

# Global AI-Powered Thermal Imaging Systems Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global AI-Powered Thermal Imaging Systems market size is predicted to grow from US\$ 7501 million in 2025 to US\$ 13335 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

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.

United States market for AI-Powered Thermal Imaging Systems is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI-Powered Thermal Imaging Systems is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI-Powered Thermal Imaging Systems is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI-Powered Thermal Imaging Systems players cover Teledyne FLIR (USA), L3Harris Technologies (USA), Hangzhou Huirui Technology (China), Leonardo DRS

(USA/Italy), RTX Corporation / Raytheon Technologies (USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "AI-Powered Thermal Imaging Systems Industry Forecast" looks at past sales and reviews total world AI-Powered Thermal Imaging Systems sales in 2025, providing a comprehensive analysis by region and market sector of projected AI-Powered Thermal Imaging Systems sales for 2026 through 2032. With AI-Powered Thermal Imaging Systems sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI-Powered Thermal Imaging Systems industry.

This Insight Report provides a comprehensive analysis of the global AI-Powered Thermal Imaging Systems landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on AI-Powered Thermal Imaging Systems portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI-Powered Thermal Imaging Systems market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI-Powered Thermal Imaging Systems and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global AI-Powered Thermal Imaging Systems.

This report presents a comprehensive overview, market shares, and growth opportunities of AI-Powered Thermal Imaging Systems market by product type, application, key players and key regions and countries.

Segmentation by Type:

AI-Assisted (Basic Object Detection)

AI-Enabled (Classification & Tracking)

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

### Segmentation By Component:

Thermal Cameras / Sensors

AI Analytics Software

Edge AI Processors

System Integration & Services

### Segmentation by Application:

Government & Defense

Industrial & Manufacturing

Healthcare Institutions

Transportation & Automotive

Residential / Consumer

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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 Optronic Industries (Israel)

Axis Communications AB (Sweden)

Teledyne DALSA (Canada)

Infrared Cameras Inc. (USA)

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