

Technical specification

The system to be purchased is a **polarization entangled photon source** which will be used for the generation of entangled photon pairs through the well-established process of spontaneous parametric down conversion (SPDC) in the application of Quantum Key Distribution(QKD). The advantage of purchasing this system is its pre-aligned and stable.

Specification	
Source wavelength	775 nm
Pump laser source required	Yes
Signal wavelength	1550 nm (C-Band)
Idler wavelength	1550 nm (C-Band)
Crystal length and type	10 mm, Type-0 MgO:PPLN
Phase matching	Type-0
Signal and Idler separated	Yes
Entangled photons generation rate	> 1 Mcps
Fidelity	> 95%
Output fiber for Signal and Idler	1 m PMF with FC/PC connectors

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