

# DMD Chip Market, Global Outlook and Forecast 2022-2028

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## Abstracts

At the core of every DLP chipset is an array of highly reflective aluminum micromirrors, which is known as digital micromirror devices (DMD). DMD is an electronic input/optical output micro-electromechanical system (MEMS), which allows developers to perform high-speed, efficient and reliable spatial light modulation.

Using TI's semiconductor technology, each DMD contains up to 2 million independently controlled micromirrors (built on corresponding CMOS memory cells). During operation, the DMD controller loads a '1' or a '0' for each basic storage unit. Next, a mirror reset pulse is applied, which causes each micromirror to deviate electrostatically by approximately one hinge, thereby achieving a corresponding  $\pm 12^\circ$  state. Due to the resistance of the two spring thimble and the physical stop, the deviation angle of these two effective states is repeatable. In a projection system, the  $+12^\circ$  state corresponds to 'on' pixels, and the  $-12^\circ$  state corresponds to 'off' pixels. Grayscale graphics are created by programming the on/off duty cycle of each lens, and multiple light sources can be multiplexed to create RGB full-color images.

This report contains market size and forecasts of DMD Chip in global, including the following market information:

Global DMD Chip Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global DMD Chip Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five DMD Chip companies in 2021 (%)

The global DMD Chip 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.

720P Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of DMD Chip include Texas Instruments (TI). etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the DMD Chip 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 DMD Chip Market, by Maximum Display Resolution, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global DMD Chip Market Segment Percentages, by Maximum Display Resolution, 2021 (%)

720P

1080P

WXGA

4K

Others

Global DMD Chip Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global DMD Chip Market Segment Percentages, by Application, 2021 (%)

Portable Projector

Home Projector

Commercial Projector

Others

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

Global DMD Chip 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 DMD Chip revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies DMD Chip revenues share in global market, 2021 (%)

Key companies DMD Chip sales in global market, 2017-2022 (Estimated), (K Units)

Key companies DMD Chip sales share in global market, 2021 (%)

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

Texas Instruments (TI)

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