+357 96 030922
info@marketpublishers.com

Global Cooling Infrared Chip Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GF61220B01D8EN.html
Date: September 2026
Pages: 194
Price: US$ 4,480.00 (Single User License)
ID: GF61220B01D8EN

Abstracts

The global Cooling Infrared Chip market size is expected to reach $ 1745 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

Cooling Infrared Chip refers to an infrared photon-detection semiconductor device engineered to operate under controlled low-temperature conditions to suppress dark current and thermal noise and improve detectivity, response speed, image quality, and long-range identification performance. The research scope focuses on single-element detector chips, multi-element chips, linear arrays, area focal plane array chips, and hybridized focal plane arrays integrating a photosensitive array with a readout integrated circuit. Principal material platforms include mercury cadmium telluride, indium antimonide, InAsSb and XBn structures, type-II superlattices, and quantum-well infrared photodetectors. Products are differentiated by spectral band, array format, pixel pitch, operating temperature, quantum efficiency, dark-current density, detectivity, frame rate, operability, and spectral-channel configuration. Cooling is commonly provided through mechanical cryocoolers, Joule–Thomson systems, liquid-nitrogen equipment, multi-stage thermoelectric cooling, or dedicated space cryogenic systems. Cooling Infrared Chip products support guidance and target tracking, long-range infrared imaging, space observation, optical gas imaging, spectroscopy, laser detection, and high-sensitivity scientific measurement.

Key Findings

Defense and space applications contribute roughly two-thirds of market value

MWIR remains the largest spectral segment for cooled imaging chips

+357 96 030922
info@marketpublishers.com

MCT remains the dominant material platform across high-performance applications

North America and Europe lead high-value military and space programs

China records the fastest expansion in localized production capacity

Market Trends

The Cooling Infrared Chip industry is progressing toward higher operating temperatures, smaller pixel pitches, larger array formats, digital readout architectures, and lower system-level size, weight, and power consumption. HOT MCT, XBn, and T2SL technologies are receiving greater development attention because reduced cooling requirements can shorten cool-down time, extend cryocooler life, and facilitate integration into compact airborne, unmanned, handheld, and space platforms. Product development is also shifting from conventional single-band VGA arrays toward high-definition area arrays, dual-band detection, multispectral sensing, and application-specific focal plane architectures. Recent product roadmaps indicate movement toward 10 ?m and sub-10 ?m pixels, megapixel-class formats, higher operating temperatures, and detector packages optimized for compact cryocoolers. MCT is expected to retain a central position because of its broad spectral tunability and established production base, while T2SL and XBn are expanding where low dark current, high-temperature operation, supply-chain diversification, or low-SWaP performance is prioritized.

Market Dynamics

Drivers

Demand is primarily supported by sustained investment in missile warning, precision guidance, infrared search and track, long-range surveillance, space-based observation, and distributed-aperture sensing. These applications require sensitivity, frame rate, target discrimination, and detection range that remain difficult for uncooled detectors to achieve under demanding operating conditions. Expansion of unmanned platforms and compact electro-optical payloads is creating additional demand for cooled detectors with lower power consumption and longer operating life. Industrial requirements for methane and volatile-organic-compound imaging, high-speed laser detection, and precision spectroscopy provide a secondary source of growth. Policy emphasis on defense supply security and domestic semiconductor capability is also encouraging regional

+357 96 030922
info@marketpublishers.com

investment in detector materials, focal plane fabrication, hybridization, and cryogenic packaging.

Restraints

Cooling Infrared Chip manufacturing remains capital-intensive and technically demanding. Material growth defects, pixel non-uniformity, dark-current control, low-yield hybridization, vacuum-package reliability, and cryogenic qualification can materially increase production cost. Development and customer-certification cycles are substantially longer than those for mainstream imaging semiconductors, while annual volumes are relatively limited and product specifications are frequently project-specific. Mechanical coolers add cost, power consumption, acoustic output, weight, maintenance considerations, and system integration complexity. Uncooled infrared chips continue to capture applications in which cost, rapid start-up, portability, and adequate rather than maximum sensitivity are the primary purchasing criteria, limiting the addressable scope of cooled products in commercial mass markets.

Opportunities

The strongest opportunities are emerging in high-operating-temperature detectors, compact integrated detector cooler assemblies, large-format arrays, dual-band focal planes, and application-specific digital readout architectures. T2SL, XBn, and advanced HOT MCT can support reduced cooler load and longer system life, opening opportunities in drones, compact gimbals, counter-drone sensors, persistent surveillance, and mobile gas-imaging systems. Space programs create additional demand for radiation-tolerant, low-noise, large-format arrays and mission-specific spectral response. Industrial optical gas imaging offers an attractive development path because regulatory monitoring requirements and the economic cost of undetected leakage can support premium detector performance. Regional supply-chain localization also creates opportunities for emerging manufacturers able to establish stable material growth, reproducible wafer processing, reliable hybridization, and qualified local delivery.

Challenges

The principal challenge is converting laboratory-level detector performance into repeatable commercial or strategic production. A supplier must simultaneously control material uniformity, fabrication yield, ROIC compatibility, pixel operability, packaging reliability, cryocooler matching, and environmental qualification. Rapid specification changes can create expensive production transitions before earlier product generations

+357 96 030922
info@marketpublishers.com

reach economic scale. Export controls, classified procurement processes, and country-specific qualification requirements restrict cross-border customer access and reduce the effective size of the open market. Emerging suppliers may demonstrate competitive samples but still require several qualification cycles to build customer confidence and installed-base evidence. The industry must also manage a structural tension between highly customized products, which support premium pricing, and manufacturing standardization, which is necessary to improve yield and reduce cost.

Industry Chain Analysis

The upstream Cooling Infrared Chip industry chain consists of compound-semiconductor source materials, specialized substrates, epitaxial growth equipment, high-purity process chemicals, lithography and etching materials, ROIC wafers, indium-bump materials, ceramic or metal packaging, optical windows, getters, and cryogenic components. Detector performance is particularly sensitive to epitaxial-material quality and defect control. MCT production may rely on molecular-beam epitaxy or other specialized growth processes, while T2SL and XBn platforms require precise control of III-V layer composition and interfaces. ROIC design is another critical upstream capability because well capacity, noise, frame rate, windowing, digital conversion, and pixel architecture must be matched to the photosensitive array.

The midstream value-creation process covers detector design, epitaxial growth, wafer processing, passivation, pixel definition, wafer testing, ROIC fabrication, flip-chip hybridization, substrate thinning, packaging, vacuum sealing, cryogenic integration, calibration, and reliability qualification. Yield improvement across material growth, focal plane fabrication, and hybridization is the principal source of manufacturing leverage. High-end suppliers generally retain several of these stages internally because process interaction strongly affects final performance. Downstream value is realized through detector packages, dewar assemblies, integrated detector cooler assemblies, camera cores, and complete electro-optical systems. Chip and hybridized-FPA suppliers capture value through proprietary materials, process know-how, qualification records, custom design capability, and long product life cycles rather than through commodity-scale unit production.

