



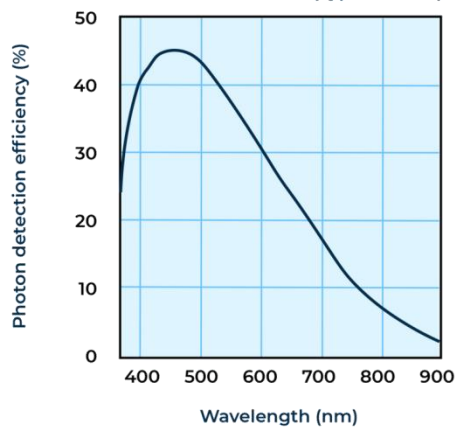
Configuring a SPAD detector



- a - Double check the characteristics of your setup to determine whether our SPAD is a suitable choice for your requirements regarding photon detection efficiency and linearity.

Photon detection efficiency vs. wavelength

(Typ. $T_a=25\text{ }^\circ\text{C}$)

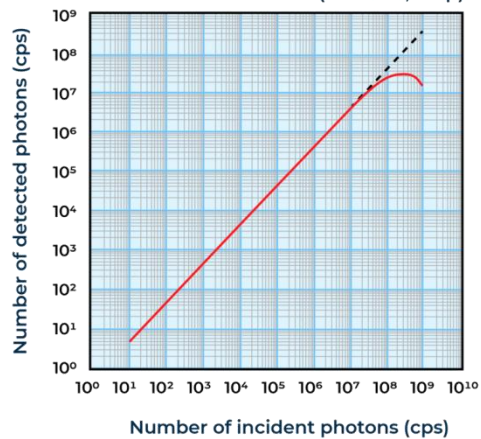


Spectral Response

The sensitivity of our SPAD detector peaks at 450nm, while its spectral response range spans from 370nm to 900 nm.

Linearity

($T_a=25\text{ }^\circ\text{C}$, $\lambda=\lambda_p$)



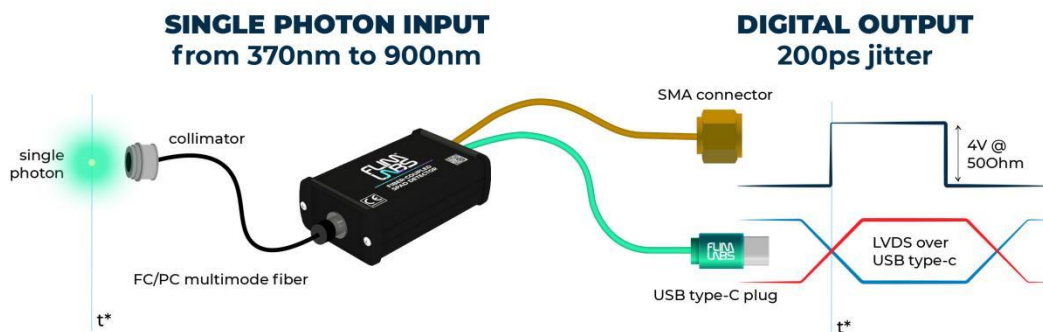
Key tech specs

Our fiber-coupled USB-powered SPAD detector yields a <200 ps timing jitter coupled with 7cps of dark count rate. The throughput linearity is maintained up to 3.5Mcounts/s of incident photons.



- b** - Connect a FC/PC multimode fiber to the input signal port **(1)**.
- c** - Connect one of the LVDS output ports **(5 or 6)** specifically to the [FLIM Data Acquisition Card](#) using an USB type-C cable or use the 4 V LVTTTL 50 Ohm single ended output **(4)** to connect the SPAD to any brand of data acquisition card through a SMA coaxial cable.
- d** - Power the SPAD detector via standard USB type-c port **(5 or 6)** or via a 2.1/5.5 mm coaxial connector **(2)** using a wall-mount DC converter (recommended values are 9 V DC – 1 A max). Ensure that the status LED **(3)** displays a green light while in operation.

Connection example



POWER SUPPLY AND USB type-C SIGNAL INTERFACE

