



Press Release

Geneva, January 28th 2020

ID Quantique launches the ID Qube Series

ID Quantique (IDQ), the world leader in Quantum-Safe security and Quantum Sensing, today announced the launch of the ID Qube Series, a compact and cost-effective series of modules for single-photon detection at telecom wavelengths.

Modular and versatile, the ID Qube Series is a comprehensive range of single-photon detectors designed to meet the requirements of photon counting applications such as quantum communications & Quantum Key Distribution (QKD), LiDAR, Fluorescence lifetime measurements, dynamic light scattering and many more.

IDQ has developed Plug-and-Play, ultra-low noise and compact modules for single-photon detection applications available either in free-running or gated mode for both asynchronous or synchronous single-photon detection.

Key benefits:

- Compact design
- Integrated photon counting capabilities
- Ultra-low dark count
- Low Jitter
- Free-running & gated modes (fast or slow gating)
- Free-space & fiber-coupled (SMF/MMF) options



In addition to the flexible and multi-coupling possibilities of the sensor, particular attention has been also paid to ensure that both the graphical and programming user interfaces are user-friendly and integrate interface with programming language, such as LabView, Python, Matlab, C/C++.

The ID Qube modules are available in free-space compatible with C-mount apparatus or fiber-coupled (SMF/MMF) versions, as well as base plate option to be coupled with standard optical tables, threads compatible with 30mm cage system. They offer the possibility to receive external pulses for fast and slow gating operations depending on the model.

The first module is optimised for fast-gated (up to 100 MHz) operations at telecom wavelengths, making it ideally suited for quantum communication protocol. A second module offers ultra-low noise free-running operation which is mainly required for asynchronous photon detection, photon correlation and Time of Flight measurement.

For even more efficiency in the lab, ID Quantique's products are specially designed to be easily and quickly combined with other devices. The ID Qube detectors can be operated together with the [ID900 Time Controller](#), IDQ's central platform which combines the functionalities of a Time-tagger, counter, delay and pattern generator. One ID900 Time Controller can be used to control up to 4 ID Qube modules.

ID Qube at SPIE Photonics West

The ID Qube series will be displayed at [SPIE Photonics West](#) show (booth # 4356) in San Francisco, USA, 1-6 February.

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We are thrilled to add the new ID Qube Series to the long list of pioneering photon counting solutions ID Quantique has developed over the last 2 decades.
said Marc Niklès, SVP Quantum Sensing at ID Quantique.

This new compact serie replaces IDQ's ID210 & ID221 detectors.

- ▶ Find out more about the [ID Qube NIR Gated](#)
- ▶ Find out more about the [ID Qube NIR Free-Running](#)

About ID Quantique

Founded in 2001 as a spin-off of the Group of Applied Physics of the University of Geneva, ID Quantique is the world leader in quantum-safe crypto solutions, designed to protect data for the future. The company provides quantum-safe network encryption, secure quantum key generation and Quantum Key Distribution solutions and services to the financial industry, enterprises and government organizations globally. IDQ's quantum random number generator has been validated according to global standards and independent agencies, and is the reference in highly regulated and mission critical industries – such as security, encryption, critical infrastructure and IoT – where trust is paramount.

Additionally, IDQ is a leading provider of optical instrumentation products, most notably photon counters and related electronics. The company's innovative photonic solutions are used in both commercial and research applications.

IDQ's products are used by government, enterprise and academic customers in more than 60 countries and on every continent. IDQ is proud of its independence and neutrality, and believes in establishing long-term and trusted relationships with its customers and partners.

For more information, please visit www.idquantique.com.

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