

X-Ray Detector for Non-Destructive Testing Market: Exclusive Report on the Latest Trends and Opportunities in the Future

X-Ray Detector for Non-Destructive Testing Market Expected to Reach \$231,811 Thousand, Globally, by 2022

WILMINGTON, DELAWARE, UNITED STATES, August 22, 2024 /EINPresswire.com/ -- The benefits

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The decline in X-ray detector prices boosts adoption across industries, improving detection quality & productivity. Automation's rise drives demand for advanced X-ray systems.”

Allied Market Research

as improved profit margins return on investments and advancement in technology in the area of not destructive testing market, propel the market growth. Allied Market Research, titled, [X-Ray Detector for Non-Destructive Testing Market](https://www.alliedmarketresearch.com/request-sample/4552) by Type (CR System, Static Flat Panel Detector, Dynamic Flat Panel Detector, and Linear Sensor) and Application (Aerospace & Defense, Automotive, Construction, Electronics & Semiconductors, Energy & Power, Explosive Ordnance Disposal (EOD) & Improvised Explosive Device (IED), Heavy Industries, Manufacturing, Marine, Oil & Gas, Security, Transportation, Food Drugs &

Drugs, and Others): Global Opportunities Analysis and Industry Forecast, 2014-2022, the X-ray for non-destructive testing market was valued at \$ 129,939 thousand in 2014, and is projected to reach at \$ 231,811 thousand by 2022, growing at a CAGR of 7.31% from 2014 to 2022.

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An X-ray detector is an electronic device that detects radiation of X-ray or gamma rays for imaging purposes. X-ray imaging is an important non-destructive testing (NDT) technique for products such as circuit boards, concrete parts, and metals. This technique is also useful for detecting cracks and very fine manufacturing defects, thus maintaining quality, product reliability, and various other physical properties of the materials.

In 2014, the CR system for non-destructive testing market segment dominated the market, in terms of revenue, as industries such as aerospace and automotive witnessed high adoption rates of X-ray detectors due to their ability to provide high image quality and accuracy.

North America was the highest revenue contributor to the X-ray for the non-destructive testing market in 2014, accounting for around 29.9% share, owing to an increase in performance and efficiency of these detectors.

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The decline in prices of X-ray detectors has increased the adoption of X-ray detection systems in

industries such as food, drinks, & drugs, construction, and transportation to improve detection quality, finished product quality (especially for food, drinks & drugs, and construction industry), and simultaneously reduce detection time to increase the productivity.

In the present scenario, market players have witnessed a technological shift and have focused

on process automation to minimize human intervention. The aerospace & defense, automotive, and oil & gas sectors have witnessed extensive use of automated X-ray detector systems, owing to the time constraints associated with the execution of multiple detection tasks simultaneously with better accuracy.

Progressive changes in technology starting from computed radiography to digital radiography

along with the use of flat panel detectors have improved the efficiency of X-ray detectors, thereby creating an opportunity shortly.

The report features a competitive scenario of the X-ray for the non-destructive testing market and provides a comprehensive analysis of key growth strategies adopted by major players. The key players profiled in the study are GE Healthcare, Siemens, and others. These players have adopted competitive strategies such as innovation, new product development, and market expansion to boost the growth of the market.

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The linear sensor X-ray for non-destructive testing market segment accounted for the highest

share in 2014, growing at a CAGR of 8.87% from 2014 to 2022.

- The CR system segment generated the highest revenue, accounting for \$55,052 thousand in 2014.
- North America is expected to dominate the market, in terms of market share, during the forecast period.

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