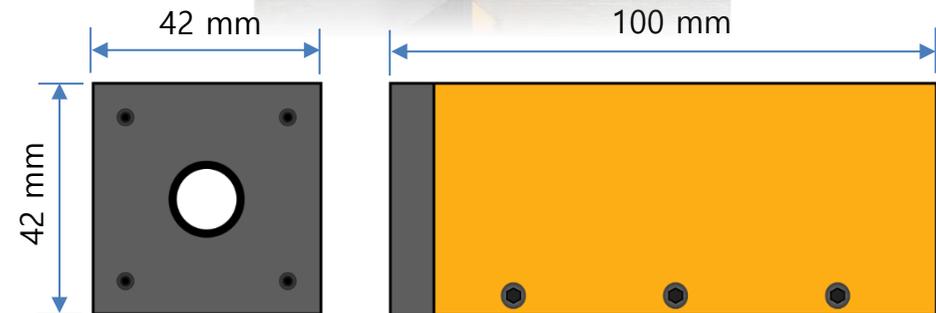
QD-P

QD-HP

Wavelength & Power Meter – High Power Range

- Simultaneous measurement of centroid wavelength (nm) and radiant power (W)
 - Suitable for a tunable laser
 - Free-space input on a diffuser with a diameter of 10 mm
 - Wavelength range from 450 nm to 950 nm
 - Power range from 10 μ W to 100 mW

| | QD-HP |
|--|--|
| Input aperture | \varnothing 10 mm |
| Measurement range of wavelength | 450 nm – 950 nm |
| Measurement range of radiant power | 10^{-5} W ~ 10^{-1} W |
| Measurement uncertainty (* $k = 2$) | 0.6 nm for wavelength, 2 % for radiant power |
| Integration time of single readout | 0.5 ms (fast), 5 ms (medium), 500 ms (slow) |
| Interface and power supply | USB (C type) |
| Delivery with a data readout software for Windows PC (readout device in development) | |



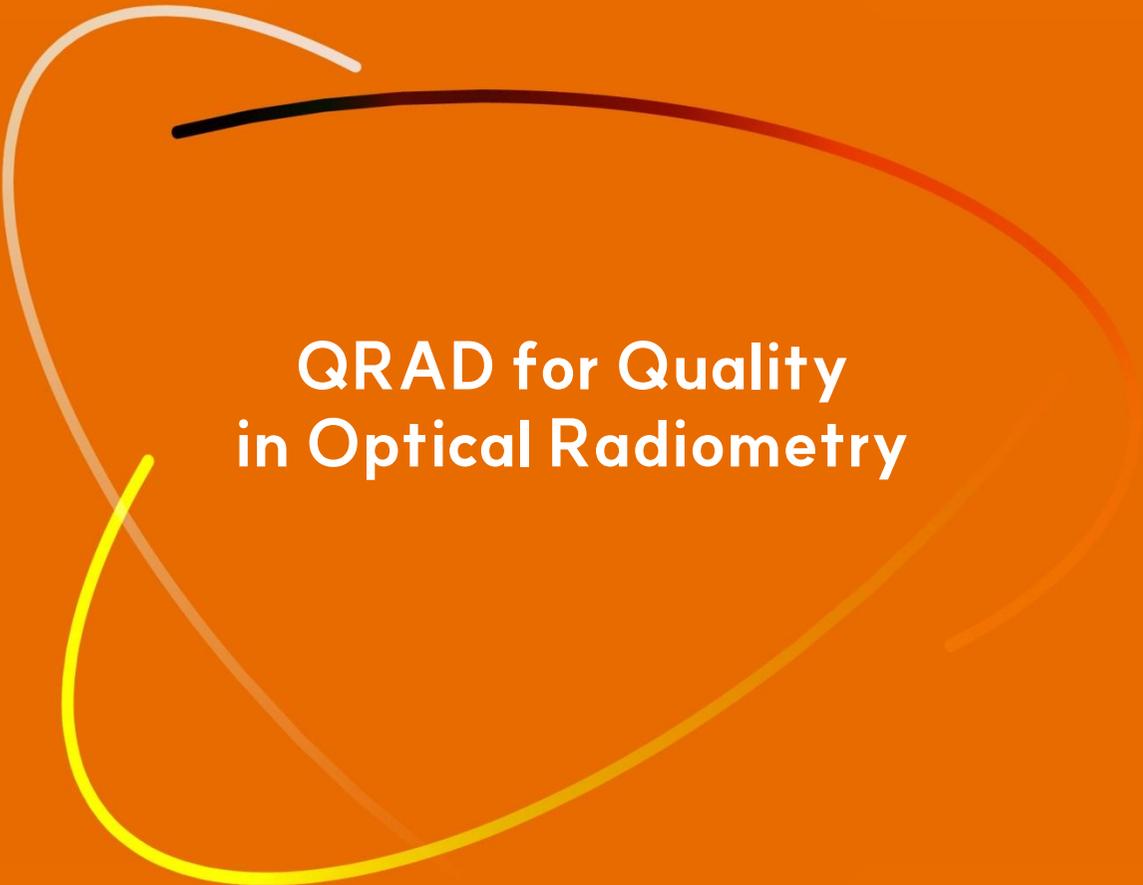
4 x threads on front for standard 30 mm cage system

M4 & M6 mounting threads on bottom

* k is the coverage factor for the expanded uncertainty. Typically, $k = 2$ corresponds to approx. 95% confidence level.

QD-P

QD-HP



QRAD for Quality in Optical Radiometry



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