Segment Insights

By spectral band, MWIR represents the largest value segment because it combines strong atmospheric transmission with high utility in target tracking, missile warning, airborne imaging, gas detection, and high-temperature industrial observation. LWIR products serve long-range surveillance, low-temperature target detection, and

+357 96 030922
info@marketpublishers.com

specialized defense or scientific applications but generally require more demanding dark-current control and lower operating temperatures. SWIR and custom-band cooled chips represent a smaller share and are concentrated in scientific imaging, spectroscopy, and specialized space applications. Dual-band and multispectral configurations account for a limited share of unit shipments but command higher value because they improve target discrimination and reduce false alarms.

By detector material, MCT remains the leading platform due to its adjustable spectral cutoff, established manufacturing base, and coverage from shorter infrared wavelengths through LWIR and VLWIR. InSb retains a meaningful position in established MWIR systems and scientific instruments. T2SL and InAsSb/XBn are among the most active development directions, particularly for HOT operation, lower dark current, reduced cooling requirements, and alternative supply chains. By product form, area focal plane array chips generate the largest share of market value, while single-element, multi-element, and linear-array chips maintain important specialist positions in spectroscopy, laser measurement, and scanning instruments. Hybridized FPAs represent the central commercial form for high-performance imaging, while packaged detectors and integrated cooler assemblies capture additional downstream system value.

Downstream Market Opportunities

Defense and space will remain the principal value pools for Cooling Infrared Chip products because procurement decisions emphasize detection range, sensitivity, reliability, and mission performance more than initial component cost. Growth opportunities are expanding from traditional missile seekers and long-range surveillance into counter-drone systems, distributed-aperture sensing, compact airborne payloads, persistent monitoring, and proliferated satellite architectures. Industrial opportunities are narrower but increasingly attractive in optical gas imaging, where improved resolution, portability, battery life, and gas-specific spectral response can broaden field deployment. Spectroscopy, laser measurement, semiconductor-process monitoring, astronomy, and scientific instrumentation provide stable specialist demand with relatively high customization requirements and lower unit volumes.

Regional Insights

North America represents the largest high-value market and production center, supported by major defense, missile-warning, airborne-sensing, and space-imaging programs. The region combines vertically integrated detector manufacturers, specialized focal-plane facilities, government-funded technology development, and established cryogenic system suppliers. Europe forms the second major technology

+357 96 030922
info@marketpublishers.com

cluster, with complementary capabilities in MCT, HOT detectors, T2SL, QWIP, scientific arrays, and industrial photodetectors. Recent European capacity investment reflects a strategic focus on sovereign infrared-sensor production and reduced dependence on external defense supply chains.

China is the fastest-expanding production region, driven by localization of detector materials, ROIC design, focal plane processing, hybridization, packaging, and system integration. The market includes established dual-technology producers, specialized T2SL suppliers, strategic research institutes, and emerging material-platform companies. Israel maintains a strong position in compact, high-performance defense detectors, while Japan remains important in scientific, spectroscopy, and single-element or multi-element detector products. South Korea is developing domestic defense supply capabilities, whereas India and several other regions remain more concentrated in research, prototype development, and system integration than in commercially scaled focal-plane production.

Competitive Landscape Analysis

The Cooling Infrared Chip market has a concentrated upper tier and a broader but fragmented specialist tier. Leading manufacturers compete through vertically integrated material growth, focal plane processing, proprietary ROICs, hybridization yield, space or defense qualification, and the ability to deliver customized arrays over long program cycles. Competitive advantage is therefore based less on corporate scale alone than on the depth of detector-process ownership and accumulated application qualification. Established North American and European suppliers retain strong positions in high-value defense and space programs, while Israeli manufacturers compete effectively in low-SWaP and high-operating-temperature defense detectors. Chinese manufacturers are broadening their position through MCT and T2SL production, domestic-system integration, and localized supply, although performance consistency, production yield, and long-duration qualification remain important differentiators across the supplier base. Specialized companies compete in T2SL, QWIP, high-speed MCT, cooled lead-salt detectors, spectroscopy, and custom scientific arrays. Future market structure is likely to remain regionally segmented because export controls and sovereign-procurement policies limit direct competition, while investment in new capacity, digital focal planes, HOT technology, and smaller pixels will raise both technical performance and capital requirements.

Report Scope

+357 96 030922
info@marketpublishers.com

This report studies the global Cooling Infrared Chip production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Cooling Infrared Chip total production and demand, 2021-2032, (Units)

Global Cooling Infrared Chip total production value, 2021-2032, (USD Million)

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

Global Cooling Infrared Chip consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Cooling Infrared Chip domestic production, consumption, key domestic manufacturers and share

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

Global Cooling Infrared Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Cooling Infrared Chip production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Cooling Infrared Chip 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 RTX Corporation, Lockheed Martin Corporation, BAE Systems plc, Teledyne Technologies Incorporated, L3Harris Technologies, Inc.,

+357 96 030922
info@marketpublishers.com

Leonardo S.p.A., China Electronics Technology Group Corporation, Hamamatsu Photonics K.K., Raytron Technology Co., Ltd., Wuhan Guide Infrared Co., Ltd., 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 Cooling Infrared Chip 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 Cooling Infrared Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cooling Infrared Chip Market, Segmentation by Type:

Single-Element Detector Chip

+357 96 030922
info@marketpublishers.com

Multi-Element Detector Chip

Other Specialized Array Chip

Global Cooling Infrared Chip Market, Segmentation by Spectral Band:

Short-Wave Infrared / SWIR

Mid-Wave Infrared / MWIR

Long-Wave Infrared / LWIR

Very-Long-Wave Infrared / VLWIR

Other

Global Cooling Infrared Chip Market, Segmentation by Detector Material:

Mercury Cadmium Telluride / MCT

Indium Antimonide / InSb

InAsSb and XBn

Other Detector Materials

Global Cooling Infrared Chip Market, Segmentation by Cooling Method:

Mechanical Cryocooling

Joule–Thomson Cooling

+357 96 030922
info@marketpublishers.com

Liquid-Nitrogen Cooling

Other Cooling Methods

Global Cooling Infrared Chip Market, Segmentation by Application:

Public Safety

Electricity

Medical

Aerospace

Other

Companies Profiled:

RTX Corporation

Lockheed Martin Corporation

BAE Systems plc

Teledyne Technologies Incorporated

L3Harris Technologies, Inc.

Leonardo S.p.A.

China Electronics Technology Group Corporation

Hamamatsu Photonics K.K.

Raytron Technology Co., Ltd.

+357 96 030922
info@marketpublishers.com

Wuhan Guide Infrared Co., Ltd.

Guangzhi Technology Co., Ltd.

LYNRED

Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd.

SemiConductor Devices

AIM Infrarot-Module GmbH

i3system, Inc.

VIGO Photonics S.A.

IRnova AB

Zhejiang Qinfrared Technology Co., Ltd.

AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD.

Zhejiang Juexin Microelectronics Co., Ltd.

ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD.

Zhongxin Recheng Technology (Beijing) Co., Ltd.

QmagiQ LLC

Kolmar Technologies, Inc.

