

Global Micro-channel Plate (MCP) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Micro-channel Plate (MCP) market size was valued at US\$ 293 million in 2025 and is forecast to a readjusted size of US\$ 663 million by 2032 with a CAGR of 12.5% during review period.

A microchannel plate (MCP) is essentially a fast high-gain amplifier for electrons, having many parallel spatial channels for use in imaging applications. It is directly sensitive not only to input electrons, but also to other charged particles (e.g. ions or elementary particles) and to electromagnetic radiation with sufficiently short wavelength (high photon energy), i.e., from the ultraviolet to soft X-rays. The detection efficiency (quantum efficiency) generally depends on the type and energy of the particles or the photons. For obtaining sensitivity to visible or infrared light, one can use a photocathode in front of the MCP. MCPs are used in various photonic instruments, particularly in image intensifiers and image converters. Besides, they are also applied for the detection of X-rays in medical diagnosis or for industrial inspection. Other application areas are time-of-flight mass spectrometry, nuclear physics, other fundamental physics and electron microscopy.

Global core Micro-channel Plate (MCP) manufacturers include Hamamatsu Photonics, North Night Vision, PHOTONIS Technologies S.A.S.etc. The top 2 companies hold a share over 70%.Asia-Pacific is the largest market, with a share about 40%, followed by Europe and North America with the share about 30% and 27%.In terms of product, circular MCP is the largest segment, with a share over 70%. And in terms of application, the largest application is night vision devices, followed by experimental physics. Increasing research and development activities in the field of physics is a major factor driving growth of the market. Areas such as nuclear studies and beam fusion studies

require micro channel plate. This requirement is expected to result in increasing demand for micro-channel plate over the forecast period. Moreover, micro-channel plate finds application in fields such as astrophysics and space, experimental & nuclear physics, electron and ion microscopy, spectrometry, and instance, micro-channel plate detector is used in night vision glasses and the demand for night vision devices is increasing, which subsequently drives the micro-channel plate (MCP) market growth.

This report is a detailed and comprehensive analysis for global Micro-channel Plate (MCP) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Micro-channel Plate (MCP) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Micro-channel Plate (MCP) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Micro-channel Plate (MCP) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2021-2032

Global Micro-channel Plate (MCP) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Micro-channel Plate (MCP)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Micro-channel Plate (MCP) market based on the following parameters - company overview, sales quantity, revenue, price, gross

margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hamamatsu Photonics, North Night Vision, PHOTONIS Technologies S.A.S., Incom, Baspik, Tectra GmbH, Topag Lasertechnik GmbH, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Micro-channel Plate (MCP) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Circular MCP

Rectangular MCP

Others

Market segment by Application

Night Vision Devices

Experimental Physics

Medical Diagnosis

Others

Major players covered

Hamamatsu Photonics

North Night Vision

PHOTONIS Technologies S.A.S.

Incom

Baspik

Tectra GmbH

Topag Lasertechnik GmbH

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Micro-channel Plate (MCP) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Micro-channel Plate (MCP), with price, sales quantity, revenue, and global market share of Micro-channel Plate (MCP) from 2021 to 2026.

Chapter 3, the Micro-channel Plate (MCP) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Micro-channel Plate (MCP) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Micro-channel Plate (MCP) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Micro-channel Plate (MCP).

Chapter 14 and 15, to describe Micro-channel Plate (MCP) sales channel, distributors, customers, research findings and conclusion.

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