

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GE8994738D69EN.html>

Date: June 2026

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: GE8994738D69EN

Abstracts

According to our (Global Info Research) latest study, the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market size was valued at US\$ 23.75 million in 2025 and is forecast to a readjusted size of US\$ 36.57 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

1–10 at.% Low-doped

20 at.% Moderately Doped

50 at.% Highly Doped

Market segment by Coating Treatment

Coated

Uncoated

Market segment by Application

Medical Aesthetics

Surgical Medicine

Dental Medicine

Research And Experimental Laser

Industrial And Specialty Laser

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal, with price, sales quantity, revenue, and global market share of Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal from 2021 to 2026.

Chapter 3, the Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal.

Chapter 14 and 15, to describe Erbium Doped Yttrium Aluminum Garnet(Er:YAG) Crystal sales channel, distributors, customers, research findings and conclusion.

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