LASER COMPONENTS GmbH

Key Questions Answered:

1. How big is the global Cooling Infrared Chip market?
2. What is the demand of the global Cooling Infrared Chip market?

+357 96 030922
info@marketpublishers.com

3. What is the year over year growth of the global Cooling Infrared Chip market?
4. What is the production and production value of the global Cooling Infrared Chip market?
5. Who are the key producers in the global Cooling Infrared Chip market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

1 SUPPLY SUMMARY

1.1 Cooling Infrared Chip Introduction
1.2 World Cooling Infrared Chip Supply & Forecast
  1.2.1 World Cooling Infrared Chip Production Value (2021 & 2025 & 2032)
  1.2.2 World Cooling Infrared Chip Production (2021-2032)
  1.2.3 World Cooling Infrared Chip Pricing Trends (2021-2032)
1.3 World Cooling Infrared Chip Production by Region (Based on Production Site)
  1.3.1 World Cooling Infrared Chip Production Value by Region (2021-2032)
  1.3.2 World Cooling Infrared Chip Production by Region (2021-2032)
  1.3.3 World Cooling Infrared Chip Average Price by Region (2021-2032)
  1.3.4 North America Cooling Infrared Chip Production (2021-2032)
  1.3.5 Europe Cooling Infrared Chip Production (2021-2032)
  1.3.6 China Cooling Infrared Chip Production (2021-2032)
  1.3.7 Japan Cooling Infrared Chip Production (2021-2032)
  1.3.8 South Korea Cooling Infrared Chip Production (2021-2032)
  1.3.9 Israel Cooling Infrared Chip Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Cooling Infrared Chip Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Cooling Infrared Chip Major Market Trends

2 DEMAND SUMMARY

2.1 World Cooling Infrared Chip Demand (2021-2032)
2.2 World Cooling Infrared Chip Consumption by Region
  2.2.1 World Cooling Infrared Chip Consumption by Region (2021-2026)
  2.2.2 World Cooling Infrared Chip Consumption Forecast by Region (2027-2032)
2.3 United States Cooling Infrared Chip Consumption (2021-2032)
2.4 China Cooling Infrared Chip Consumption (2021-2032)
2.5 Europe Cooling Infrared Chip Consumption (2021-2032)
2.6 Japan Cooling Infrared Chip Consumption (2021-2032)
2.7 South Korea Cooling Infrared Chip Consumption (2021-2032)
2.8 ASEAN Cooling Infrared Chip Consumption (2021-2032)
2.9 India Cooling Infrared Chip Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

+357 96 030922
info@marketpublishers.com

3.1 World Cooling Infrared Chip Production Value by Manufacturer (2021-2026)
3.2 World Cooling Infrared Chip Production by Manufacturer (2021-2026)
3.3 World Cooling Infrared Chip Average Price by Manufacturer (2021-2026)
3.4 Cooling Infrared Chip Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Cooling Infrared Chip Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Cooling Infrared Chip in 2025
  3.5.3 Global Concentration Ratios (CR8) for Cooling Infrared Chip in 2025
3.6 Cooling Infrared Chip Market: Overall Company Footprint Analysis
  3.6.1 Cooling Infrared Chip Market: Region Footprint
  3.6.2 Cooling Infrared Chip Market: Company Product Type Footprint
  3.6.3 Cooling Infrared Chip Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Cooling Infrared Chip Production Value Comparison
  4.1.1 United States VS China: Cooling Infrared Chip Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Cooling Infrared Chip Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Cooling Infrared Chip Production Comparison
  4.2.1 United States VS China: Cooling Infrared Chip Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Cooling Infrared Chip Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Cooling Infrared Chip Consumption Comparison
  4.3.1 United States VS China: Cooling Infrared Chip Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Cooling Infrared Chip Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Cooling Infrared Chip Manufacturers and Market Share, 2021-2026

+357 96 030922
info@marketpublishers.com

4.4.1 United States Based Cooling Infrared Chip Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Cooling Infrared Chip Production Value (2021-2026)
4.4.3 United States Based Manufacturers Cooling Infrared Chip Production (2021-2026)
4.5 China Based Cooling Infrared Chip Manufacturers and Market Share
4.5.1 China Based Cooling Infrared Chip Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Cooling Infrared Chip Production Value (2021-2026)
4.5.3 China Based Manufacturers Cooling Infrared Chip Production (2021-2026)
4.6 Rest of World Based Cooling Infrared Chip Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Cooling Infrared Chip Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Cooling Infrared Chip Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Cooling Infrared Chip Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Cooling Infrared Chip Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Single-Element Detector Chip
5.2.2 Multi-Element Detector Chip
5.2.3 Other Specialized Array Chip
5.3 Market Segment by Type
5.3.1 World Cooling Infrared Chip Production by Type (2021-2032)
5.3.2 World Cooling Infrared Chip Production Value by Type (2021-2032)
5.3.3 World Cooling Infrared Chip Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SPECTRAL BAND

6.1 World Cooling Infrared Chip Market Size Overview by Spectral Band: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Spectral Band
6.2.1 Short-Wave Infrared / SWIR
6.2.2 Mid-Wave Infrared / MWIR

+357 96 030922
info@marketpublishers.com

6.2.3 Long-Wave Infrared / LWIR
6.2.4 Very-Long-Wave Infrared / VLWIR
6.2.5 Other
6.3 Market Segment by Spectral Band
6.3.1 World Cooling Infrared Chip Production by Spectral Band (2021-2032)
6.3.2 World Cooling Infrared Chip Production Value by Spectral Band (2021-2032)
6.3.3 World Cooling Infrared Chip Average Price by Spectral Band (2021-2032)

7 MARKET ANALYSIS BY DETECTOR MATERIAL

7.1 World Cooling Infrared Chip Market Size Overview by Detector Material: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Detector Material
7.2.1 Mercury Cadmium Telluride / MCT
7.2.2 Indium Antimonide / InSb
7.2.3 InAsSb and XBn
7.2.4 Other Detector Materials
7.3 Market Segment by Detector Material
7.3.1 World Cooling Infrared Chip Production by Detector Material (2021-2032)
7.3.2 World Cooling Infrared Chip Production Value by Detector Material (2021-2032)
7.3.3 World Cooling Infrared Chip Average Price by Detector Material (2021-2032)

8 MARKET ANALYSIS BY COOLING METHOD

8.1 World Cooling Infrared Chip Market Size Overview by Cooling Method: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Cooling Method
8.2.1 Mechanical Cryocooling
8.2.2 Joule–Thomson Cooling
8.2.3 Liquid-Nitrogen Cooling
8.2.4 Other Cooling Methods
8.3 Market Segment by Cooling Method
8.3.1 World Cooling Infrared Chip Production by Cooling Method (2021-2032)
8.3.2 World Cooling Infrared Chip Production Value by Cooling Method (2021-2032)
8.3.3 World Cooling Infrared Chip Average Price by Cooling Method (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Cooling Infrared Chip Market Size Overview by Application: 2021 VS 2025

