

Global MCP Detector Market Growth 2026-2032

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Abstracts

The global MCP Detector market size is predicted to grow from US\$ 84.62 million in 2025 to US\$ 152 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 2032.

A microchannel plate detector is a high-sensitivity vacuum detector, detector assembly, or detector system that uses a microchannel plate as the core electron multiplication element. It detects electrons, ions, VUV/UV photons, soft X-rays, gamma-ray-induced secondary signals, neutron-conversion signals, or photoelectrons emitted from a photocathode, and converts them into electrical, timing, positional, or imaging outputs through a metal anode, delay-line anode, multi-anode readout, phosphor screen, integrated electronics, or MCP-PMT architecture. Under the narrow scope of this report, the market mainly covers bare MCPs supplied for detector use, MCP assemblies, open-face and flange-mounted MCP detectors, MCP-PMTs, position-sensitive and time-resolved MCP detectors, VUV/soft-X-ray detectors, neutron-sensitive MCP detectors, and dedicated MCP-based detector systems for mass spectrometry, surface analysis, semiconductor inspection, high-energy physics, space science, neutron imaging, and advanced scientific instrumentation.

Typical prices range from several thousand US dollars for bare plates or simple assemblies to tens of thousands of US dollars for MCP-PMTs and delay-line detectors, and can exceed one hundred thousand US dollars for neutron imaging or highly customised scientific detector systems. Pricing is primarily determined by active area, pore geometry, gain, lifetime, dark count, timing resolution, spatial resolution, photocathode configuration, vacuum packaging, and readout electronics complexity.

Based on our research, the microchannel plate detector market should be understood as a specialised high-performance detector market rather than a broad commodity sensor market. Its industrial value is anchored in vacuum electron multiplication,

ultrafast timing, two-dimensional imaging, position-sensitive readout, and the detection of electrons, ions, VUV/UV photons, soft X-rays, neutron-conversion signals, and other difficult-to-detect signals. Demand is concentrated in mass spectrometry, surface analysis, semiconductor inspection, electron-beam diagnostics, high-energy physics, space science, VUV and soft-X-ray detection, neutron imaging, and advanced scientific instrumentation. Compared with conventional PMTs, APDs, SiPMs, CMOS sensors, and scintillator-coupled detectors, MCP detectors offer distinctive advantages in gain, speed, spatial resolution, and vacuum compatibility, but they also face constraints in packaging, lifetime, dark count, cost, and customisation complexity.

From the supply side, the market is structurally narrow and technically concentrated. Hamamatsu and Exosens represent the most comprehensive global suppliers, supported by broad product coverage, established manufacturing capabilities, and deep customer access. Around them, a group of specialised companies such as Photek, Incom, Surface Concept, RoentDek, BASPIK, Tectra, Quantar, McPherson, and Torr Scientific serve more focused niches, including MCP-PMTs, ALD-coated MCPs, delay-line detectors, VUV and soft-X-ray intensifiers, and customised scientific detector systems. China has a credible domestic supplier in North Night Vision for large-area MCP-PMT and neutron-sensitive MCP-related projects, but its open commercial supplier base remains narrower than that of Europe, Japan, and North America.

From the demand perspective, growth is not driven by a single mass-market application. Instead, it is supported by a portfolio of specialised end uses: stable replacement and instrument demand from mass spectrometry and surface analysis; higher-performance requirements from semiconductor inspection and electron-beam diagnostics; project-based demand from high-energy physics and neutrino experiments; and emerging opportunities in neutron imaging, VUV/soft-X-ray detection, space payloads, and ultrafast photon detection. This demand structure produces a market with modest unit volumes but high average selling prices, strong customisation, and relatively high entry barriers.

From a technology roadmap perspective, the industry is moving from basic MCP plates and simple anode readouts toward ALD-coated long-life MCPs, large-area MCP-PMTs, delay-line and multi-anode readouts, integrated detector electronics, neutron-sensitive MCPs, and fully engineered imaging detector systems. Future competition will increasingly be decided by active area, lifetime, gain stability, timing resolution, spatial resolution, packaging reliability, readout electronics, and application-specific engineering. Solid-state detector technologies will continue to substitute MCP detectors in certain lower-cost or highly integrated use cases, but MCP detectors are expected to

remain relevant in applications where vacuum compatibility, ultrafast response, high gain, and position-sensitive detection are mission-critical.

LP Information, Inc. (LPI) ' newest research report, the "MCP Detector Industry Forecast" looks at past sales and reviews total world MCP Detector sales in 2025, providing a comprehensive analysis by region and market sector of projected MCP Detector sales for 2026 through 2032. With MCP Detector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world MCP Detector industry.

This Insight Report provides a comprehensive analysis of the global MCP Detector landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on MCP Detector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global MCP Detector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MCP Detector and breaks down the forecast by Product Architecture, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global MCP Detector.

