Infrared Thermography Market for Building Inspection by Product (Cameras, Scopes, Modules), Solution (Handheld Thermal Camera, Fixed Mount Camera, Unmanned Infrared System), Platform (IR lens, Uncooled IR detector), Building Type - Global Forecast to 2028

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Report description:

The infrared thermography market for building inspection is projected to reach USD 606 million by 2028 from USD 445 million in 2023, at a CAGR of 6.4% from 2023 to 2028. Penetration of infrared cameras in the consumer electronics industry and emerging infrared imaging applications in automotive sector are the major opportunities that lie in front of the market.
Increasing demand for thermal modules to propel market growth.
Thermal modules play a key role in several systems used for delivering superior image quality. They are designed and manufactured for easy and efficient integration in higher-level assemblies and platforms. They offer two main advantages- (i) the ability to measure temperature (ii) vision in complete darkness. They are available in small sizes, are lightweight, and consume low power and produce the same image under different light conditions. They are suitable for inspection applications and are integrated into UAVs, telescopes, and aimers. Along with technological advancements, thermal module manufacturers have been developing low-cost and smaller cores to cater to the global demand.
High adoption of thermal scopes accelerating market growth.
Thermal scopes have emerged as essential tools for precise building inspection. By detecting temperature variations, they unveil hidden problems like insulation issues, water leaks, and electrical anomalies. These scopes provide rapid, non-destructive assessments, enabling proactive maintenance and cost-effective repairs. These scopes are used in diagnostics and veterinary, building and construction checks, search and rescue, hunting, forestry, airport security, and border control.
Increased usage of thermal cameras for moisture detection in buildings
Moisture inspection using thermal imaging in buildings involves the use of infrared cameras to detect temperature variations on

surfaces, revealing potential areas of moisture accumulation or leaks. As moisture affects thermal properties, wet regions display different temperatures than dry areas. During the inspection, these cameras scan building components like walls, ceilings, and floors, creating visual images that highlight anomalies.

North America is expected to account for largest market share during the forecast period.

The market in North America accounted for the largest share of the infrared imaging market in 2023. The presence of major service providers in the North American region and moreover, the focus of the building owners towards adopting predictive maintenance, makes this region a prominent market for infrared thermographic inspections. Overall, the combination of increasing demand in the building and construction industry, increased adoption in building inspection, technological advancements, and the presence of major producers has led to the growth of infrared thermography in building inspection in North America.

The break-up of profile of primary participants in the infrared thermography market for building inspection-

-By Company Type: Tier 1 - 38%, Tier 2 - 28%, Tier 3 - 34%

-By Designation Type: C Level - 40%, Director Level - 30%, Others - 30%

-By Region Type: North America - 35%, Europe - 20%, Asia Pacific - 35%, Rest of the World - 10%

The major players of infrared thermography market for building inspection are Teledyne FLIR LLC (US), Fluke Corporation (US), Axis Communications AB (Sweden) and many more.

Research Coverage

The report segments the infrared market and forecasts its size based on Product Type, Solution Type, Application, Building Type and Region. The report also provides a comprehensive review of drivers, restraints, opportunities, and challenges influencing market growth. The report also covers qualitative aspects in addition to the quantitative aspects of the market.

Reasons to buy the report:

The report will help the market leaders/new entrants in this market with information on the closest approximate revenues for the overall infrared imaging market and related segments. This report will help stakeholders understand the competitive landscape and gain more insights to strengthen their position in the market and 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, opportunities, and challenges.

The report provides insights on the following pointers:

-Market Dynamics: Analysis of key drivers (Increasing adoption of non-destructive testing; Increasing emphasis on energy efficiency and sustainability; Cost-effectiveness and time efficiency), restraints (Export restriction imposed on thermal imaging products; Initial investment and training costs), opportunities (Integration with Building Information Modeling (BIM); Growing demand for smart buildings), and challenges (Data analysis and reporting complexity; Environmental and safety regulations for buildings are not strictly enforced in emerging economies).

-Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the infrared thermography market for building inspection

-Market Development: Comprehensive information about lucrative markets - the report analyses the infrared thermography market for building inspection across varied regions

-Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the infrared thermography market for building inspection

-Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players like Teledyne FLIR LLC (US), JENOPTIK AG (Germany), SKF (Sweden), Fluke Corporation (US), Raytheon Technologies Corporation (US), Axis Communications AB (Sweden), Inc, Xenics nv (Belgium), Zhejiang Dali Technology Co.,Ltd. (China), OPGAL Optronics Industries Ltd (Israel), InfraTec GmbH (Germany), Seek Thermal (US), Infrared Cameras Inc. (US) and Allied Vision Technologies GmbH (Germany) among others.

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