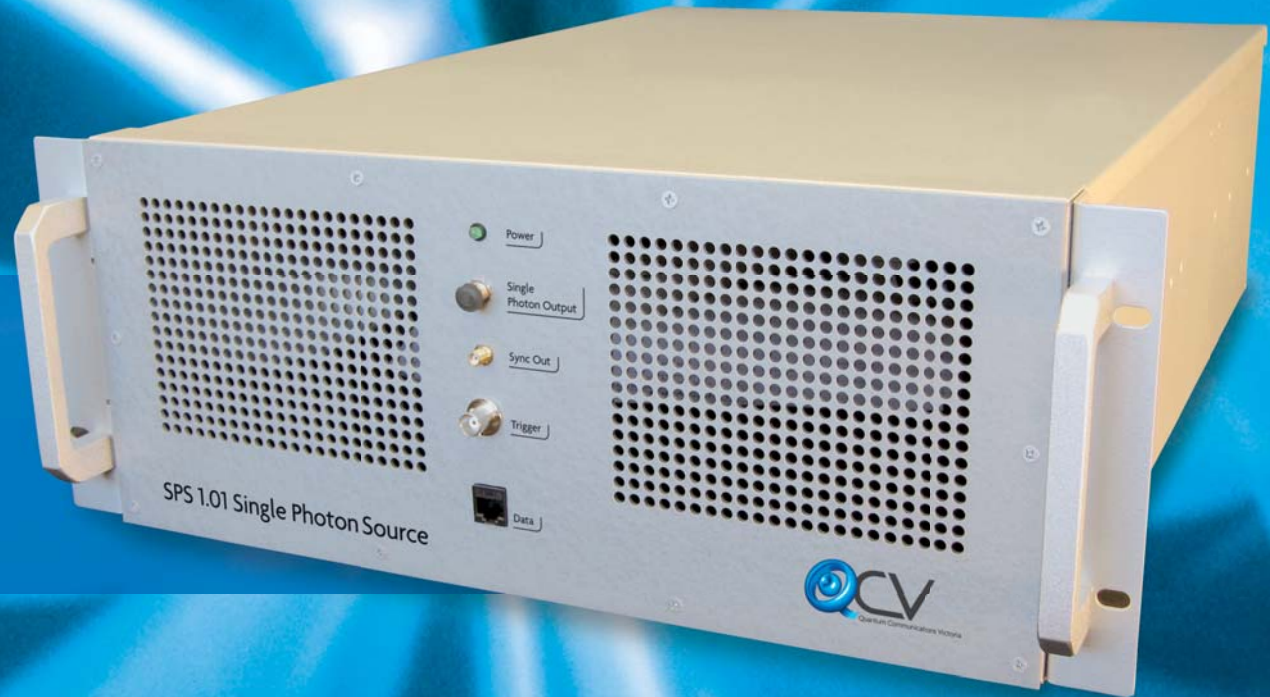


Single Photon Source

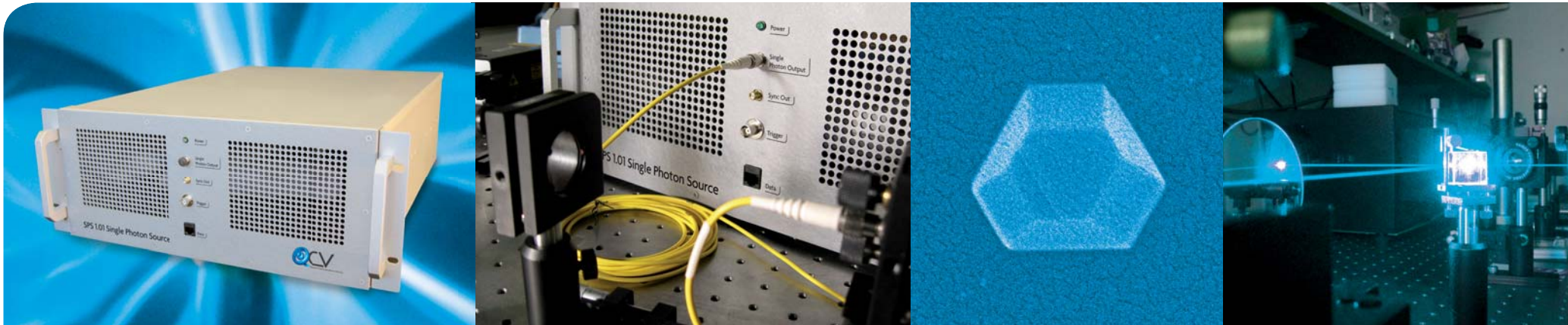
SPS 1.01

The first commercially available solid-state Single Photon Source



Quantum Communications Victoria (QCV) introduces the SPS 1.01, the world's first commercially available true single photon source. Designed specifically for simple operation, the SPS 1.01 utilises an FC optical fibre port for single photon output. The SPS 1.01 is housed in a convenient 19 inch box which could be either rack mounted for Quantum Key Distribution or used on laboratory benchtops for other quantum based applications.





Key Features

- True single photon output
- Diamond-based solid-state device*
- Room temperature operation
- Compact and robust unit
- Fibre coupled output

* The technology is patent protected

Specifications

- Wavelength 700 nm
- Spectral width (FWHM) 100nm
- Frequency >150 kHz
- $g^{(2)}(0) < 0.1$
- Unpolarised output
- Operating temperature 10 to 40°C
- Storage -10 to 60°C

Applications

- Quantum communications
- Quantum optics
- Quantum computing
- Quantum metrology
- Optical calibration
- Microscopy
- Optical sensing

Data published in this specification is derived from measurements on randomly selected production devices. QCV has a policy of continuous development and QCV therefore reserves the right to make changes to specifications, processes and materials which may affect the performance, the appearance or other characteristics of QCV products.