

SPECIFICATIONS	
Operating (central) Wavelengths for Signal-Idler	780 ± 5 nm – 842 ± 5 nm
Maximum Pair Rate	>20 Mcps
Cauchy Parameter ¹	>10
Pump Laser Typical Power	150 mW (40-170 mW)
Pump Laser Linewidth	~1 nm
Laser Current Driver	Included (<300 mA)
Maximum Power Consumption	1 W
Heater	NO
Physical Dimensions of the Box	54.0 mm x 50.0 mm x 33.0 mm
Area of PCB	50.9 mm x 47.0 mm
Current modulation option	YES
Maximum External Current Modulation Frequency	20 MHz
Storage Temperature	0 °C – 50 °C
Operating Temperature	20 ± 5 °C
Interface	USB2.0
SPDC output	Free-Space
Signal-Idler Polarizations	O-O (for Type-1 SPDC)
BBO cut angle for 405 nm pump and Type-1 (Type-2) at 810 denegerate case	28.80°
Coherence Time of Signal-Idler	~100 fs

¹ Cauchy parameter is: $R = g_{si}^2 / (g_{ss}g_{ii})$. R value highly depends on the coherence time; therefore, the linewidth of SPDC photons. R value is measured with 81 ps timing resolution for detection events and 0.55 photon detection efficiency for detectors.