

Dual-function Radiometers

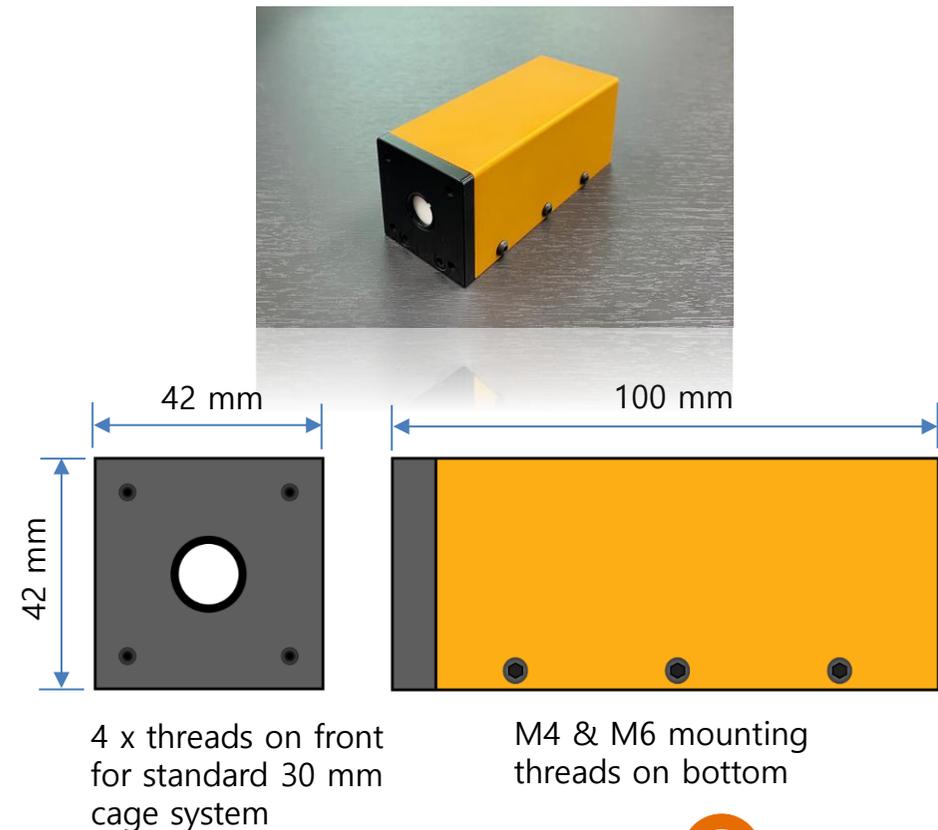
Model QD

- 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)	



