

Non-Linear Optical Materials and Applications: Market Research Report

https://marketpublishers.com/r/NA58623DCA8EN.html

Date: February 2009

Pages: 177

Price: US\$ 3,950.00 (Single User License)

ID: NA58623DCA8EN

Abstracts

This report analyzes the global market for Non-Linear Optical Materials and Applications in Millions of US\$.

The specific product segments analyzed are Lithium-Niobate (LiNbO3), Potassium Titanyl Phosphate (KTP), ß-Barium Borate (BBO), Lithium Triborate (LBO), and Others including PPKTP (Periodically Poled Potassium Titanyl Phosphate), CLBO (Caesium lithium borate), KDP (Potassium dihydrogen phosphate), RTP (Rubidium Titanyle Phosphate).

Annual forecasts are provided for the period of 2006 through 2015.

A four-year historic analysis is also provided.

The report profiles 84 companies including many key and niche players worldwide such as CASIX, Inc., Cleveland Crystals, Inc., Coherent, Inc., Conoptics, Inc., Cristal Laser SA, Crystal Technology, Inc., Deltronic Crystal Industries, Inc., EKSMA OPTICS, Fujian Castech Crystals, Inc., Inrad Inc., JDS Uniphase Corporation, Laser Optics, LINOS Photonics GmbH & Co. KG, Northrop Grumman Synoptics, Nova Phase, Inc., Quantum Technology, Inc., Raicol Crystals Ltd., Saint-Gobain Crystals, and Vloc, Inc.

Market data and analytics are derived from primary and secondary research.

Company profiles are mostly extracted from URL research and reported select online sources.



Contents

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations

Disclaimers

Data Interpretation & Reporting Level

Quantitative Techniques & Analytics

Product Definitions and Scope of Study

Lithium-Niobate (LiNbO3)

Potassium Titanyl Phosphate (KTP)

Barium Borate (BBO) & Lithium Triborate (LBO)

Barium Borate (BBO)

Lithium Triborate (LBO)

Other Nonlinear Optical Materials

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW

Global Market Overview and Analysis

Demand for NLO Materials to Rise

Global Extension of Bandwidth Infrastructure to Boost Demand

Demand from Communication Sector to Drive Market Growth

Potential Applications

2. PRODUCT OVERVIEW

Non-linear Optical Materials

Mechanism of Non-linearity

Organic and Inorganic Non-linear materials

Review of Select Non-linear Optical Phenomena

Classification

Chemical Formulas of Select Non-linear Optical Crystals

Raw Materials and Technique Involved in Preparation of Select NLO Materials

Review of Select Non-linear Optical Materials

Lithium niobate (LiNbO3)

LilO3 (Lithium Iodate)

Potassium Titanyl Phosphate (KTP)



Barium Borate (BBO)

Lithium Triborate (LBO)

PPKTP (Periodically Poled Potassium Titanyl Phosphate)

CLBO (Caesium lithium borate)

KDP (Potassium dihydrogen phosphate)

RTP (Rubidium Titanyle Phosphate)

Rotators and Isolators

Table 1. World Recent Past, Current & Future Analysis for Rotators and Isolators with Annual Sales Figures in US\$ Million for Years 2006 through 2015 (includes corresponding Graph/Chart)

Application Areas

Optical Materials and Information Technology

Quantum Dot - Applications

Quantum Dots for Better Photonic Switching

Lasers

Production of Photonic Nanostructures in Non-linear Optical Polymers

3. PRODUCT DEVELOPMENT/LAUNCHES

Fujitsu and HHI Develop Ultra High-Speed Optical Switch

Avanex Expands LiNbO3 Modulators Product Line

Avanex Launches Novel Modulator

COVEGA Launches New Optical Modulator

Avanex Unveils Ultra-Low Voltage 10 Gb/s LiNbO3 Modulator

Inventors Develop Non-Linear Photonic Switch

Inventors Develop Crystalline Non-linear Optical Film

Centre for Integrated Photonics Launches Semiconductor Optical Amplifier

NanoOpto Launches Sub Wave Optical Isolator

4. RECENT INDUSTRY ACTIVITY

Opnext to acquire StrataLight

Battelle Acquires Optimer Photonics

Gemfire Corporation Merges with Covega Corporation

Enablence Pockets ANDevices

L-3 Communications Takes Over North Grumman



Enablence Takes Over DuPont Photonics

II-VI Inc. Acquires Higvag Lasertechnologie

Optimum Corp. Acquires Kailight Photonics

Infinera Corp Takes Over Little Optics

Finisar Corp. Takes Over AZNA LLC

CVI Laser Acquires Melles Griot

CyOptics Acquires Inplane Photonics

CVI Melles Griot Takes Over Coherent

Arasor International Takes Over Bandwidth Foundry

Oplink Communications Takes Over Optical Communication Products

NeoPhotonics Takes Over Paxera

StockerYale Takes Over Photonic Products

Intra-Asia Entertainment to Take Over Beijing SWT

Agilent Technologies Takes Over PXIT

Dynasil Corp. Takes Over Evaporated Metal Films

Fujitsu to Establish Business Support Center in Europe

Siemens Acquires Elpro's Isolator Unit

5. FOCUS ON SELECT PLAYERS

CASIX, Inc. (China)

Cleveland Crystals, Inc. (US)

Coherent, Inc. (US)

Conoptics, Inc. (US)

Cristal Laser SA (France)

Crystal Technology, Inc. (US)

Deltronic Crystal Industries, Inc. (US)

EKSMA OPTICS (Lithuania)

Fujian Castech Crystals, Inc. (China)

Inrad Inc. (US)

JDS Uniphase Corporation (US)

Laser Optics (US)

LINOS Photonics GmbH & Co. KG (Germany)

Northrop Grumman Synoptics (US)

Nova Phase, Inc. (US)

Quantum Technology, Inc. (US)

Raicol Crystals Ltd. (Israel)

Saint-Gobain Crystals (France)

Vloc, Inc. (US)



6. GLOBAL MARKET PERSPECTIVE

Table 2. World Recent Past, Current & Future Analysis for Non-linear Optical Materials by Product Segments – Lithium-Niobate; Potassium Titanyl Phosphate; Barium Borate, Lithium Triborate; and Other Non-linear Optical Materials Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2006 through 2015 (includes corresponding Graph/Chart)

Table 3. World Historic Review for Non-linear Optical Materials by Product Segments – Lithium-Niobate; Potassium Titanyl Phosphate; Barium Borate, Lithium Triborate; and Other Non-linear Optical Materials Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2002 through 2005 (includes corresponding Graph/Chart)

Table 4. World 10-Year Perspective for Non-linear Optical Materials by Product Segments – Percentage Breakdown of Dollar Sales for Lithium-Niobate; Potassium Titanyl Phosphate; Barium Borate, Lithium Triborate; and Other Non-linear Optical Materials for 2006, 2009 and 2015 (includes corresponding Graph/Chart)

III. COMPETITIVE LANDSCAPE



I would like to order

Product name: Non-Linear Optical Materials and Applications: Market Research Report

Product link: https://marketpublishers.com/r/NA58623DCA8EN.html

Price: US\$ 3,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/NA58623DCA8EN.html