

Artificial Saturable Absorber Market, Global Outlook and Forecast 2022-2028

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Abstracts

An artificial saturable absorber is an optical component with a certain absorption loss for light, which is reduced at high optical intensities. Such nonlinear absorption can occur, e.g., in a medium with absorbing dopant ions, when a strong optical intensity leads to depletion of the ground state of these ions. Similar effects can occur in semiconductors, where excitation of electrons from the valence band into the conduction band reduces the absorption for photon energies just above the band gap energy. There are also artificial saturable absorbers, where there is no real absorption, but an optical loss which decreases for increasing optical power.

This report contains market size and forecasts of Artificial Saturable Absorber in global, including the following market information:

Global Artificial Saturable Absorber Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Artificial Saturable Absorber Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Artificial Saturable Absorber companies in 2021 (%)

The global Artificial Saturable Absorber market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period 2022-2028.

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

Gallium Arsenide(GaAs) Artificial Saturable Absorber Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Artificial Saturable Absorber include EKSMA Optics, ALPHALAS, RefleKron, Hangzhou Shalom Electro-optics Technology, AZURE Photonics, Beijing JIEPU TREND Technology, CASIX, DayOptics and Erbium Technology (Chengdu), etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Artificial Saturable Absorber 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 Artificial Saturable Absorber Market, by Material, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Artificial Saturable Absorber Market Segment Percentages, by Material, 2021 (%)

Gallium Arsenide(GaAs) Artificial Saturable Absorber

Carbon Nanotube(CNT) Artificial Saturable Absorber

Graphene Artificial Saturable Absorber

Cr:YAG Crystal Artificial Saturable Absorber

Others

Global Artificial Saturable Absorber Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Artificial Saturable Absorber Market Segment Percentages, by Application, 2021 (%)

Passive Mode Locking

Q Switching of Lasers

Light Pulses

Optical Signal Processing

Global Artificial Saturable Absorber Market, By Region and Country, 2017-2022,
2023-2028 (\$ Millions) & (K Units)

Global Artificial Saturable Absorber Market Segment Percentages, By Region and
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 Artificial Saturable Absorber revenues in global market, 2017-2022
(Estimated), (\$ millions)

Key companies Artificial Saturable Absorber revenues share in global market, 2021 (%)

Key companies Artificial Saturable Absorber sales in global market, 2017-2022
(Estimated), (K Units)

Key companies Artificial Saturable Absorber sales share in global market, 2021 (%)

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

EKSMA Optics

ALPHALAS

RefleKron

Hangzhou Shalom Electro-optics Technology

AZURE Photonics

Beijing JIEPU TREND Technology

CASIX

DayOptics

Erbium Technology (Chengdu)

HG Optronics

Hangzhou Yong Hee Photonics

Metalaser

BATOP

Crytur

Electro-Optics Technology

FEE

Komlas Optische Komponenten und Lasersysteme

Laserand

Moltech

Newlight Photonics

Red Optronics

Scientific Materials

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