+44 20 8123 2220
info@marketpublishers.com

X-ray Inspection System Market by Technology (Film Based Imaging, Digital Imaging, Computed Tomography, Computed Radiography, Direct Radiography), Dimension (2D, 3D), Vertical (Government Infrastructure, Automotive) & Region-Global Forecast to 2028

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Abstracts

The global X-ray inspection system market was valued at USD 0.8 billion in 2023 and is estimated to reach USD 1.1 billion by 2028, registering a CAGR of 6.2% during the forecast period. Increasing focus on safety and quality in food industry, increasing densification of circuit board mounting, rapid urbanization and technological advancements fuels the market. Moreover, rising level of automation is fueling the demand for X-ray inspection system market. These trends is leading to the growth of the X-ray inspection system market.

“Digital imaging is expected to grow at the highest CAGR during the forecast period.”

The digital imaging segment is growing at the highest CAGR in the X-ray inspection system market. The segment’s growth is attributed to the effortless incorporation of digital imaging-based X-ray inspection systems into current production lines, reduced film and chemicals costs, heightened operational efficiency, and enhanced defect detection capabilities. These combined factors establish them as the favored option for industries in search of top-tier, efficient solutions for non-destructive testing and inspection, ultimately eliminating the need for expensive recalls or rework.

“3D segment is projected to grow fastest in X-ray inspection system market.”

The 3D segment is growing at the highest CAGR in the X-ray inspection system market due to the escalating demand for precise inspections. Stringent regulations within various industries, including aerospace, food and beverage, and pharmaceuticals, are contributing to this growth. The emergence of advanced materials, such as composites and 3D-printed components, necessitates 3D inspection for the accurate assessment of their internal structures. This development aligns with the broader trend toward the adoption of lighter, stronger, and more complex materials.

“US is projected to dominate in North America region for X-ray inspection system market”

US is having the largest market share in the X-ray inspection system market due to several factors. The nation boasts a robust representation of prominent manufacturers in the field of X-ray inspection systems, including Mettler Toledo, Nordson Corporation, and North Star Imaging Inc. The United States exhibits a wide-ranging industrial landscape, spanning sectors like aerospace, automotive, electronics, healthcare, and food processing, all of which depend significantly on X-ray inspection systems for maintaining quality standards and regulatory compliance. These factors collectively serve as pivotal drivers for the expansion of the X-ray inspection system market within the country.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the X-ray inspection system marketplace.

By Company Type: Tier 1 – 25%, Tier 2 – 30%, and Tier 3 – 45%

By Designation: C-level Executives – 25%, Directors – 35%, and Others – 40%

By Region: North America– 20%, Europe – 30%, Asia Pacific– 40% and RoW- 10%

Mettler Toledo (US), Nordson Corporation (US), Comet Group (Switzerland), Anritsu (Japan), Viscom AG (Germany), North Star Imaging Inc. (US), Nikon Corporation (Japan), Ishida Co. Ltd. (Japan), Omron Corporation (Japan), and Toshiba IT & Control Systems Corporation (Japan), are some of the key players in the X-ray inspection system market market.

The study includes an in-depth competitive analysis of these key players in the X-ray inspection system market, with their company profiles, recent developments, and key market strategies.

Research Coverage

This research report categorizes the X-ray inspection system market by technology (Digital Imaging, Film Based Imaging), by dimension (2D, 3D), by vertical (Manufacturing, Oil & Gas, Aerospace, Government Infrastructure, Automotive, Power Generation, Food & Beverage, Others), and by region (North America, Europe, Asia Pacific, and RoW). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the X-ray inspection system market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements. new product & service launches, mergers and acquisitions, and recent developments associated with the X-ray inspection system market. Competitive analysis of upcoming startups in the X-ray inspection system market ecosystem is covered in this report.

Reasons to buy this report

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall X-ray inspection system market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

> Analysis of key drivers (Tighter manufacturing tolerances, increased densification of circuit board mounting, increasing awareness among the consumers, and increasing focus on safety and quality in food industry), restraints (high costs associated with X-ray inspection systems, and concerns for radiation exposure), opportunities (Rising level of automation in the field of manufacturing, and rising focus on safety and quality of products in emerging economies), and challenges (complexity in integration of X-ray inspection system with existing production line, and availability of substituent alternative

inspection technologies) influencing the growth of the X-ray inspection system market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the X-ray inspection system market

Market Development: Comprehensive information about lucrative markets – the report analyses the X-ray inspection system market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the X-ray inspection system market

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Mettler Toledo (US), Nordson Corporation (US), Comet Group (Switzerland), Anritsu (Japan), Viscom AG (Germany), North Star Imaging Inc. (US), Nikon Corporation (Japan), Ishida Co. Ltd. (Japan), Omron Corporation (Japan), Toshiba IT & Control Systems Corporation (Japan) among others in the X-ray inspection system market.

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