

Global AI-Powered Thermal Imaging Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI-Powered Thermal Imaging Systems market size is expected to reach \$ 13639 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global AI-Powered Thermal Imaging Systems demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-Powered Thermal Imaging Systems, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI-Powered Thermal Imaging Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-Powered Thermal Imaging Systems total market, 2021-2032, (USD Million)

Global AI-Powered Thermal Imaging Systems total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI-Powered Thermal Imaging Systems total market, key domestic companies, and share, (USD Million)

Global AI-Powered Thermal Imaging Systems revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI-Powered Thermal Imaging Systems total market by Type, CAGR, 2021-2032, (USD Million)

Global AI-Powered Thermal Imaging Systems total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world AI-Powered Thermal Imaging Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI-Powered Thermal Imaging Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-Powered Thermal Imaging Systems Market, Segmentation by Type:

AI-Assisted (Basic Object Detection)

AI-Enabled (Classification & Tracking)

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

Global AI-Powered Thermal Imaging Systems Market, Segmentation By Component:

Thermal Cameras / Sensors

AI Analytics Software

Edge AI Processors

System Integration & Services

Global AI-Powered Thermal Imaging Systems Market, Segmentation by Application:

Government & Defense

Industrial & Manufacturing

Healthcare Institutions

Transportation & Automotive

Residential / Consumer

Companies Profiled:

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)

Key Questions Answered

1. How big is the global AI-Powered Thermal Imaging Systems market?
2. What is the demand of the global AI-Powered Thermal Imaging Systems market?
3. What is the year over year growth of the global AI-Powered Thermal Imaging Systems market?
4. What is the total value of the global AI-Powered Thermal Imaging Systems market?
5. Who are the Major Players in the global AI-Powered Thermal Imaging Systems market?
6. What are the growth factors driving the market demand?

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