

Global AI-Enabled Thermal Security Cameras Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI-Enabled Thermal Security Cameras market size is expected to reach \$ 5402 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, global AI-Enabled Thermal Security Cameras production reached approximately 1.2 million units, with an average global market price of around US\$ 3000 per unit. Annual production capacity is 1.5 million units. Gross Profit Margin: 37%. AI-Enabled Thermal Security Cameras are advanced surveillance devices that combine thermal imaging with artificial intelligence algorithms to detect, recognize, and analyze objects or human activity in real time. The AI thermal security camera industry chain flows from sensor and AI component suppliers, to camera manufacturers, and finally to distributors, system integrators, and end users like industrial sites, smart cities, and commercial facilities. AI-enabled thermal security cameras are game-changers for modern surveillance.

This report studies the global AI-Enabled Thermal Security Cameras production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-Enabled Thermal Security Cameras 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-Enabled Thermal Security Cameras that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-Enabled Thermal Security Cameras total production and demand, 2021-2032,

(K Units)

Global AI-Enabled Thermal Security Cameras total production value, 2021-2032, (USD Million)

Global AI-Enabled Thermal Security Cameras production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI-Enabled Thermal Security Cameras consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI-Enabled Thermal Security Cameras domestic production, consumption, key domestic manufacturers and share

Global AI-Enabled Thermal Security Cameras production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI-Enabled Thermal Security Cameras production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI-Enabled Thermal Security Cameras production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI-Enabled Thermal Security Cameras market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne Technologies (NYSE: TDY, USA), Hikvision Digital Technology (SZSE: 002415, China), Dahua Technology (SSE: 002236, China), Bosch Security Systems (Private/Family, Germany), Axis Communications (Private via Canon, Japan/Sweden), Hanwha Vision (KRX: 012450 via Hanwha Group, South Korea), Honeywell International (NASDAQ: HON, USA), Raytheon Technologies (RTX Corp.) (NYSE: RTX, USA), L3Harris Technologies (NYSE: LHX, USA), BAE Systems (LSE: BA, UK), 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-Enabled Thermal Security Cameras market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, 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-Enabled Thermal Security Cameras Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-Enabled Thermal Security Cameras Market, Segmentation by Type:

Fixed AI Thermal Cameras

Pan-Tilt-Zoom (PTZ) AI Thermal Cameras

Handheld / Portable AI Thermal Cameras

Hybrid Cameras

Global AI-Enabled Thermal Security Cameras Market, Segmentation by AI Features:

Intrusion / Motion Detection

Facial Recognition

Vehicle / Object Detection & Tracking

Anomaly & Behavior Analysis

Global AI-Enabled Thermal Security Cameras Market, Segmentation by Application:

Government & Defense Agencies

Industrial Enterprises & Facilities Managers

Security Service Providers / Integrators

Companies Profiled:

Teledyne Technologies (NYSE: TDY, USA)

Hikvision Digital Technology (SZSE: 002415, China)

Dahua Technology (SSE: 002236, China)

Bosch Security Systems (Private/Family, Germany)

Axis Communications (Private via Canon, Japan/Sweden)

Hanwha Vision (KRX: 012450 via Hanwha Group, South Korea)

Honeywell International (NASDAQ: HON, USA)

Raytheon Technologies (RTX Corp.) (NYSE: RTX, USA)

L3Harris Technologies (NYSE: LHX, USA)

BAE Systems (LSE: BA, UK)

Opgal Optronics Industries (TASE: OPG, Israel)

FLUKE Corporation (Fortive Corp.) (NYSE: FTV, USA)

Pelco (Motorola Solutions) (NYSE: MSI, USA)

Pelco (NYSE: MSI, USA)

Seek Thermal (Private, USA)

Uniview / Uniview Technologies (SZSE: 300232, China)

Bosch Thermotechnology Division (Private, Germany)

Key Questions Answered:

1. How big is the global AI-Enabled Thermal Security Cameras market?
2. What is the demand of the global AI-Enabled Thermal Security Cameras market?
3. What is the year over year growth of the global AI-Enabled Thermal Security Cameras market?
4. What is the production and production value of the global AI-Enabled Thermal Security Cameras market?
5. Who are the key producers in the global AI-Enabled Thermal Security Cameras market?
6. What are the growth factors driving the market demand?

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