This report presents a comprehensive overview, market shares, and growth opportunities of MCP Detector market by product type, application, key manufacturers and key regions and countries.

Segmentation by Product Architecture:

Bare Microchannel Plate

MCP Assembly

MCP-PMT

MCP Detector System

Segmentation by Readout Mode:

- Metal Anode Readout
- Phosphor Screen Readout
- Delay-line Readout
- Multi-anode / Segmented Readout

Segmentation by Detected Signal:

- Charged Particle Detection
- VUV / UV / Soft X-ray Detection
- Photon Detection via Photocathode
- Neutron-sensitive Detection

Segmentation by Application:

- Analytical Instruments
- Semiconductor Inspection & Metrology
- High-energy, Nuclear & Space Science
- Industrial Imaging & NDT
- Medical & Life Science Timing
- Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hamamatsu Photonics K.K.

Exosens

Photek Ltd.

Incom, Inc.

LLC VTC BASPIK

Surface Concept GmbH

RoentDek Handels GmbH

North Night Vision Technology Co., Ltd.

Tectra GmbH

Quantar Technology Inc.

McPherson Inc.

Torr Scientific Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global MCP Detector market?

What factors are driving MCP Detector market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do MCP Detector market opportunities vary by end market size?

How does MCP Detector break out by Product Architecture, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global MCP Detector Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for MCP Detector by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for MCP Detector by Country/Region, 2021, 2025 & 2032
- 2.2 MCP Detector Segment by Product Architecture
 - 2.2.1 Bare Microchannel Plate
 - 2.2.2 MCP Assembly
 - 2.2.3 MCP-PMT
 - 2.2.4 MCP Detector System
 - 2.2.5 MCP Detector Sales by Product Architecture
 - 2.2.5.1 Global MCP Detector Sales Market Share by Product Architecture (2021-2026)
 - 2.2.5.2 Global MCP Detector Revenue and Market Share by Product Architecture (2021-2026)
 - 2.2.5.3 Global MCP Detector Sale Price by Product Architecture (2021-2026)
- 2.3 MCP Detector Segment by Readout Mode
 - 2.3.1 Metal Anode Readout
 - 2.3.2 Phosphor Screen Readout
 - 2.3.3 Delay-line Readout
 - 2.3.4 Multi-anode / Segmented Readout
 - 2.3.5 MCP Detector Sales by Readout Mode
 - 2.3.5.1 Global MCP Detector Sales Market Share by Readout Mode (2021-2026)

2.3.5.2 Global MCP Detector Revenue and Market Share by Readout Mode (2021-2026)

2.3.5.3 Global MCP Detector Sale Price by Readout Mode (2021-2026)

2.4 MCP Detector Segment by Detected Signal

2.4.1 Charged Particle Detection

2.4.2 VUV / UV / Soft X-ray Detection

2.4.3 Photon Detection via Photocathode

2.4.4 Neutron-sensitive Detection

2.4.5 MCP Detector Sales by Detected Signal

2.4.5.1 Global MCP Detector Sales Market Share by Detected Signal (2021-2026)

2.4.5.2 Global MCP Detector Revenue and Market Share by Detected Signal (2021-2026)

2.4.5.3 Global MCP Detector Sale Price by Detected Signal (2021-2026)

2.5 MCP Detector Segment by Application

2.5.1 Analytical Instruments

2.5.2 Semiconductor Inspection & Metrology

2.5.3 High-energy, Nuclear & Space Science

2.5.4 Industrial Imaging & NDT

2.5.5 Medical & Life Science Timing

2.5.6 Other

2.5.7 MCP Detector Sales by Application

2.5.7.1 Global MCP Detector Sale Market Share by Application (2021-2026)

2.5.7.2 Global MCP Detector Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global MCP Detector Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global MCP Detector Breakdown Data by Company

3.1.1 Global MCP Detector Annual Sales by Company (2021-2026)

3.1.2 Global MCP Detector Sales Market Share by Company (2021-2026)

3.2 Global MCP Detector Annual Revenue by Company (2021-2026)

3.2.1 Global MCP Detector Revenue by Company (2021-2026)

3.2.2 Global MCP Detector Revenue Market Share by Company (2021-2026)

3.3 Global MCP Detector Sale Price by Company

3.4 Key Manufacturers MCP Detector Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers MCP Detector Product Location Distribution

3.4.2 Players MCP Detector Products Offered

3.5 Market Concentration Rate Analysis

- 3.5.1 Competition Landscape Analysis
- 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MCP DETECTOR BY GEOGRAPHIC REGION

- 4.1 World Historic MCP Detector Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global MCP Detector Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global MCP Detector Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic MCP Detector Market Size by Country/Region (2021-2026)
 - 4.2.1 Global MCP Detector Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global MCP Detector Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas MCP Detector Sales Growth
- 4.4 APAC MCP Detector Sales Growth
- 4.5 Europe MCP Detector Sales Growth
- 4.6 Middle East & Africa MCP Detector Sales Growth

