

# Nonlinear Optical Crystals (NLO) Market, Global Outlook and Forecast 2022-2028

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## Abstracts

NLO Crystals is short for Nonlinear Crystals, means the crystals that can generate nonlinear optical effect from laser beam or electricity, magnetic field and strain field.

Non-linear Optical Crystals (NLO Crystals) have extended the laser spectrum from deep UV to far IR by various harmonic generations (like SHG, THG, 4HG, 5HG), sum frequency generations, difference frequency generations, optical parametric oscillators, etc.

The most common non-linear optical crystals include KTP, beta-BBO, LBO, CLBO, DKDP, ADP, KDP, LiIO<sub>3</sub>, KNbO<sub>3</sub>, LiNbO<sub>3</sub>, AgGaS<sub>2</sub>, AgGaSe<sub>2</sub> etc. Each one has its own pros and cons.

This report contains market size and forecasts of Nonlinear Optical Crystals (NLO) in global, including the following market information:

Global Nonlinear Optical Crystals (NLO) Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Nonlinear Optical Crystals (NLO) Market Sales, 2017-2022, 2023-2028, (MT)

Global top five Nonlinear Optical Crystals (NLO) companies in 2021 (%)

The global Nonlinear Optical Crystals (NLO) market was valued at 6293.2 million in 2021 and is projected to reach US\$ 7987.4 million by 2028, at a CAGR of 3.5% during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

KTP Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Nonlinear Optical Crystals (NLO) include Eksma Optics, Hangzhou Shalom EO, EKSMA Optics, Red Optronics, Cristal Laser S.A, Raicol Crystals Ltd., Newlight Photonics, CASTECH and Inrad Optics, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Nonlinear Optical Crystals (NLO) manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Nonlinear Optical Crystals (NLO) Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Nonlinear Optical Crystals (NLO) Market Segment Percentages, by Type, 2021 (%)

KTP

BBO

LBO

CLBO

DKDP

ADP

KDP

Others

Global Nonlinear Optical Crystals (NLO) Market, by Application, 2017-2022, 2023-2028  
(\$ Millions) & (MT)

Global Nonlinear Optical Crystals (NLO) Market Segment Percentages, by Application,  
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Laser Technology

Medical

Underwater Photography

Optical Communication

Optical Ranging

Nuclear Fusion

Others

Global Nonlinear Optical Crystals (NLO) Market, By Region and Country, 2017-2022,  
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Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

## Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Nonlinear Optical Crystals (NLO) revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Nonlinear Optical Crystals (NLO) revenues share in global market, 2021 (%)

Key companies Nonlinear Optical Crystals (NLO) sales in global market, 2017-2022 (Estimated), (MT)

Key companies Nonlinear Optical Crystals (NLO) sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Eksma Optics

Hangzhou Shalom EO

EKSMA Optics

Red Optronics

Cristal Laser S.A

Raicol Crystals Ltd.

Newlight Photonics

CASTECH

Inrad Optics

GAMDAN Optics

Gooch & Housego

WTS PHOTONICS

HC Photonics Corp.

Covesion

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