

Global Angle-selective Thermal Emitters Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G82AABF389EAEN.html>

Date: February 2026

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: G82AABF389EAEN

Abstracts

The global Angle-selective Thermal Emitters market size is expected to reach \$ 1790 million by 2032, rising at a market growth of 13.4% CAGR during the forecast period (2026-2032).

In 2025, global angle-selective thermal emitter output reached about 3.3 million units versus installed capacity of roughly 4.2 million units, with average unit price USD 220, and industry-wide gross margins near 41%. Angle-selective thermal emitters are engineered photonic surfaces that radiate heat as infrared light only within designed angular windows, suppressing emission in other directions to control where thermal energy is delivered or detected. By combining micro-/nano-structured metasurfaces, multilayer photonic crystals, or patterned plasmonic films with high-temperature substrates (sapphire, silicon carbide, alumina, or refractory metals), these devices enable directional IR output for applications such as thermophotovoltaics, infrared signaling, stealth and thermal management, and gas sensing. Their supply chain begins with upstream material providers of refractory metals (W, Mo, Ta), doped semiconductors, and ceramic wafers; moves to midstream fabrication specialists using thin-film deposition (ALD, PVD, CVD), nanoimprint lithography, e-beam/DUV lithography, and etching to form angle-dependent optical stacks; and ends with downstream integrators that package the emitters into burners, IR sources, TPV modules, sensing heads, and defense or aerospace subsystems, typically sold as functional components rather than standalone consumer products.

This report studies the global Angle-selective Thermal Emitters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Angle-

selective Thermal Emitters 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 Angle-selective Thermal Emitters that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Angle-selective Thermal Emitters total production and demand, 2021-2032, (Units)

Global Angle-selective Thermal Emitters total production value, 2021-2032, (USD Million)

Global Angle-selective Thermal Emitters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Angle-selective Thermal Emitters consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Angle-selective Thermal Emitters domestic production, consumption, key domestic manufacturers and share

Global Angle-selective Thermal Emitters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Angle-selective Thermal Emitters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Angle-selective Thermal Emitters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Angle-selective Thermal Emitters 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 Infrasilid, Excelitas, Vishay, Lumentum, NKT Photonics, GLOphotonics, Opalux, Fianium, Crystal IS, IPG Photonics, 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 Angle-selective Thermal Emitters 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 Angle-selective Thermal Emitters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Angle-selective Thermal Emitters Market, Segmentation by Type:

Periodicity Controlled Emitters

Interference Based Emitters

Global Angle-selective Thermal Emitters Market, Segmentation by Operating Temperature:

Low-temperature Emitters (800 °C)

Global Angle-selective Thermal Emitters Market, Segmentation by Application:

Automotive

Aerospace & Defense

Energy & Power

Industrial & Manufacturing

Electronics & Semiconductors

Others

Companies Profiled:

Infrasolid

Excelitas

Vishay

Lumentum

NKT Photonics

GLOphotonics

Opalux

Fianium

Crystal IS

IPG Photonics

Photonic Lattice

Furukawa Electric

Gooch & Housego

Hamamatsu Photonics

Key Questions Answered:

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

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