+357 96 030922
info@marketpublishers.com

VS 2032
9.2 Segment Introduction by Application
9.2.1 Public Safety
9.2.2 Electricity
9.2.3 Medical
9.2.4 Aerospace
9.2.5 Other
9.3 Market Segment by Application
9.3.1 World Cooling Infrared Chip Production by Application (2021-2032)
9.3.2 World Cooling Infrared Chip Production Value by Application (2021-2032)
9.3.3 World Cooling Infrared Chip Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 RTX Corporation
10.1.1 RTX Corporation Details
10.1.2 RTX Corporation Major Business
10.1.3 RTX Corporation Cooling Infrared Chip Product and Services
10.1.4 RTX Corporation Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.1.5 RTX Corporation Recent Developments/Updates
10.1.6 RTX Corporation Competitive Strengths & Weaknesses
10.2 Lockheed Martin Corporation
10.2.1 Lockheed Martin Corporation Details
10.2.2 Lockheed Martin Corporation Major Business
10.2.3 Lockheed Martin Corporation Cooling Infrared Chip Product and Services
10.2.4 Lockheed Martin Corporation Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.2.5 Lockheed Martin Corporation Recent Developments/Updates
10.2.6 Lockheed Martin Corporation Competitive Strengths & Weaknesses
10.3 BAE Systems plc
10.3.1 BAE Systems plc Details
10.3.2 BAE Systems plc Major Business
10.3.3 BAE Systems plc Cooling Infrared Chip Product and Services
10.3.4 BAE Systems plc Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.3.5 BAE Systems plc Recent Developments/Updates
10.3.6 BAE Systems plc Competitive Strengths & Weaknesses
10.4 Teledyne Technologies Incorporated

+357 96 030922
info@marketpublishers.com

10.4.1 Teledyne Technologies Incorporated Details
10.4.2 Teledyne Technologies Incorporated Major Business
10.4.3 Teledyne Technologies Incorporated Cooling Infrared Chip Product and Services
10.4.4 Teledyne Technologies Incorporated Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.4.5 Teledyne Technologies Incorporated Recent Developments/Updates
10.4.6 Teledyne Technologies Incorporated Competitive Strengths & Weaknesses
10.5 L3Harris Technologies, Inc.
10.5.1 L3Harris Technologies, Inc. Details
10.5.2 L3Harris Technologies, Inc. Major Business
10.5.3 L3Harris Technologies, Inc. Cooling Infrared Chip Product and Services
10.5.4 L3Harris Technologies, Inc. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.5.5 L3Harris Technologies, Inc. Recent Developments/Updates
10.5.6 L3Harris Technologies, Inc. Competitive Strengths & Weaknesses
10.6 Leonardo S.p.A.
10.6.1 Leonardo S.p.A. Details
10.6.2 Leonardo S.p.A. Major Business
10.6.3 Leonardo S.p.A. Cooling Infrared Chip Product and Services
10.6.4 Leonardo S.p.A. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.6.5 Leonardo S.p.A. Recent Developments/Updates
10.6.6 Leonardo S.p.A. Competitive Strengths & Weaknesses
10.7 China Electronics Technology Group Corporation
10.7.1 China Electronics Technology Group Corporation Details
10.7.2 China Electronics Technology Group Corporation Major Business
10.7.3 China Electronics Technology Group Corporation Cooling Infrared Chip Product and Services
10.7.4 China Electronics Technology Group Corporation Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.7.5 China Electronics Technology Group Corporation Recent Developments/Updates
10.7.6 China Electronics Technology Group Corporation Competitive Strengths & Weaknesses
10.8 Hamamatsu Photonics K.K.
10.8.1 Hamamatsu Photonics K.K. Details
10.8.2 Hamamatsu Photonics K.K. Major Business
10.8.3 Hamamatsu Photonics K.K. Cooling Infrared Chip Product and Services

+357 96 030922
info@marketpublishers.com

10.8.4 Hamamatsu Photonics K.K. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.8.5 Hamamatsu Photonics K.K. Recent Developments/Updates
10.8.6 Hamamatsu Photonics K.K. Competitive Strengths & Weaknesses
10.9 Raytron Technology Co., Ltd.
10.9.1 Raytron Technology Co., Ltd. Details
10.9.2 Raytron Technology Co., Ltd. Major Business
10.9.3 Raytron Technology Co., Ltd. Cooling Infrared Chip Product and Services
10.9.4 Raytron Technology Co., Ltd. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.9.5 Raytron Technology Co., Ltd. Recent Developments/Updates
10.9.6 Raytron Technology Co., Ltd. Competitive Strengths & Weaknesses
10.10 Wuhan Guide Infrared Co., Ltd.
10.10.1 Wuhan Guide Infrared Co., Ltd. Details
10.10.2 Wuhan Guide Infrared Co., Ltd. Major Business
10.10.3 Wuhan Guide Infrared Co., Ltd. Cooling Infrared Chip Product and Services
10.10.4 Wuhan Guide Infrared Co., Ltd. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.10.5 Wuhan Guide Infrared Co., Ltd. Recent Developments/Updates
10.10.6 Wuhan Guide Infrared Co., Ltd. Competitive Strengths & Weaknesses
10.11 Guangzhi Technology Co., Ltd.
10.11.1 Guangzhi Technology Co., Ltd. Details
10.11.2 Guangzhi Technology Co., Ltd. Major Business
10.11.3 Guangzhi Technology Co., Ltd. Cooling Infrared Chip Product and Services
10.11.4 Guangzhi Technology Co., Ltd. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.11.5 Guangzhi Technology Co., Ltd. Recent Developments/Updates
10.11.6 Guangzhi Technology Co., Ltd. Competitive Strengths & Weaknesses
10.12 LYNRED
10.12.1 LYNRED Details
10.12.2 LYNRED Major Business
10.12.3 LYNRED Cooling Infrared Chip Product and Services
10.12.4 LYNRED Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.12.5 LYNRED Recent Developments/Updates
10.12.6 LYNRED Competitive Strengths & Weaknesses
10.13 Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd.
10.13.1 Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Details
10.13.2 Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Major Business

+357 96 030922
info@marketpublishers.com

10.13.3 Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Cooling Infrared Chip Product and Services
10.13.4 Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.13.5 Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Recent Developments/Updates
10.13.6 Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Competitive Strengths & Weaknesses
10.14 SemiConductor Devices
10.14.1 SemiConductor Devices Details
10.14.2 SemiConductor Devices Major Business
10.14.3 SemiConductor Devices Cooling Infrared Chip Product and Services
10.14.4 SemiConductor Devices Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.14.5 SemiConductor Devices Recent Developments/Updates
10.14.6 SemiConductor Devices Competitive Strengths & Weaknesses
10.15 AIM Infrarot-Module GmbH
10.15.1 AIM Infrarot-Module GmbH Details
10.15.2 AIM Infrarot-Module GmbH Major Business
10.15.3 AIM Infrarot-Module GmbH Cooling Infrared Chip Product and Services
10.15.4 AIM Infrarot-Module GmbH Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.15.5 AIM Infrarot-Module GmbH Recent Developments/Updates
10.15.6 AIM Infrarot-Module GmbH Competitive Strengths & Weaknesses
10.16 i3system, Inc.
10.16.1 i3system, Inc. Details
10.16.2 i3system, Inc. Major Business
10.16.3 i3system, Inc. Cooling Infrared Chip Product and Services
10.16.4 i3system, Inc. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.16.5 i3system, Inc. Recent Developments/Updates
10.16.6 i3system, Inc. Competitive Strengths & Weaknesses
10.17 VIGO Photonics S.A.
10.17.1 VIGO Photonics S.A. Details
10.17.2 VIGO Photonics S.A. Major Business
10.17.3 VIGO Photonics S.A. Cooling Infrared Chip Product and Services
10.17.4 VIGO Photonics S.A. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.17.5 VIGO Photonics S.A. Recent Developments/Updates
10.17.6 VIGO Photonics S.A. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

