

X-ray sensor module



AI Overview

X-ray radiation sensor modules are specialized devices designed for detecting and measuring X-ray radiation, commonly used in various applications such as industrial inspection, medical imaging, and security. Types of X-Ray Radiation Sensor Modules

Silicon Photodiode Sensors: These sensors are often used in baggage inspection and non-destructive testing. They can be coupled with scintillators to enhance sensitivity and are available in various configurations, including arrays for improved detection capabilities.

High-Performance Imaging Systems: For example, the MeasureX 05293500 X-ray Controller Assembly is designed for high-resolution imaging applications. It features a silicon drift detector and operates in a range from 200 kV to 600 kV, making it suitable for industries like aerospace and automotive.

Remote X-Ray Detectors: The Remote RadEye HR X-ray detector is a lightweight and rugged solution for high-resolution radiation imaging, ideal for industrial inspections in tight spaces. It connects to a PC via USB, allowing for easy data management.

Gamma Counting Modules: Some modules, like those based on YSO and SiPM, are designed for gamma counting and energy measurements. They are compact, low-power, and stable under various environmental conditions, making them versatile for different applications.

Applications

Industrial Inspection: X-ray sensors are widely used in non-destructive testing to inspect materials and components for defects without causing damage.

Medical Imaging: These sensors play a crucial role in diagnostic imaging, allowing for detailed visualization of internal structures.

Security: X-ray radiation sensors are essential in security applications, such as baggage screening at airports, to detect concealed items.

Conclusion

X-ray radiation sensor modules are critical tools in various fields, providing essential capabilities for detecting and measuring X-ray radiation. With advancements in technology, these sensors continue to evolve, offering improved sensitivity, resolution, and ease of use for professional...

Article Content

Materials innovation and electrical engineering in X-ray detection

This Review examines fundamental principles and recent breakthroughs in X-ray detection and imaging technologies, with a focus on the interplay between electrical engineering

Global Supplier of X-ray Detectors & Sensor Modules

A global leader in the development and manufacture of X-ray & light detector electronics, modules, systems and instruments Find out more About us Sens-Tech Ltd is an established UK company

X-ray systems design resources | TI

Our integrated circuits and reference designs help you create high resolution X-ray systems with advanced wireless connectivity features. Design requirements Modern X-ray systems often require:

X-ray Image Sensor | Image Sensor for Scientific Use | Image Sensor ...

The IMX711 is an X-ray image sensor that employs a direct conversion and integration type CMOS technology, in which X-rays and electron beams are detected directly.

Medical X-Ray Detectors | Teledyne DALSA

Axios IGZO medical and dental X-ray detectors delivering high performance at a great price point. High speed, low dose imaging at high resolutions for applications including surgical and orthopedic x-ray,

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The ams OSRAM Group (SIX: AMS) is a global leader in innovative light and sensor solutions. With more than 110 years of industry experience, we combine engineering excellence and global

Radiation Alarm Monitors & Detectors: X, y and Gamma

Gamma Sensor Module – Cesium iodide crystal & photodiode, and a high-gain preamplifier This 3cc Cesium Iodine Gamma Sensor Module consists of a cesium iodide crystal, a photodiode, and a high

CMOS Sensors For Electron and X-Rays Detectors

Wafer Scale CMOS image sensors are nowadays widely used for medical X-Ray imaging as a replacement for amorphous silicon flat panels.

Product series

Explore our industrial X-ray product series. Everything from sealed and open stationary X-ray modules to integrated, portable and mobile X-ray modules – find out what X-ray solution works for you.

LAMBDA for X-rays – X-Spectrum

Up to four sensor heads connected by cables up to one metre in length enable X-ray detection in space-constrained environments and allow simultaneous measurements from multiple directions. LAMBDA

Radiation & X-ray sensors | Hamamatsu Photonics

Flat panel devices for x-ray imaging that can be directly coupled to a commercial CCD for real-time radiography. Suitable for a wide range of fields

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Ad hoc Announcement pursuant to Art. 53 Listing Rules of SIX Swiss Exchange
----- ams OSRAM sells non-optical analog/mixed-signal sensor business to Infineon for

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Sens-Tech photomultiplier tube modules and XDAS electronics are used for chemiluminescence, CT and other photon detection applications by global

RaySafe X2Diagnostic X-Ray Test System with MAM & R/F Sensors

RaySafe X2 Diagnostic X-Ray Test System with MAM and R/F sensors powers fast imaging QA with touchscreen measurement for radiographic, fluoroscopic, dental, CT kVp/HVL, and mammography

X-RAY Sensor GmbH.

X-Ray Sensor GmbH offers a new approach to quantitative XRF Analysis. Instead of using traditional benchtop laboratory XRF instruments, we offer turnkey X-Ray Sensors for industrial applications

X-Ray Sensors

Our Sensors use X-rays to detect changes in fluorescence intensity for specific elements that require monitoring in industrial processes. This innovative approach makes our X-ray sensor technology a

3D X-Ray Detector Modules based on Through Silicon

Fraunhofer IZM in Berlin and AGH University of Science and Technology in Krakow have developed 3D hybrid pixel detector modules for X-ray imaging. Each

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ams OSRAM boasts the broadest set of cutting-edge optical semiconductor technology platforms in emitters including specialized driver and power

XDAS X-ray Detector Boards & Sensors | Sens-Tech

XDAS X-ray data acquisition electronics provides the most flexible way of creating X-ray sensor arrays which are read out digitally at high speed. Sens-Tech supplies a range of XDAS acquisition and

Detector Packaging for Medical X-Ray Imaging and X-Ray

Hybrid pixel detector modules are state of the art components in X-ray cameras used in synchrotron radiation experiments and for X-ray imaging applications. In synchrotrons these photon-counting

X-ray Line-Scan Detector Boards

X-ray Line-Scan Detector Boards State-of-the-art CMOS Linear Diode Array Detector Boards X-Scan Imaging Corporation manufactures a family of single-chip, buttable CMOS silicon linear diode array

Technical note / X-ray detectors

Panoramic X-ray imaging devices capture images by using the X-ray source and detector unit designed to rotate around the patient's head. By TDI operation, they are expected to be applied for a

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