

Global Military Infrared Thermal Imager Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Military Infrared Thermal Imager market size is expected to reach \$ 2772 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, the global production of Military Infrared Thermal Imager reached approximately 224,000 units, with an average global market price of around US\$7,000 per unit per unit. In the same year, the global total production capacity of Military Infrared Thermal Imager reached 280,000 units. The industry average gross profit margin of this product reached 26%. Military Infrared Thermal Imager refers to a high-end optoelectronic imaging device used in the military and defense fields. Based on the principle of infrared radiation detection, it detects the temperature difference between a target and its background and converts it into a visual thermal image. It typically operates in the long-wave infrared (8~12 μm) or mid-wave infrared (3~5 μm) bands, enabling target detection, identification, and tracking in completely dark, smoke-filled, rain-snow-covered, and complex battlefield environments. Its system usually consists of an infrared detector (cooled/uncooled focal plane array), an optical lens, a signal processing unit, and a display/transmission module. It is widely used in military missions such as night vision reconnaissance, target locking, missile guidance, armored vehicle fire control, UAV reconnaissance, and border surveillance, and is one of the core sensing equipment in modern information warfare systems.

The upstream of the military infrared thermal imager industry chain mainly includes the supply of infrared materials and core components, such as germanium/silicon optical materials, mercury cadmium telluride (HgCdTe), vanadium oxide (VOx), and silicon-based microbolometers, as well as wafer manufacturing. The midstream focuses on core manufacturing and system integration, including infrared detector chip design and

packaging, optical lens processing, cooling component manufacturing, and overall system integration. The downstream primarily serves military equipment systems, defense industry groups, unmanned system manufacturers, and border/counter-terrorism security system integrators. Ultimately, these systems are applied to individual soldier night vision equipment, missile guidance systems, fighter jet and ship optoelectronic systems, armored vehicle fire control systems, and unmanned aerial vehicle reconnaissance platforms. The overall industry chain exhibits a typical military technology system structure: 'high-barrier chip-driven + military system integration-dominated + national-level procurement-driven demand.'

The military infrared thermal imager industry will continue to benefit from multiple factors, including increased global defense budgets, the informatization of warfare, and the accelerated development of unmanned combat systems. In particular, against the backdrop of rapidly growing demands for night combat capabilities, precision strikes, and all-weather battlefield awareness, infrared thermal imaging technology is evolving from traditional single observation equipment to 'AI fusion perception systems,' deeply integrating with drones, missile guidance, intelligent fire control, and multispectral fusion systems. At the same time, as the cost of uncooled infrared detectors decreases and their resolution increases, their penetration rate in individual soldier equipment and low-cost weapon systems will continue to rise. Future industry growth will focus more on miniaturization, intelligence, multi-sensor fusion, and networked collaborative operations, showing an overall development trend of rapid technological upgrades, enhanced military-civilian integration, and continuously expanding application scenarios.

This report studies the global Military Infrared Thermal Imager production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Military Infrared Thermal Imager 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 Military Infrared Thermal Imager that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Military Infrared Thermal Imager total production and demand, 2021-2032, (Units)

Global Military Infrared Thermal Imager total production value, 2021-2032, (USD Million)

Global Military Infrared Thermal Imager production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Military Infrared Thermal Imager consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Military Infrared Thermal Imager domestic production, consumption, key domestic manufacturers and share

Global Military Infrared Thermal Imager production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Military Infrared Thermal Imager production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Military Infrared Thermal Imager production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Military Infrared Thermal Imager 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 Lockheed Martin, Raytheon, L3Harris, Thales, FLIR Systems, Nippon Avionics, Hanwha Systems, Sagem, Northrop Grumman, UTC Aerospace, 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 Military Infrared Thermal Imager market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Military Infrared Thermal Imager Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Military Infrared Thermal Imager Market, Segmentation by Type:

Uncooled Infrared Thermal Imager

Refrigeration Infrared Thermal Imager

Global Military Infrared Thermal Imager Market, Segmentation by Detection Bands:

Shortwave Infrared (SWIR)

Midwave Infrared (MWIR: 3-5 μ m)

Longwave Infrared (LWIR: 8-12 μ m)

Global Military Infrared Thermal Imager Market, Segmentation by Application:

Military Reconnaissance, Surveillance and Guidance

Weaponry

Others

Companies Profiled:

Lockheed Martin

Raytheon

L3Harris

Thales

FLIR Systems

Nippon Avionics

Hanwha Systems

Sagem

Northrop Grumman

UTC Aerospace

Wuhan Guide Infrared

BAE Systems

Elbit

Aselsan

Raytron Technology

Hubei Jiuzhiyang Infrared

Dali Technology

Key Questions Answered:

1. How big is the global Military Infrared Thermal Imager market?
2. What is the demand of the global Military Infrared Thermal Imager market?
3. What is the year over year growth of the global Military Infrared Thermal Imager

market?

4. What is the production and production value of the global Military Infrared Thermal Imager market?
5. Who are the key producers in the global Military Infrared Thermal Imager market?
6. What are the growth factors driving the market demand?

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