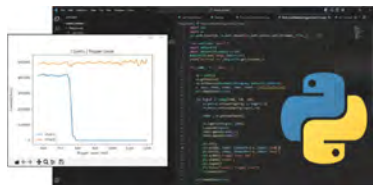


Software for Time-Correlated Single Photon Counting



Snappy new API (snAPI) is a Python wrapper which enables seamless communication and configuration with PicoQuant's

Time-Correlated Single Photon Counting (TCSPC) and Time Tagging Electronics. It harnesses the advantages of C++ for optimal speed and performance and bridges the gap between the high-speed capabilities of PicoQuant's TCSPC devices and the ease of use and versatility of Python.

https://www.picoquant.com/products/category/software/snapi-fast-intuitive-and-versatile-python-wrapper?goto=white_rabbit#description

HIGH-POWER CW DIODE PUMPED LASER



The Cobolt Jive™ is a continuous-wave single-frequency diode pumped laser (DPL) operating at 561.2 nm in a TEM₀₀ beam ($M^2 < 1.1$). Now with up to 1 W CW output power, the Cobolt Jive™ is

well suited to applications in fluorescence microscopy, especially for super resolution microscopy such as DNA-PAINT, as well as interferometric based techniques such as particle flow analysis.

<https://hubner-photonics.com/products/lasers/single-frequency-lasers/05-01-series/>

Dielectric Ultrafast Laser Mirrors



TECHSPEC® Low GDD Dielectric Ultrafast Laser Mirrors feature a multilayer dielectric coating on fused silica substrates for reflectivity higher than 99.9% and low coefficient of thermal expansion. These mirrors have a group delay dispersion (GDD) of near zero at their design wavelength range, minimizing dispersion of the reflected beam. They are well adapted for the 1st and 2nd harmonics of Ti:sapphire and Yb:doped lasers for applications such as laser machining and welding.

https://www.edmundoptics.com/f/techspecr-low-gdd-dielectric-ultrafast-laser-mirrors/39997/?utm_source=website&utm_medium=homepage+banner+slot+1&utm_campaign=gdd

UV-SENSITIVE MINI-SPECTROMETER



Hamamatsu Photonics introduced a UV-sensitive model of mini-spectrometer micro series. This C16767MA

model is highly sensitive to UV light in the 190 - 440 nm range. It is designed and developed by leveraging Hamamatsu's micro-electro-mechanical system (MEMS) technology and advanced opto-semiconductor manufacturing technology.

<https://www.hamamatsu.com/jp/en/news/products-and-technologies/2023/20231101000000.html>

Single-Photon Detector

The ID281 Pro (ID Quantique) is a compact rack-mounted Superconducting Nanowire Single-Photon Detector. It is designed to be integrated in quantum platforms for photonic quantum computing or quantum communication systems. The ID281 Pro cryogenic system can host up to 16 superconducting nanowire single-photon detectors which can be selected from the comprehensive range of detectors developed and manufactured by ID Quantique.



<https://www.idquantique.com/id-quantique-launches-the-id281-pro/>

Quantum ready

by 



ECDL, TA amplifiers, ILA , Fibers

- ▲ 368 to 1620nm up to 25 W
- ▲ Linewidth of 5kHz
- ▲ Great Robustness
- ▲ Rapid & easy component replacement
- ▲ High feedback bandwidth

Wavemeters

- ▲ Stand alone, Ethernet or USB
- ▲ Accurate to 600MHz
- ▲ External battery compatible
- ▲ All the Visible : 370-1120nm
- ▲ Integrated PID



Electronics

Current noise density < 100pA/rHz

- ▲ Piezo controller
- ▲ Laser controller
- ▲ Temperature controller
- ▲ Current controller
- ▲ PI²D servo controller
- ▲ RF synthetisor up to 400MHz



FFC-100 Frequency Comb

Fractional stability < 10⁻²² at 10⁴s

- ▲ Transfer stability
- ▲ Optical clocks
- ▲ Frequency ruler
- ▲ Dual&multi-comb spectroscopy
- ▲ Quantum sensing, computing & cryptography
- ▲ Low-Phase-noise microwave generation

Various Accessoires & Options availables!

- ▲ Photodiode, zeeman coil, spectroscopic reference Rb,Cs,K and much more!
- ▲ Beat note detector, fiber-coupling port, laser heterodyne electro-optic module & faraday isolators



Your contact : Baptiste.Callendret@optonlaser.com