

Global AI-Powered Thermal Cameras Market Growth 2026-2032

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Abstracts

The global AI-Powered Thermal Cameras market size is predicted to grow from US\$ 2392 million in 2025 to US\$ 4980 million in 2032; it is expected to grow at a CAGR of 11.1% from 2026 to 2032.

In 2025, global AI-Powered Thermal Cameras production reached approximately 1.2 million units, with an average global market price of around US\$ 2000 per unit. Annual production capacity is 1.6 million units. Gross Profit Margin: 40%. An AI-Powered Thermal Camera is a thermal imaging device that incorporates artificial intelligence (AI) algorithms directly into the camera's processing system to enhance how the thermal data is interpreted and used. The AI-powered thermal camera industry chain consists of infrared sensor and component suppliers upstream, camera manufacturers and AI system integrators midstream, and distributors and end users downstream across security, industrial, healthcare, automotive, and defense applications. AI-powered thermal cameras are rapidly shifting from niche sensing tools to mainstream intelligent perception systems, as embedded AI significantly improves accuracy, automation, and decision-making.

United States market for AI-Powered Thermal Cameras 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 Cameras 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 Cameras 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 Cameras players cover Teledyne FLIR, Hikvision Digital Technology Co., Ltd., Raytron, Seek Thermal, Inc., Lynred, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “AI-Powered Thermal Cameras Industry Forecast” looks at past sales and reviews total world AI-Powered Thermal Cameras sales in 2025, providing a comprehensive analysis by region and market sector of projected AI-Powered Thermal Cameras sales for 2026 through 2032. With AI-Powered Thermal Cameras 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 Cameras industry.

This Insight Report provides a comprehensive analysis of the global AI-Powered Thermal Cameras landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI-Powered Thermal Cameras 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 Cameras market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI-Powered Thermal Cameras 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 Cameras.

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

Segmentation by Type:

Fixed Thermal Cameras

Portable / Handheld Thermal Cameras

Wearable & Head-Mounted Thermal Devices

Segmentation by Deployment Mode:

Edge-Based AI Cameras

Cloud-Integrated AI Cameras

Hybrid Systems

Segmentation by Application:

Commercial & Industrial Enterprises

Government & Defense Agencies

Healthcare Institutions

Transportation & Infrastructure Operators

Residential / Consumer Users

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 analysing the company's coverage, product portfolio, its

market penetration.

Teledyne FLIR

Hikvision Digital Technology Co., Ltd.

Raytron

Seek Thermal, Inc.

Lynred

Dahua Technology Co., Ltd.

Axis Communications

Opgal Optronic Industries Ltd.

InfraTec GmbH

Testo SE & Co. KGaA

SATIR Europe

Workswell s.r.o.

Fluke Corporation

Bullard

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI-Powered Thermal Cameras market?

What factors are driving AI-Powered Thermal Cameras market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI-Powered Thermal Cameras market opportunities vary by end market size?

How does AI-Powered Thermal Cameras break out by Type, by Application?

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