Photon-counting Radiometers

Model QS

- QS-SP (Si SPAD with passive quenching)
- QS-IGA (InGaAs SPAD with active quenching) – in preparation

QRAD
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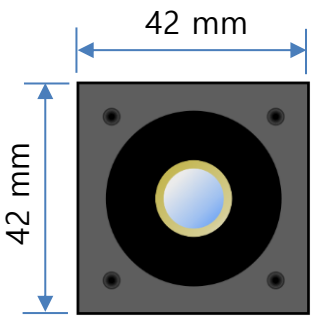
- QS-SP
- QS-IGA

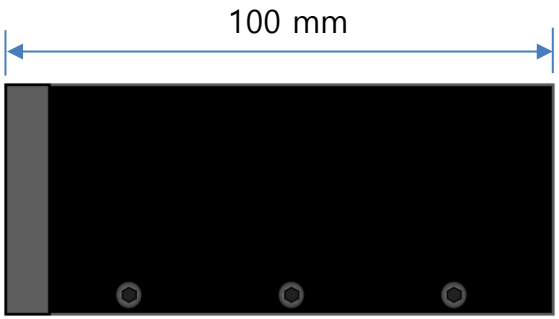
Si SPAD with passive quenching

- Compact design with temperature-controlled Si APD sensor
  - Free-space input (fiber-coupled version on request)
  - Large-area sensor for high collection efficiency
- Delivery with KRISS test certificates on key performances

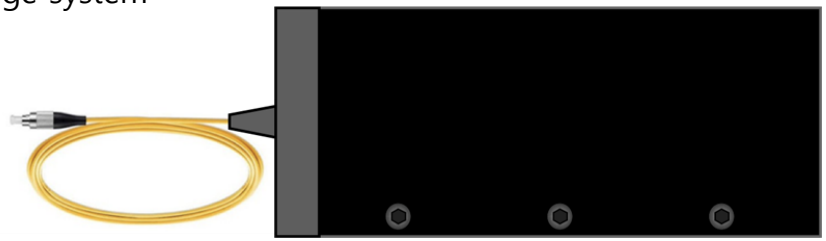
	QS-SP (free-space)	QS-SP-F (fiber-coupled)
Sensor active area	Ø500 μm (nominal)	Ø500 μm (nominal)
Wavelength range	300 nm – 1000 nm	400 nm – 1100 nm
Dark count rate	< 500 cps	< 5000 cps
Max. detection efficiency	➢ 70% @(500 – 600) nm	➢ 20% @(600-800) nm
Max. count rate	$2x10^7$ cps	
Dead time	< 50 ns	
After-pulsing probability	< 1%	
Pulse output	TTL via a SMA connector	
Electrical power supply	5 V DC	



4 x threads on front for standard 30 mm cage system



M4 & M6 mounting threads on bottom



ϕ 9 μm core fiber, 1 m length, FC-PC connector

*Fiber-coupling option

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