10.18 IRnova AB
10.18.1 IRnova AB Details
10.18.2 IRnova AB Major Business
10.18.3 IRnova AB Cooling Infrared Chip Product and Services
10.18.4 IRnova AB Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.18.5 IRnova AB Recent Developments/Updates
10.18.6 IRnova AB Competitive Strengths & Weaknesses
10.19 Zhejiang Qinfrared Technology Co., Ltd.
10.19.1 Zhejiang Qinfrared Technology Co., Ltd. Details
10.19.2 Zhejiang Qinfrared Technology Co., Ltd. Major Business
10.19.3 Zhejiang Qinfrared Technology Co., Ltd. Cooling Infrared Chip Product and Services
10.19.4 Zhejiang Qinfrared Technology Co., Ltd. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.19.5 Zhejiang Qinfrared Technology Co., Ltd. Recent Developments/Updates
10.19.6 Zhejiang Qinfrared Technology Co., Ltd. Competitive Strengths & Weaknesses
10.20 AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD.
10.20.1 AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Details
10.20.2 AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Major Business
10.20.3 AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Cooling Infrared Chip Product and Services
10.20.4 AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.20.5 AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Recent Developments/Updates
10.20.6 AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Competitive Strengths & Weaknesses
10.21 Zhejiang Juexin Microelectronics Co., Ltd.
10.21.1 Zhejiang Juexin Microelectronics Co., Ltd. Details
10.21.2 Zhejiang Juexin Microelectronics Co., Ltd. Major Business
10.21.3 Zhejiang Juexin Microelectronics Co., Ltd. Cooling Infrared Chip Product and Services
10.21.4 Zhejiang Juexin Microelectronics Co., Ltd. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.21.5 Zhejiang Juexin Microelectronics Co., Ltd. Recent Developments/Updates
10.21.6 Zhejiang Juexin Microelectronics Co., Ltd. Competitive Strengths &

+357 96 030922
info@marketpublishers.com

Weaknesses
10.22 ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD.
10.22.1 ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Details
10.22.2 ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Major Business
10.22.3 ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Cooling Infrared Chip Product and Services
10.22.4 ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.22.5 ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Recent Developments/Updates
10.22.6 ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Competitive Strengths & Weaknesses
10.23 Zhongxin Recheng Technology (Beijing) Co., Ltd.
10.23.1 Zhongxin Recheng Technology (Beijing) Co., Ltd. Details
10.23.2 Zhongxin Recheng Technology (Beijing) Co., Ltd. Major Business
10.23.3 Zhongxin Recheng Technology (Beijing) Co., Ltd. Cooling Infrared Chip Product and Services
10.23.4 Zhongxin Recheng Technology (Beijing) Co., Ltd. Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.23.5 Zhongxin Recheng Technology (Beijing) Co., Ltd. Recent Developments/Updates
10.23.6 Zhongxin Recheng Technology (Beijing) Co., Ltd. Competitive Strengths & Weaknesses
10.24 QmagiQ LLC
10.24.1 QmagiQ LLC Details
10.24.2 QmagiQ LLC Major Business
10.24.3 QmagiQ LLC Cooling Infrared Chip Product and Services
10.24.4 QmagiQ LLC Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.24.5 QmagiQ LLC Recent Developments/Updates
10.24.6 QmagiQ LLC Competitive Strengths & Weaknesses
10.25 Kolmar Technologies, Inc.
10.25.1 Kolmar Technologies, Inc. Details
10.25.2 Kolmar Technologies, Inc. Major Business
10.25.3 Kolmar Technologies, Inc. Cooling Infrared Chip Product and Services
10.25.4 Kolmar Technologies, Inc. Cooling Infrared Chip Production, Price, Value,

+357 96 030922
info@marketpublishers.com

Gross Margin and Market Share (2021-2026)
10.25.5 Kolmar Technologies, Inc. Recent Developments/Updates
10.25.6 Kolmar Technologies, Inc. Competitive Strengths & Weaknesses
10.26 LASER COMPONENTS GmbH
10.26.1 LASER COMPONENTS GmbH Details
10.26.2 LASER COMPONENTS GmbH Major Business
10.26.3 LASER COMPONENTS GmbH Cooling Infrared Chip Product and Services
10.26.4 LASER COMPONENTS GmbH Cooling Infrared Chip Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.26.5 LASER COMPONENTS GmbH Recent Developments/Updates
10.26.6 LASER COMPONENTS GmbH Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Cooling Infrared Chip Industry Chain
11.2 Cooling Infrared Chip Upstream Analysis
11.2.1 Cooling Infrared Chip Core Raw Materials
11.2.2 Main Manufacturers of Cooling Infrared Chip Core Raw Materials
11.3 Midstream Analysis
11.4 Downstream Analysis
11.5 Cooling Infrared Chip Production Mode
11.6 Cooling Infrared Chip Procurement Model
11.7 Cooling Infrared Chip Industry Sales Model and Sales Channels
11.7.1 Cooling Infrared Chip Sales Model
11.7.2 Cooling Infrared Chip Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology
13.2 Research Process and Data Source
13.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Cooling Infrared Chip Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Cooling Infrared Chip Production Value by Region (2021-2026) & (USD Million)
Table 3. World Cooling Infrared Chip Production Value by Region (2027-2032) & (USD Million)
Table 4. World Cooling Infrared Chip Production Value Market Share by Region (2021-2026)
Table 5. World Cooling Infrared Chip Production Value Market Share by Region (2027-2032)
Table 6. World Cooling Infrared Chip Production by Region (2021-2026) & (Units)
Table 7. World Cooling Infrared Chip Production by Region (2027-2032) & (Units)
Table 8. World Cooling Infrared Chip Production Market Share by Region (2021-2026)
Table 9. World Cooling Infrared Chip Production Market Share by Region (2027-2032)
Table 10. World Cooling Infrared Chip Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Cooling Infrared Chip Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Cooling Infrared Chip Major Market Trends
Table 13. World Cooling Infrared Chip Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)
Table 14. World Cooling Infrared Chip Consumption by Region (2021-2026) & (Units)
Table 15. World Cooling Infrared Chip Consumption Forecast by Region (2027-2032) & (Units)
Table 16. World Cooling Infrared Chip Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Cooling Infrared Chip Producers in 2025
Table 18. World Cooling Infrared Chip Production by Manufacturer (2021-2026) & (Units)
Table 19. Production Market Share of Key Cooling Infrared Chip Producers in 2025
Table 20. World Cooling Infrared Chip Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Cooling Infrared Chip Company Evaluation Quadrant
Table 22. World Cooling Infrared Chip Industry Rank of Major Manufacturers, Based on