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

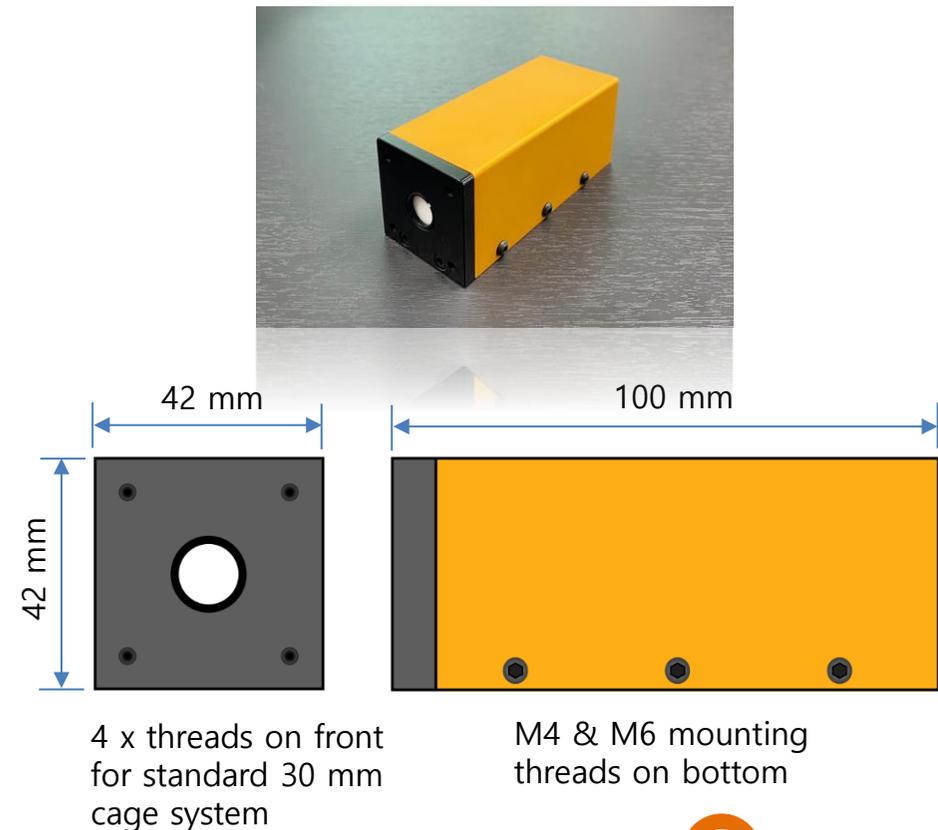
QD-P

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

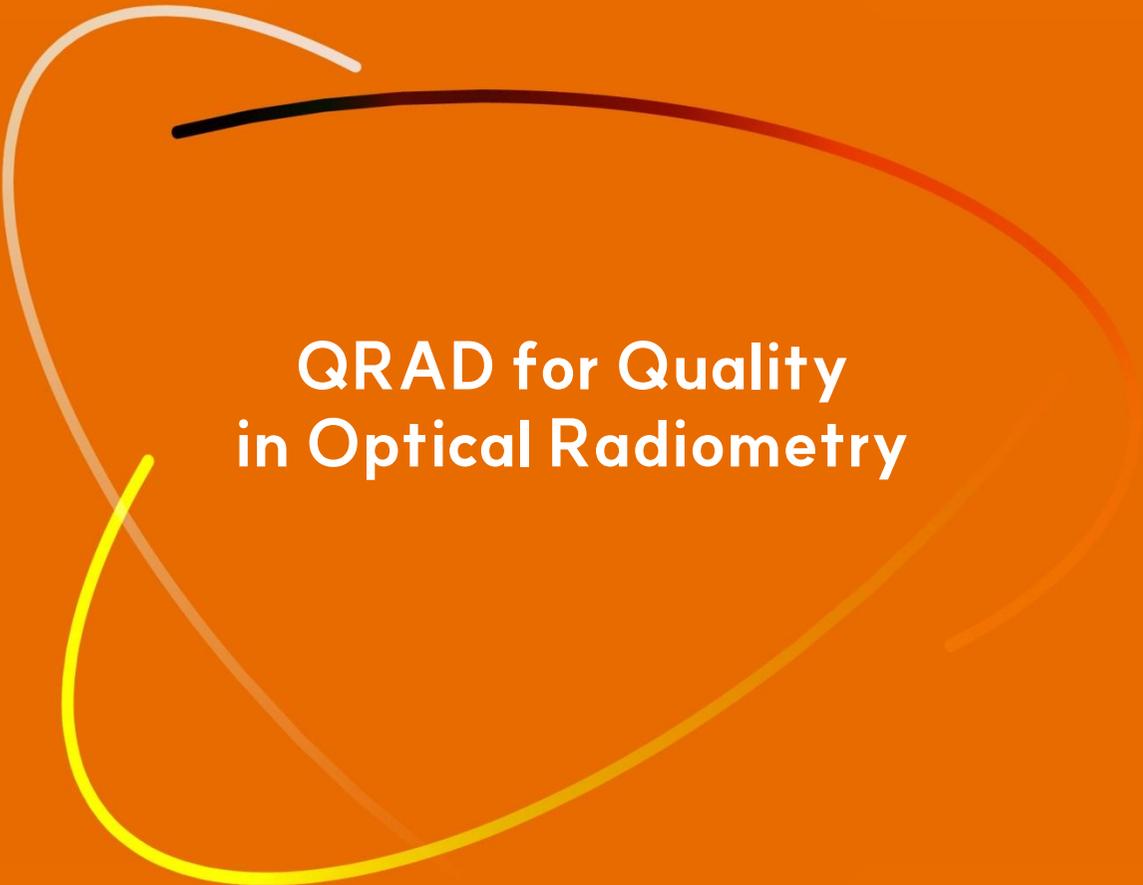
	QD-HP
Input aperture	\varnothing 10 mm
Measurement range of wavelength	450 nm – 950 nm
Measurement range of radiant power	10^{-5} W ~ 10^{-1} W
Measurement uncertainty (* <i>k</i> = 2)	0.6 nm for wavelength, 2 % for radiant power
Integration time of single readout	0.5 ms (fast), 5 ms (medium), 500 ms (slow)
Interface and power supply	USB (C type)
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QD-P

QD-HP



QRAD for Quality in Optical Radiometry



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