

Global AI-Powered Thermal Cameras Market 2026 by Manufacturers, 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 Cameras market size was valued at US\$ 2516 million in 2025 and is forecast to a readjusted size of US\$ 5057 million by 2032 with a CAGR of 10.4% during review period.

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.

This report is a detailed and comprehensive analysis for global AI-Powered Thermal Cameras market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Cameras market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI-Powered Thermal Cameras market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI-Powered Thermal Cameras market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global AI-Powered Thermal Cameras market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Cameras

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 Cameras market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne FLIR, Hikvision Digital Technology Co., Ltd., Raytron, Seek Thermal, Inc., Lynred, Dahua Technology Co., Ltd., Axis Communications, Opgal Optronics Industries Ltd., InfraTec GmbH, Testo SE & Co. KGaA, etc.

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

Market Segmentation

AI-Powered Thermal Cameras 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fixed Thermal Cameras

Portable / Handheld Thermal Cameras

Wearable & Head-Mounted Thermal Devices

Market segment by Deployment Mode

Edge-Based AI Cameras

Cloud-Integrated AI Cameras

Hybrid Systems

Market segment by Application

Commercial & Industrial Enterprises

Government & Defense Agencies

Healthcare Institutions

Transportation & Infrastructure Operators

Residential / Consumer Users

Major players covered

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

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of AI-Powered Thermal Cameras, with price, sales quantity, revenue, and global market share of AI-Powered Thermal Cameras from 2021 to 2026.

Chapter 3, the AI-Powered Thermal Cameras competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI-Powered Thermal Cameras breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI-Powered Thermal Cameras market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI-Powered Thermal Cameras.

Chapter 14 and 15, to describe AI-Powered Thermal Cameras sales channel, distributors, customers, research findings and conclusion.

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