+357 96 030922
info@marketpublishers.com

Production Value in 2025
Table 23. Head Office and Cooling Infrared Chip Production Site of Key Manufacturer
Table 24. Cooling Infrared Chip Market: Company Product Type Footprint
Table 25. Cooling Infrared Chip Market: Company Product Application Footprint
Table 26. Cooling Infrared Chip Competitive Factors
Table 27. Cooling Infrared Chip New Entrant and Capacity Expansion Plans
Table 28. Cooling Infrared Chip Mergers & Acquisitions Activity
Table 29. United States VS China Cooling Infrared Chip Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Cooling Infrared Chip Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China Cooling Infrared Chip Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based Cooling Infrared Chip Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Cooling Infrared Chip Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Cooling Infrared Chip Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Cooling Infrared Chip Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers Cooling Infrared Chip Production Market Share (2021-2026)
Table 37. China Based Cooling Infrared Chip Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Cooling Infrared Chip Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Cooling Infrared Chip Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Cooling Infrared Chip Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers Cooling Infrared Chip Production Market Share (2021-2026)
Table 42. Rest of World Based Cooling Infrared Chip Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Cooling Infrared Chip Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Cooling Infrared Chip Production Value Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 45. Rest of World Based Manufacturers Cooling Infrared Chip Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers Cooling Infrared Chip Production Market Share (2021-2026)
Table 47. World Cooling Infrared Chip Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Cooling Infrared Chip Production by Type (2021-2026) & (Units)
Table 49. World Cooling Infrared Chip Production by Type (2027-2032) & (Units)
Table 50. World Cooling Infrared Chip Production Value by Type (2021-2026) & (USD Million)
Table 51. World Cooling Infrared Chip Production Value by Type (2027-2032) & (USD Million)
Table 52. World Cooling Infrared Chip Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Cooling Infrared Chip Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Cooling Infrared Chip Production Value by Spectral Band, (USD Million), 2021 & 2025 & 2032
Table 55. World Cooling Infrared Chip Production by Spectral Band (2021-2026) & (Units)
Table 56. World Cooling Infrared Chip Production by Spectral Band (2027-2032) & (Units)
Table 57. World Cooling Infrared Chip Production Value by Spectral Band (2021-2026) & (USD Million)
Table 58. World Cooling Infrared Chip Production Value by Spectral Band (2027-2032) & (USD Million)
Table 59. World Cooling Infrared Chip Average Price by Spectral Band (2021-2026) & (US$/Unit)
Table 60. World Cooling Infrared Chip Average Price by Spectral Band (2027-2032) & (US$/Unit)
Table 61. World Cooling Infrared Chip Production Value by Detector Material, (USD Million), 2021 & 2025 & 2032
Table 62. World Cooling Infrared Chip Production by Detector Material (2021-2026) & (Units)
Table 63. World Cooling Infrared Chip Production by Detector Material (2027-2032) & (Units)
Table 64. World Cooling Infrared Chip Production Value by Detector Material (2021-2026) & (USD Million)
Table 65. World Cooling Infrared Chip Production Value by Detector Material (2027-2032) & (USD Million)
Table 66. World Cooling Infrared Chip Average Price by Detector Material (2021-2026)

+357 96 030922
info@marketpublishers.com

& (US$/Unit)
Table 67. World Cooling Infrared Chip Average Price by Detector Material (2027-2032) & (US$/Unit)
Table 68. World Cooling Infrared Chip Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032
Table 69. World Cooling Infrared Chip Production by Cooling Method (2021-2026) & (Units)
Table 70. World Cooling Infrared Chip Production by Cooling Method (2027-2032) & (Units)
Table 71. World Cooling Infrared Chip Production Value by Cooling Method (2021-2026) & (USD Million)
Table 72. World Cooling Infrared Chip Production Value by Cooling Method (2027-2032) & (USD Million)
Table 73. World Cooling Infrared Chip Average Price by Cooling Method (2021-2026) & (US$/Unit)
Table 74. World Cooling Infrared Chip Average Price by Cooling Method (2027-2032) & (US$/Unit)
Table 75. World Cooling Infrared Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 76. World Cooling Infrared Chip Production by Application (2021-2026) & (Units)
Table 77. World Cooling Infrared Chip Production by Application (2027-2032) & (Units)
Table 78. World Cooling Infrared Chip Production Value by Application (2021-2026) & (USD Million)
Table 79. World Cooling Infrared Chip Production Value by Application (2027-2032) & (USD Million)
Table 80. World Cooling Infrared Chip Average Price by Application (2021-2026) & (US$/Unit)
Table 81. World Cooling Infrared Chip Average Price by Application (2027-2032) & (US$/Unit)
Table 82. RTX Corporation Basic Information, Manufacturing Base and Competitors
Table 83. RTX Corporation Major Business
Table 84. RTX Corporation Cooling Infrared Chip Product and Services
Table 85. RTX Corporation Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 86. RTX Corporation Recent Developments/Updates
Table 87. RTX Corporation Competitive Strengths & Weaknesses
Table 88. Lockheed Martin Corporation Basic Information, Manufacturing Base and Competitors
Table 89. Lockheed Martin Corporation Major Business

+357 96 030922
info@marketpublishers.com

Table 90. Lockheed Martin Corporation Cooling Infrared Chip Product and Services
Table 91. Lockheed Martin Corporation Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. Lockheed Martin Corporation Recent Developments/Updates
Table 93. Lockheed Martin Corporation Competitive Strengths & Weaknesses
Table 94. BAE Systems plc Basic Information, Manufacturing Base and Competitors
Table 95. BAE Systems plc Major Business
Table 96. BAE Systems plc Cooling Infrared Chip Product and Services
Table 97. BAE Systems plc Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. BAE Systems plc Recent Developments/Updates
Table 99. BAE Systems plc Competitive Strengths & Weaknesses
Table 100. Teledyne Technologies Incorporated Basic Information, Manufacturing Base and Competitors
Table 101. Teledyne Technologies Incorporated Major Business
Table 102. Teledyne Technologies Incorporated Cooling Infrared Chip Product and Services
Table 103. Teledyne Technologies Incorporated Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. Teledyne Technologies Incorporated Recent Developments/Updates
Table 105. Teledyne Technologies Incorporated Competitive Strengths & Weaknesses
Table 106. L3Harris Technologies, Inc. Basic Information, Manufacturing Base and Competitors
Table 107. L3Harris Technologies, Inc. Major Business
Table 108. L3Harris Technologies, Inc. Cooling Infrared Chip Product and Services
Table 109. L3Harris Technologies, Inc. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. L3Harris Technologies, Inc. Recent Developments/Updates
Table 111. L3Harris Technologies, Inc. Competitive Strengths & Weaknesses
Table 112. Leonardo S.p.A. Basic Information, Manufacturing Base and Competitors
Table 113. Leonardo S.p.A. Major Business
Table 114. Leonardo S.p.A. Cooling Infrared Chip Product and Services
Table 115. Leonardo S.p.A. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. Leonardo S.p.A. Recent Developments/Updates
Table 117. Leonardo S.p.A. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

