Anti-Electro-Tracking Detector for Quantum Communication Fiber Optic Endface Detection

The AMFITRACK(TM) electromagnetic (EMF) tracking system can be used for a wide range of applications. Key system features are full six degrees of freedom (6DOF) tracking, high precision, ...

The FIP100 from Tempo is a fully automated inspection tool that provides fast and reliable analysis of fiber optic connector end faces and bulkheads. With a single button press, the FIP100 automatically ...

Quantum sensing applications based on optical fiber quantum states and optical fiber interferometers were discussed and the potential application of optical fiber systems for quantum ...

Alexandra Popp from the Max Planck Institute for the Science of Light (MPL) and from Friedrich-Alexander-Universität (FAU) Erlangen-Nürnberg has created a novel approach to track ...

The HTO-7000B Integrated Fiber End Face Detector is a handheld solution for inspecting fiber connector surfaces such as SC, FC, and LC types. It features a built-in high-resolution LCD display, ...

Results were presented from developing photon detectors and emitters that are promising for use in quantum cryptography systems and miniature quan-tum frequency standards based on the effect of ...

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We show that by adjusting the quantum efficiency and dark count rates of detectors, proposed system can establish secure keys up to 380 km distance using standard telecom grade ...

In this work, we have rigorously introduced the empty-signal detection (ESD) paradigm as a theoretical framework to address the long-standing problem of quantum bit error rate (QBER) explosion in ...

This section reviews the relevant research on all-optical-fiber nonlinear interferometers, optical fiber Sagnac interferometers, and optical fiber Mach-Zehnder interferometers in quantum sensing.

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