

Liquid Crystal Variable Retarders (LCVR) Market, Global Outlook and Forecast 2022-2028

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Abstracts

A Liquid Crystal Variable Retarder (LCVR, also called a phase retarder or rotator) is a liquid crystal filled waveplate device placed in the light path of an optical system to allow its electronic modulation, by phase retardation or rotation of the plane of polarization. LCVRs are filled with a solution of nematic liquid crystal (LC) molecules which rotate the plane of polarization of transmitted light. Two transparent conductive films¹ allow an AC voltage to be applied across the optics cell. As the voltage is increased, the default orientation of the LC molecules is disrupted, changing the degree of rotation or optical phase retardation of transmitted polarized light.

This report contains market size and forecasts of Liquid Crystal Variable Retarders (LCVR) in global, including the following market information:

Global Liquid Crystal Variable Retarders (LCVR) Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Liquid Crystal Variable Retarders (LCVR) Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Liquid Crystal Variable Retarders (LCVR) companies in 2021 (%)

The global Liquid Crystal Variable Retarders (LCVR) market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

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

Aperture 10 mm Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Liquid Crystal Variable Retarders (LCVR) include ARCoOptix, Thorlabs, Meadowlark Optics, Knight Optical, LC-Tec Displays and Uni-opto, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Liquid Crystal Variable Retarders (LCVR) 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 Liquid Crystal Variable Retarders (LCVR) Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Liquid Crystal Variable Retarders (LCVR) Market Segment Percentages, by Type, 2021 (%)

Aperture 10 mm

Aperture 20 mm

Others

Global Liquid Crystal Variable Retarders (LCVR) Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Liquid Crystal Variable Retarders (LCVR) Market Segment Percentages, by Application, 2021 (%)

Industrial Application

Scientific & Research

Others

Global Liquid Crystal Variable Retarders (LCVR) Market, By Region and Country,
2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Liquid Crystal Variable Retarders (LCVR) 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 Liquid Crystal Variable Retarders (LCVR) revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Liquid Crystal Variable Retarders (LCVR) revenues share in global

market, 2021 (%)

Key companies Liquid Crystal Variable Retarders (LCVR) sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Liquid Crystal Variable Retarders (LCVR) sales share in global market, 2021 (%)

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

ARCOptix

Thorlabs

Meadowlark Optics

Knight Optical

LC-Tec Displays

Uni-opto

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