Table 118. China Electronics Technology Group Corporation Basic Information, Manufacturing Base and Competitors
Table 119. China Electronics Technology Group Corporation Major Business
Table 120. China Electronics Technology Group Corporation Cooling Infrared Chip Product and Services
Table 121. China Electronics Technology Group Corporation Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 122. China Electronics Technology Group Corporation Recent Developments/Updates
Table 123. China Electronics Technology Group Corporation Competitive Strengths & Weaknesses
Table 124. Hamamatsu Photonics K.K. Basic Information, Manufacturing Base and Competitors
Table 125. Hamamatsu Photonics K.K. Major Business
Table 126. Hamamatsu Photonics K.K. Cooling Infrared Chip Product and Services
Table 127. Hamamatsu Photonics K.K. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. Hamamatsu Photonics K.K. Recent Developments/Updates
Table 129. Hamamatsu Photonics K.K. Competitive Strengths & Weaknesses
Table 130. Raytron Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 131. Raytron Technology Co., Ltd. Major Business
Table 132. Raytron Technology Co., Ltd. Cooling Infrared Chip Product and Services
Table 133. Raytron Technology Co., Ltd. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 134. Raytron Technology Co., Ltd. Recent Developments/Updates
Table 135. Raytron Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 136. Wuhan Guide Infrared Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 137. Wuhan Guide Infrared Co., Ltd. Major Business
Table 138. Wuhan Guide Infrared Co., Ltd. Cooling Infrared Chip Product and Services
Table 139. Wuhan Guide Infrared Co., Ltd. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 140. Wuhan Guide Infrared Co., Ltd. Recent Developments/Updates
Table 141. Wuhan Guide Infrared Co., Ltd. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

Table 142. Guangzhi Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 143. Guangzhi Technology Co., Ltd. Major Business
Table 144. Guangzhi Technology Co., Ltd. Cooling Infrared Chip Product and Services
Table 145. Guangzhi Technology Co., Ltd. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 146. Guangzhi Technology Co., Ltd. Recent Developments/Updates
Table 147. Guangzhi Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 148. LYNRED Basic Information, Manufacturing Base and Competitors
Table 149. LYNRED Major Business
Table 150. LYNRED Cooling Infrared Chip Product and Services
Table 151. LYNRED Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 152. LYNRED Recent Developments/Updates
Table 153. LYNRED Competitive Strengths & Weaknesses
Table 154. Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 155. Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Major Business
Table 156. Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Cooling Infrared Chip Product and Services
Table 157. Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 158. Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Recent Developments/Updates
Table 159. Beifang Yeshi Keji Yanjiuyuan Group Co., Ltd. Competitive Strengths & Weaknesses
Table 160. SemiConductor Devices Basic Information, Manufacturing Base and Competitors
Table 161. SemiConductor Devices Major Business
Table 162. SemiConductor Devices Cooling Infrared Chip Product and Services
Table 163. SemiConductor Devices Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 164. SemiConductor Devices Recent Developments/Updates
Table 165. SemiConductor Devices Competitive Strengths & Weaknesses
Table 166. AIM Infrarot-Module GmbH Basic Information, Manufacturing Base and Competitors

+357 96 030922
info@marketpublishers.com

Table 167. AIM Infrarot-Module GmbH Major Business
Table 168. AIM Infrarot-Module GmbH Cooling Infrared Chip Product and Services
Table 169. AIM Infrarot-Module GmbH Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 170. AIM Infrarot-Module GmbH Recent Developments/Updates
Table 171. AIM Infrarot-Module GmbH Competitive Strengths & Weaknesses
Table 172. i3system, Inc. Basic Information, Manufacturing Base and Competitors
Table 173. i3system, Inc. Major Business
Table 174. i3system, Inc. Cooling Infrared Chip Product and Services
Table 175. i3system, Inc. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 176. i3system, Inc. Recent Developments/Updates
Table 177. i3system, Inc. Competitive Strengths & Weaknesses
Table 178. VIGO Photonics S.A. Basic Information, Manufacturing Base and Competitors
Table 179. VIGO Photonics S.A. Major Business
Table 180. VIGO Photonics S.A. Cooling Infrared Chip Product and Services
Table 181. VIGO Photonics S.A. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 182. VIGO Photonics S.A. Recent Developments/Updates
Table 183. VIGO Photonics S.A. Competitive Strengths & Weaknesses
Table 184. IRnova AB Basic Information, Manufacturing Base and Competitors
Table 185. IRnova AB Major Business
Table 186. IRnova AB Cooling Infrared Chip Product and Services
Table 187. IRnova AB Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 188. IRnova AB Recent Developments/Updates
Table 189. IRnova AB Competitive Strengths & Weaknesses
Table 190. Zhejiang Qinfrared Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 191. Zhejiang Qinfrared Technology Co., Ltd. Major Business
Table 192. Zhejiang Qinfrared Technology Co., Ltd. Cooling Infrared Chip Product and Services
Table 193. Zhejiang Qinfrared Technology Co., Ltd. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 194. Zhejiang Qinfrared Technology Co., Ltd. Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

Table 195. Zhejiang Qinfrared Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 196. AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Basic Information, Manufacturing Base and Competitors
Table 197. AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Major Business
Table 198. AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Cooling Infrared Chip Product and Services
Table 199. AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 200. AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Recent Developments/Updates
Table 201. AVIC KAIMAI (SHANGHAI) INFRARED TECHNOLOGY CO., LTD. Competitive Strengths & Weaknesses
Table 202. Zhejiang Juexin Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 203. Zhejiang Juexin Microelectronics Co., Ltd. Major Business
Table 204. Zhejiang Juexin Microelectronics Co., Ltd. Cooling Infrared Chip Product and Services
Table 205. Zhejiang Juexin Microelectronics Co., Ltd. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 206. Zhejiang Juexin Microelectronics Co., Ltd. Recent Developments/Updates
Table 207. Zhejiang Juexin Microelectronics Co., Ltd. Competitive Strengths & Weaknesses
Table 208. ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Basic Information, Manufacturing Base and Competitors
Table 209. ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Major Business
Table 210. ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Cooling Infrared Chip Product and Services
Table 211. ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 212. ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Recent Developments/Updates
Table 213. ABSCIENCE (CHANGZHOU) OPTOELECTRONIC TECHNOLOGY CO., LTD. Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

Table 214. Zhongxin Recheng Technology (Beijing) Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 215. Zhongxin Recheng Technology (Beijing) Co., Ltd. Major Business
Table 216. Zhongxin Recheng Technology (Beijing) Co., Ltd. Cooling Infrared Chip Product and Services
Table 217. Zhongxin Recheng Technology (Beijing) Co., Ltd. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 218. Zhongxin Recheng Technology (Beijing) Co., Ltd. Recent Developments/Updates
Table 219. Zhongxin Recheng Technology (Beijing) Co., Ltd. Competitive Strengths & Weaknesses
Table 220. QmagiQ LLC Basic Information, Manufacturing Base and Competitors
Table 221. QmagiQ LLC Major Business
Table 222. QmagiQ LLC Cooling Infrared Chip Product and Services
Table 223. QmagiQ LLC Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 224. QmagiQ LLC Recent Developments/Updates
Table 225. QmagiQ LLC Competitive Strengths & Weaknesses
Table 226. Kolmar Technologies, Inc. Basic Information, Manufacturing Base and Competitors
Table 227. Kolmar Technologies, Inc. Major Business
Table 228. Kolmar Technologies, Inc. Cooling Infrared Chip Product and Services
Table 229. Kolmar Technologies, Inc. Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 230. Kolmar Technologies, Inc. Recent Developments/Updates
Table 231. Kolmar Technologies, Inc. Competitive Strengths & Weaknesses
Table 232. LASER COMPONENTS GmbH Basic Information, Manufacturing Base and Competitors
Table 233. LASER COMPONENTS GmbH Major Business
Table 234. LASER COMPONENTS GmbH Cooling Infrared Chip Product and Services
Table 235. LASER COMPONENTS GmbH Cooling Infrared Chip Production (Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 236. LASER COMPONENTS GmbH Recent Developments/Updates
Table 237. LASER COMPONENTS GmbH Competitive Strengths & Weaknesses
Table 238. Global Key Players of Cooling Infrared Chip Upstream (Raw Materials)
Table 239. Global Cooling Infrared Chip Typical Customers

