

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market size is expected to reach \$ 36.57 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global sales of Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal were approximately 35,500 pieces. Based on the standard small- and medium-sized coated finished crystal basis, the global average market price was around USD 650 per piece, and the gross margin of major manufacturers was approximately 30%-50%.

Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal is a solid-state laser gain crystal using yttrium aluminum garnet as the host material and Er³⁺ as the active ion. Its typical output wavelength is approximately 2.94 μ m/2940 nm, which lies in the infrared band where water exhibits strong absorption. The crystal features high optical uniformity, stable laser output, good adaptability to pulsed operation, and strong tissue ablation efficiency, making it a core gain material for 2.94 μ m mid-infrared solid-state lasers.

The upstream industry chain mainly includes high-purity yttrium oxide, aluminum oxide, erbium oxide, crystal growth seed crystals, crucibles, crystal growth furnaces, polishing materials, coating materials, and optical testing equipment. The midstream covers Er:YAG crystal growth, dopant concentration control, oriented cutting, grinding and polishing, end-face coating, and finished product testing. The downstream applications mainly include medical aesthetics, surgical medicine, dental medicine, research and experimental laser, and industrial and specialty laser fields. Product value is mainly concentrated in crystal growth quality, doping uniformity, processing precision, and

coating reliability.

This report studies the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal 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 Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal total production and demand, 2021-2032, (Units)

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal total production value, 2021-2032, (USD Million)

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal domestic production, consumption, key domestic manufacturers and share

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Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal 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 CRYTUR, Teledyne FLIR Defense, Northrop Grumman SYNOPTICS, Arsuf Lasers, Coherent, Shanghai Kingwin Technology, Chengdu Xinyuan Huibo Photoelectric Technology, BOYA Materials, CASTECH, Crylink, 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 Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal 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 Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal Market, Segmentation by Type:

1–10 at.% Low-doped

20 at.% Moderately Doped

50 at.% Highly Doped

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal Market, Segmentation by Coating Treatment:

Coated

Uncoated

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal Market, Segmentation by Application:

Medical Aesthetics

Surgical Medicine

Dental Medicine

Research And Experimental Laser

Industrial And Specialty Laser

Other

Companies Profiled:

CRYTUR

Teledyne FLIR Defense

Northrop Grumman SYNOPTICS

Arsuf Lasers

Coherent

Shanghai Kingwin Technology

Chengdu Xinyuan Huibo Photoelectric Technology

BOYA Materials

CASTECH

Crylink

HG Optronics

AOG Crystal

DIEN TECH

BJP Crystal

Fuzhou Tengqi Optoelectronics

Key Questions Answered:

1. How big is the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market?
2. What is the demand of the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market?
3. What is the year over year growth of the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market?
4. What is the production and production value of the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market?
5. Who are the key producers in the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market?
6. What are the growth factors driving the market demand?

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