

Global Handheld Thermal Monocular Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Handheld Thermal Monocular market size is expected to reach \$ 279 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

A handheld thermal monocular is a portable optoelectronic device that detects Long-Wave Infrared (LWIR) radiation (typically 8-14 micrometers) emitted by objects, translating heat signatures into visible light images. Unlike standard night vision devices that amplify ambient light, thermal monoculars require absolutely zero light to operate, cutting seamlessly through total darkness, smoke, dust, and dense foliage.

The technology has reached a major inflection point driven by the deployment of uncooled Microbolometer sensors with sub-20 mK NETD (Noise Equivalent Temperature Difference) and ultra-fine pixel pitches (down to 12 micrometers or less). This allows handheld units to deliver extreme thermal sensitivity, mapping minute temperature differentials to render crisp, high-definition anatomical details of targets thousands of meters away. Modern units feature onboard algorithmic image enhancement, laser rangefinding (LRF), and integrated wireless streaming, making them indispensable for tactical operations, border security, wildlife conservation, and commercial search and rescue (SAR).

In 2025, global handheld thermal monocular production reached approximately 111.95 k units, with an average global market price of around US\$ 1675 per unit. And global handheld thermal monocular production capacity reached approximately 150 k units. The average gross margin in this industry reached 36.13%.

The upstream supply chain is a highly consolidated sector relying heavily on advanced

semiconductor fabrication and precision optics. The core value lies in the Focal Plane Array (FPA) microbolometer and the Germanium optics. Germanium is the primary material used for lenses because optical glass blocks LWIR wavelengths.

The downstream segment comprises high-end defense contractors, consumer outdoor hunting brands, and specialized distributors. Value is generated here through proprietary software integration?specifically AI-assisted target recognition and advanced sensor fusion (blending thermal and visible channels). Significant downstream channels include Commercial Law Enforcement Equipment Networks and Specialized Outdoor Retailers. Major institutional end-users encompass Border Patrol Agencies, Maritime Security Units, and Wildfire Suppression Teams (using thermal imaging to locate underground hot spots). The downstream commercial market is seeing strong expansion in the hunting and wildlife tourism sectors, where consumers demand robust, ruggedized devices with long battery lives and intuitive ergonomics.

This report studies the global Handheld Thermal Monocular production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Handheld Thermal Monocular total production and demand, 2021-2032, (K Units)

Global Handheld Thermal Monocular total production value, 2021-2032, (USD Million)

Global Handheld Thermal Monocular production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Handheld Thermal Monocular consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Handheld Thermal Monocular domestic production, consumption, key domestic manufacturers and share

Global Handheld Thermal Monocular production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Handheld Thermal Monocular production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Handheld Thermal Monocular production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Handheld Thermal Monocular 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 AGM Global Vision (US), Pulsar (LT), Leica (DE), Teledyne FLIR (US), Teslong (CN), Burris Optics (US), ATN (US), N-Vision Optics (US), Leupold (US), Sector Optics (US), 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 Handheld Thermal Monocular 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 Handheld Thermal Monocular Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Handheld Thermal Monocular Market, Segmentation by Type:

HD

SD

Other

Global Handheld Thermal Monocular Market, Segmentation by Thermal Sensor Resolution:

256?192

384?288

640?512

Others

Global Handheld Thermal Monocular Market, Segmentation by Objective Lens Focal Length:

15mm

25mm

35mm

Others

Global Handheld Thermal Monocular Market, Segmentation by Objective Lens Aperture:

f/1.2

f/1.1

Others

Global Handheld Thermal Monocular Market, Segmentation by Application:

Military

Hunting

Rescue

Other

Companies Profiled:

AGM Global Vision (US)

Pulsar (LT)

Leica (DE)

Teledyne FLIR (US)

Teslong (CN)

Burris Optics (US)

ATN (US)

N-Vision Optics (US)

Leupold (US)

Sector Optics (US)

Zeiss (DE)

Trijicon (US)

GSCI (CA)

Hikmicro (CN)

Key Questions Answered:

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

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