+357 96 030922
info@marketpublishers.com

Table 240. Cooling Infrared Chip Typical Distributors

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Cooling Infrared Chip Picture
Figure 2. World Cooling Infrared Chip Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Cooling Infrared Chip Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Cooling Infrared Chip Production (2021-2032) & (Units)
Figure 5. World Cooling Infrared Chip Average Price (2021-2032) & (US$/Unit)
Figure 6. World Cooling Infrared Chip Production Value Market Share by Region (2021-2032)
Figure 7. World Cooling Infrared Chip Production Market Share by Region (2021-2032)
Figure 8. North America Cooling Infrared Chip Production (2021-2032) & (Units)
Figure 9. Europe Cooling Infrared Chip Production (2021-2032) & (Units)
Figure 10. China Cooling Infrared Chip Production (2021-2032) & (Units)
Figure 11. Japan Cooling Infrared Chip Production (2021-2032) & (Units)
Figure 12. South Korea Cooling Infrared Chip Production (2021-2032) & (Units)
Figure 13. Israel Cooling Infrared Chip Production (2021-2032) & (Units)
Figure 14. Cooling Infrared Chip Market Drivers
Figure 15. Factors Affecting Demand
Figure 16. World Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 17. World Cooling Infrared Chip Consumption Market Share by Region (2021-2032)
Figure 18. United States Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 19. China Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 20. Europe Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 21. Japan Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 22. South Korea Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 23. ASEAN Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 24. India Cooling Infrared Chip Consumption (2021-2032) & (Units)
Figure 25. Producer Shipments of Cooling Infrared Chip by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 26. Global Four-firm Concentration Ratios (CR4) for Cooling Infrared Chip Markets in 2025
Figure 27. Global Four-firm Concentration Ratios (CR8) for Cooling Infrared Chip Markets in 2025
Figure 28. United States VS China: Cooling Infrared Chip Production Value Market

+357 96 030922
info@marketpublishers.com

Share Comparison (2021 & 2025 & 2032)
Figure 29. United States VS China: Cooling Infrared Chip Production Market Share Comparison (2021 & 2025 & 2032)
Figure 30. United States VS China: Cooling Infrared Chip Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 31. United States Based Manufacturers Cooling Infrared Chip Production Market Share 2025
Figure 32. China Based Manufacturers Cooling Infrared Chip Production Market Share 2025
Figure 33. Rest of World Based Manufacturers Cooling Infrared Chip Production Market Share 2025
Figure 34. World Cooling Infrared Chip Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 35. World Cooling Infrared Chip Production Value Market Share by Type in 2025
Figure 36. Single-Element Detector Chip
Figure 37. Multi-Element Detector Chip
Figure 38. Other Specialized Array Chip
Figure 39. World Cooling Infrared Chip Production Market Share by Type (2021-2032)
Figure 40. World Cooling Infrared Chip Production Value Market Share by Type (2021-2032)
Figure 41. World Cooling Infrared Chip Average Price by Type (2021-2032) & (US$/Unit)
Figure 42. World Cooling Infrared Chip Production Value by Spectral Band, (USD Million), 2021 & 2025 & 2032
Figure 43. World Cooling Infrared Chip Production Value Market Share by Spectral Band in 2025
Figure 44. Short-Wave Infrared / SWIR
Figure 45. Mid-Wave Infrared / MWIR
Figure 46. Long-Wave Infrared / LWIR
Figure 47. Very-Long-Wave Infrared / VLWIR
Figure 48. Other
Figure 49. World Cooling Infrared Chip Production Market Share by Spectral Band (2021-2032)
Figure 50. World Cooling Infrared Chip Production Value Market Share by Spectral Band (2021-2032)
Figure 51. World Cooling Infrared Chip Average Price by Spectral Band (2021-2032) & (US$/Unit)
Figure 52. World Cooling Infrared Chip Production Value by Detector Material, (USD Million), 2021 & 2025 & 2032

+357 96 030922
info@marketpublishers.com

Figure 53. World Cooling Infrared Chip Production Value Market Share by Detector Material in 2025
Figure 54. Mercury Cadmium Telluride / MCT
Figure 55. Indium Antimonide / InSb
Figure 56. InAsSb and XBn
Figure 57. Other Detector Materials
Figure 58. World Cooling Infrared Chip Production Market Share by Detector Material (2021-2032)
Figure 59. World Cooling Infrared Chip Production Value Market Share by Detector Material (2021-2032)
Figure 60. World Cooling Infrared Chip Average Price by Detector Material (2021-2032) & (US$/Unit)
Figure 61. World Cooling Infrared Chip Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032
Figure 62. World Cooling Infrared Chip Production Value Market Share by Cooling Method in 2025
Figure 63. Mechanical Cryocooling
Figure 64. Joule–Thomson Cooling
Figure 65. Liquid-Nitrogen Cooling
Figure 66. Other Cooling Methods
Figure 67. World Cooling Infrared Chip Production Market Share by Cooling Method (2021-2032)
Figure 68. World Cooling Infrared Chip Production Value Market Share by Cooling Method (2021-2032)
Figure 69. World Cooling Infrared Chip Average Price by Cooling Method (2021-2032) & (US$/Unit)
Figure 70. World Cooling Infrared Chip Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 71. World Cooling Infrared Chip Production Value Market Share by Application in 2025
Figure 72. Public Safety
Figure 73. Electricity
Figure 74. Medical
Figure 75. Aerospace
Figure 76. Other
Figure 77. World Cooling Infrared Chip Production Market Share by Application (2021-2032)
Figure 78. World Cooling Infrared Chip Production Value Market Share by Application (2021-2032)

+357 96 030922
info@marketpublishers.com

Figure 79. World Cooling Infrared Chip Average Price by Application (2021-2032) & (US$/Unit)
Figure 80. Cooling Infrared Chip Industry Chain
Figure 81. Cooling Infrared Chip Procurement Model
Figure 82. Cooling Infrared Chip Sales Model
Figure 83. Cooling Infrared Chip Sales Channels, Direct Sales, and Distribution
Figure 84. Methodology
Figure 85. Research Process and Data Source

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Cooling Infrared Chip Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/GF61220B01D8EN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GF61220B01D8EN.html