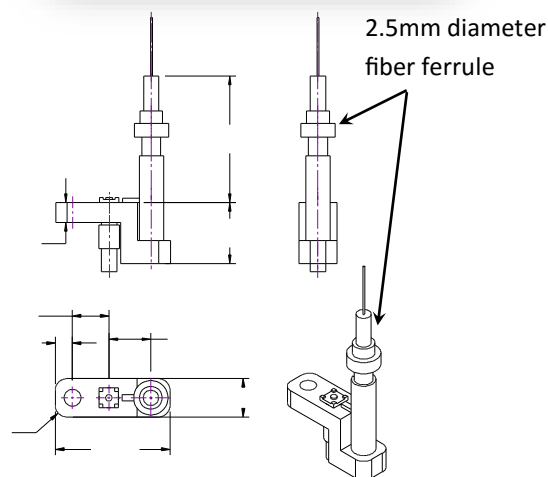
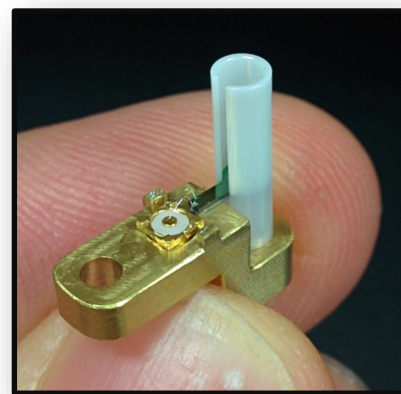


Quantum Opus

SUPERCONDUCTING NANOWIRE SINGLE-PHOTON DETECTORS

Key Features:

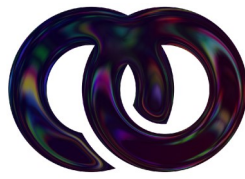
- Quantum Opus nanowires provide high-efficiency, low-noise detection while operating at temperatures < 2.5 K
- Devices are self-aligned to optical fiber for high-efficiency coupling
- High system detection efficiency at custom wavelengths
- Broadband and other custom response curves available
- Multi-element and other nanowire architectures upon request
- Available with or without low-loss fiber pigtail
- Ask about mid-infrared optimized devices!



Typical dimensions shown.
All dimensions in millimeters.

	850 nm	950 nm	1310 nm	1550 nm
<i>System Detection Efficiency</i>	$\geq 90\%$	$\geq 90\%$	$\geq 80\%$	$\geq 80\%$
<i>Dark Rate</i>	< 1 Hz	< 1 Hz	10 Hz	100 Hz*
<i>Jitter</i>	< 80 ps	< 80 ps	< 100 ps	< 100 ps
<i>Nominal Pulse Height</i>	500 mV	500 mV	300 mV	300 mV
<i>Recovery Time</i>	50 ns	50 ns	50 ns	50 ns

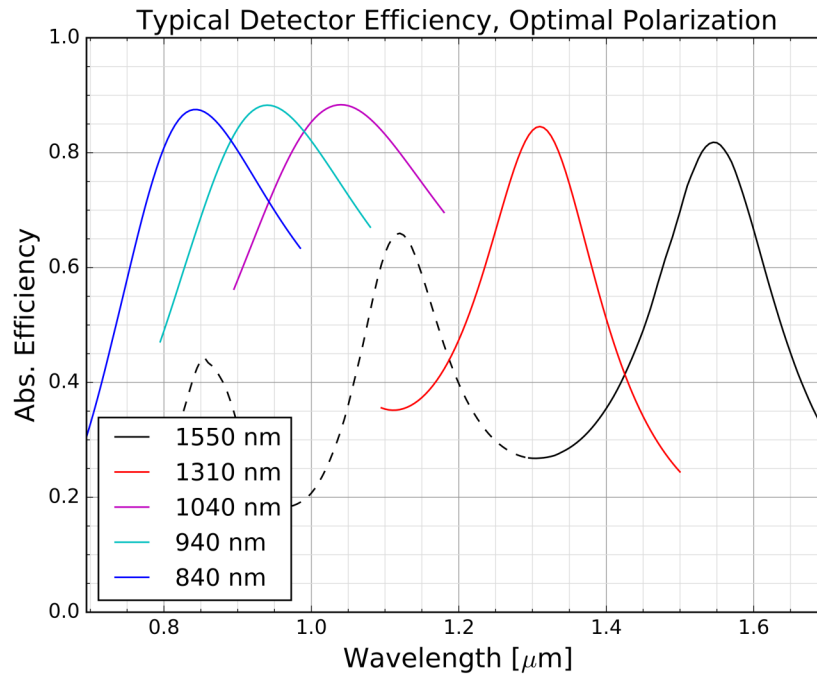
*Dependent on proper black-body filtering; contact us to achieve this performance in your cryostat.



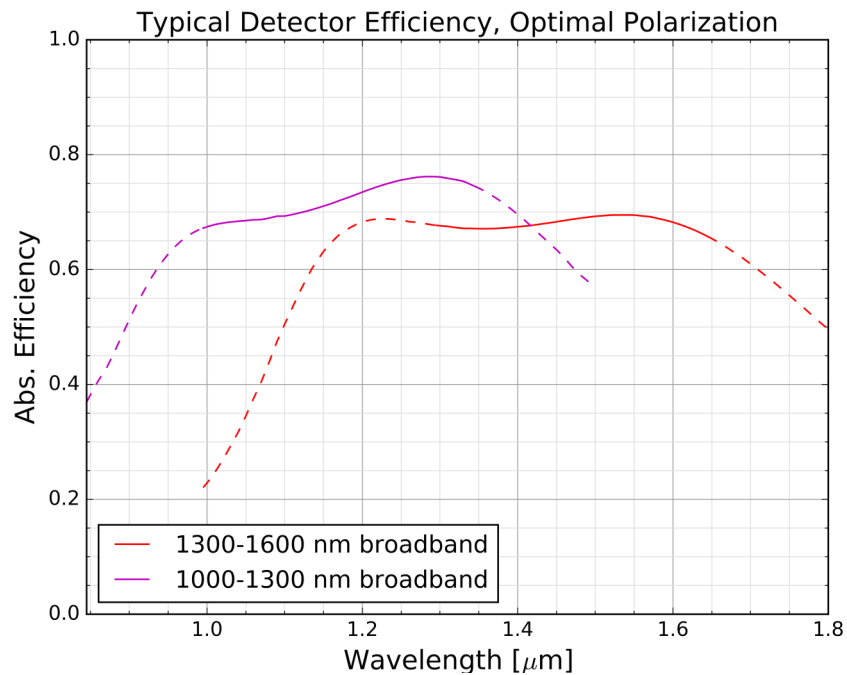
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SUPERCONDUCTING NANOWIRE SINGLE-PHOTON DETECTOR

SAMPLE NARROWBAND RESPONSE



SAMPLE WIDEBAND RESPONSE



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