

Quantum dot scintillating fibers are compared to a commercial CdTe detector. Atomic energy change from x-rays releases visible photons from scintillator material. Photons are captured in waveguide ...

The paper presents a set of tests carried out in order to evaluate the design characteristics and the operating performance of a set of six X-ray extrinsic optical fiber sensors.

In this work, we designed and produced an optic fiber X-ray sensor array with high spatial resolution. The sensing array includes 7 sensing probes connecting to an 8-channel optical switch and a photon ...

In response, a novel ratiometric optical fiber X-ray sensor based on a NaGdF₄:15Tb nanoparticle and CaAl₂O₄:Eu/Nd phosphor integrated film is developed. This sensor enables ...

This article compares the X-ray performance of CMOS X-ray detectors in various configurations by varying parameters such as fiber optic face plate use, scintillator substrate coating, sensor pixel ...

At present, X-ray detectors are mainly used for two purposes, dosage detection (single pixel detectors) and imaging (detector arrays). Compared with other counterparts, like flat panel ...

Digital Fiber Optic Sensors FS-N series Digital Fiber Optic Sensor FS-V30 series What is a Fiber Optic Sensor? A fiber optic sensor is an instrument that measures light from an LED (or other device) for ...

The X-ray FDS Detector is a high resolution X-ray digital detector with direct coupled (micro) fiber-optic input that protects the sensor against...

Our high-resolution, high-speed x-ray sensors set the performance standard for medical and inspection imaging. In addition to distinctive sensor designs, we have extensive experience in applying variable ...

In this paper, two approaches have been adopted to optimize the design of optical fiber X-ray sensors (OFXS). One approach involves using the hemisphere tip structure OFXS, while the ...

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