

# Global AI-Powered Thermal Imaging Systems Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global AI-Powered Thermal Imaging Systems market size was valued at US\$ 7890 million in 2025 and is forecast to a readjusted size of US\$ 13639 million by 2032 with a CAGR of 8.1% during review period.

An AI-powered thermal imaging system is a sensing and analytics solution that combines thermal (infrared) cameras with artificial intelligence algorithms to automatically interpret heat signatures. Beyond displaying temperature differences, the system uses AI to detect, classify, and analyze objects or anomalies in real time, enabling functions such as human/vehicle recognition, overheating detection, fire early warning, predictive maintenance, and intelligent alerts—often operating 24/7 in darkness, smoke, fog, or harsh environments. Advanced AI-powered thermal imaging solutions (high resolution, deep analytics, networked systems) can cost \$8,000 – \$20,000+ per unit or more.

This report is a detailed and comprehensive analysis for global AI-Powered Thermal Imaging Systems market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global AI-Powered Thermal Imaging Systems market size and forecasts, in consumption value (\$ Million), 2021-2032

Global AI-Powered Thermal Imaging Systems market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global AI-Powered Thermal Imaging Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global AI-Powered Thermal Imaging Systems market shares of main players, in revenue (\$ Million), 2021-2026

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for AI-Powered Thermal Imaging Systems
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global AI-Powered Thermal Imaging Systems market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne FLIR (USA), L3Harris Technologies (USA), Hangzhou Huirui Technology (China), Leonardo DRS (USA/Italy), RTX Corporation / Raytheon Technologies (USA), Seek Thermal (USA), BAE Systems (UK), InfraTec GmbH (Germany), Workswell s.r.o. (Czech Republic), ULIRVISION (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AI-Powered Thermal Imaging Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

AI-Assisted (Basic Object Detection)

AI-Enabled (Classification & Tracking)

AI-Driven (Predictive Analytics & Autonomous Decision-Making)

#### Market segment By Component

Thermal Cameras / Sensors

AI Analytics Software

Edge AI Processors

System Integration & Services

#### Market segment by Application

Government & Defense

Industrial & Manufacturing

Healthcare Institutions

Transportation & Automotive

Residential / Consumer

#### Market segment by players, this report covers

Teledyne FLIR (USA)

L3Harris Technologies (USA)

Hangzhou Huirui Technology (China)

Leonardo DRS (USA/Italy)

RTX Corporation / Raytheon Technologies (USA)

Seek Thermal (USA)

BAE Systems (UK)

InfraTec GmbH (Germany)

Workswell s.r.o. (Czech Republic)

ULIRVISION (China)

Hikvision Digital Technology (China)

Dahua Technology (China)

Opgal Optronics Industries (Israel)

Axis Communications AB (Sweden)

Teledyne DALSA (Canada)

Infrared Cameras Inc. (USA)

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe AI-Powered Thermal Imaging Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI-Powered Thermal Imaging Systems, with revenue, gross margin, and global market share of AI-Powered Thermal Imaging Systems from 2021 to 2026.

Chapter 3, the AI-Powered Thermal Imaging Systems competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and AI-Powered Thermal Imaging Systems market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI-Powered Thermal Imaging Systems.

Chapter 13, to describe AI-Powered Thermal Imaging Systems research findings and conclusion.

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