

Global Laser Crystal Market 2018 by Manufacturers, Regions, Type and Application, Forecast to 2023

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Abstracts

Laser crystal may refer to: Active laser medium, the source of optical gain within a laser; bubblegram, a 3D image composed of points suspended in a medium, typically a plastic block.

Scope of the Report:

This report focuses on the Laser Crystal in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Laser devices are generally divided into solid laser, liquid laser, gas laser, and semiconductor laser. The most common lasers are CO₂ laser, ruby laser, He-Ne laser, neodymium glass laser and others. Crystal material is widely used in lasers. Crystals used in laser is laser crystal. Laser crystals are made from mono crystalline material which is used as an active gain medium in solid state laser systems. The laser gain medium is used to amplify the power of light. Such a gain medium is required in the laser to compensate for resonator losses. The optical properties of a given crystal are determined by the crystal's composition which decides the optimal application or laser type for that crystal. Some of the commonly used laser crystals available for integration include Nd: YAG (Neodymium Doped Yttrium Aluminum Garnet), GGG Doped, Nd: YVO₄ (Neodymium Doped Yttrium Vanadate), Yb: KYW, Yb: KGW (Ytterbium Doped Potassium Gadolinium Tungstate), and Ti: Sapphire..Nd: YAG (Neodymium Doped Yttrium Aluminum Garnet). They feature high optical homogeneity, high laser damage thresholds, processing accuracy and excellent stability. Nd: YVO₄ (Neodymium Doped Yttrium Vanadate) laser crystals have high damage thresholds, strong mechanical properties, and superior optical properties. Nd: YVO₄ laser crystals can lase at 1342

nm, 1064 nm, and 914 nm with associated harmonics in the green and blue wavelengths. Ti: Sapphire laser crystals have large gain and emission bandwidths with high laser damage thresholds and saturation power. Ti:Sapphire laser crystals are ideal for ultra-fast lasers and oscillators. Yb: KGW (Ytterbium Doped Potassium Gadolinium Tungstate) is used to generate high power and ultra-short pulses. They offer a broad laser output at 1020-1060 nm.

The worldwide market for Laser Crystal is expected to grow at a CAGR of roughly 2.9% over the next five years, will reach 150 million US\$ in 2023, from 130 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

All-Chemie

International Crystal Laboratories

Sawyer Technical Materials

TechnicaLaser

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Ti: Sapphire Crystals

Nd: YVO4 Crystals

Nd: YAG Crystals

Yb: KGW Crystals

Yb: KYW Crystals

Yb: YAG Crystals

Yb: CaF2 Crystals

Market Segment by Applications, can be divided into

Soft or Hard Tissue

Industrial and High Power Solid State

Scientific Research

There are 15 Chapters to deeply display the global Laser Crystal market.

Chapter 1, to describe Laser Crystal Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Laser Crystal, with sales, revenue, and price of Laser Crystal, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Laser Crystal, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Laser Crystal market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Laser Crystal sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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