

The SPCM-AQRH is a self-contained module that detects single photons of light over the 400 nm to 1100 nm wavelength range - a range and sensitivity that outperforms a photomultiplier tube.

Thorlabs offers single photon detectors and counting modules with a range of photon detection efficiencies (PDEs), detector sizes, gain options, and wavelength ranges.

The proposed approach represents a scalable and efficient solution for automated quality control in optical module manufacturing, with potential applications in optical network maintenance ...

An integrated optimization approach is proposed, aligning front-end device design with back-end application needs, balancing detection efficiency, dark count rates, and temporal ...

Here, we report the development of a compact single-photon detector (SPD) module measured just 8.8 × 6 × 2 cm<sup>3</sup> in size and fully integrated with driving signal generation, faint ...

The Fast Gated Single Photon Avalanche Diode (SPAD) module is a compact detection module capable of gating a silicon SPAD for wide dynamic range optical measurement.

As quantum technologies advance, the need for accurate single photon detection becomes critical across various applications, from secure communications to quantum computing.

We have developed a new position-sensitive optical fiber radiation sensor that achieves single-end readout and high dose rate application. The sensor determines the incident position of ...

CR600 60Gbaud Optical/Electrical Clock Data Recovery Unit Integrated Measurement of 3D Measurement and Return Loss MT Pro Single/Multi-Channel Integrated Interferometer On-Site Fiber ...

The papers in this special section -- of Optical Engineering provide a snapshot of some of the recent work that has focused on promising new single-photon component technologies and applications.

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