5 AMERICAS

- 5.1 Americas MCP Detector Sales by Country
 - 5.1.1 Americas MCP Detector Sales by Country (2021-2026)
 - 5.1.2 Americas MCP Detector Revenue by Country (2021-2026)
- 5.2 Americas MCP Detector Sales by Product Architecture (2021-2026)
- 5.3 Americas MCP Detector Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC MCP Detector Sales by Region
 - 6.1.1 APAC MCP Detector Sales by Region (2021-2026)
 - 6.1.2 APAC MCP Detector Revenue by Region (2021-2026)
- 6.2 APAC MCP Detector Sales by Product Architecture (2021-2026)
- 6.3 APAC MCP Detector Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan

- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe MCP Detector by Country
 - 7.1.1 Europe MCP Detector Sales by Country (2021-2026)
 - 7.1.2 Europe MCP Detector Revenue by Country (2021-2026)
- 7.2 Europe MCP Detector Sales by Product Architecture (2021-2026)
- 7.3 Europe MCP Detector Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa MCP Detector by Country
 - 8.1.1 Middle East & Africa MCP Detector Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa MCP Detector Revenue by Country (2021-2026)
- 8.2 Middle East & Africa MCP Detector Sales by Product Architecture (2021-2026)
- 8.3 Middle East & Africa MCP Detector Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of MCP Detector
- 10.3 Manufacturing Process Analysis of MCP Detector
- 10.4 Industry Chain Structure of MCP Detector

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 MCP Detector Distributors
- 11.3 MCP Detector Customer

12 WORLD FORECAST REVIEW FOR MCP DETECTOR BY GEOGRAPHIC REGION

- 12.1 Global MCP Detector Market Size Forecast by Region
 - 12.1.1 Global MCP Detector Forecast by Region (2027-2032)
 - 12.1.2 Global MCP Detector Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global MCP Detector Forecast by Product Architecture (2027-2032)
- 12.7 Global MCP Detector Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Hamamatsu Photonics K.K.
 - 13.1.1 Hamamatsu Photonics K.K. Company Information
 - 13.1.2 Hamamatsu Photonics K.K. MCP Detector Product Portfolios and Specifications
 - 13.1.3 Hamamatsu Photonics K.K. MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Hamamatsu Photonics K.K. Main Business Overview
 - 13.1.5 Hamamatsu Photonics K.K. Latest Developments
- 13.2 Exosens
 - 13.2.1 Exosens Company Information
 - 13.2.2 Exosens MCP Detector Product Portfolios and Specifications
 - 13.2.3 Exosens MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 Exosens Main Business Overview
- 13.2.5 Exosens Latest Developments
- 13.3 Photek Ltd.
 - 13.3.1 Photek Ltd. Company Information
 - 13.3.2 Photek Ltd. MCP Detector Product Portfolios and Specifications
 - 13.3.3 Photek Ltd. MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Photek Ltd. Main Business Overview
 - 13.3.5 Photek Ltd. Latest Developments
- 13.4 Incom, Inc.
 - 13.4.1 Incom, Inc. Company Information
 - 13.4.2 Incom, Inc. MCP Detector Product Portfolios and Specifications
 - 13.4.3 Incom, Inc. MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Incom, Inc. Main Business Overview
 - 13.4.5 Incom, Inc. Latest Developments
- 13.5 LLC VTC BASPIK
 - 13.5.1 LLC VTC BASPIK Company Information
 - 13.5.2 LLC VTC BASPIK MCP Detector Product Portfolios and Specifications
 - 13.5.3 LLC VTC BASPIK MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 LLC VTC BASPIK Main Business Overview
 - 13.5.5 LLC VTC BASPIK Latest Developments
- 13.6 Surface Concept GmbH
 - 13.6.1 Surface Concept GmbH Company Information
 - 13.6.2 Surface Concept GmbH MCP Detector Product Portfolios and Specifications
 - 13.6.3 Surface Concept GmbH MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Surface Concept GmbH Main Business Overview
 - 13.6.5 Surface Concept GmbH Latest Developments
- 13.7 RoentDek Handels GmbH
 - 13.7.1 RoentDek Handels GmbH Company Information
 - 13.7.2 RoentDek Handels GmbH MCP Detector Product Portfolios and Specifications
 - 13.7.3 RoentDek Handels GmbH MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 RoentDek Handels GmbH Main Business Overview
 - 13.7.5 RoentDek Handels GmbH Latest Developments
- 13.8 North Night Vision Technology Co., Ltd.
 - 13.8.1 North Night Vision Technology Co., Ltd. Company Information

13.8.2 North Night Vision Technology Co., Ltd. MCP Detector Product Portfolios and Specifications

13.8.3 North Night Vision Technology Co., Ltd. MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 North Night Vision Technology Co., Ltd. Main Business Overview

13.8.5 North Night Vision Technology Co., Ltd. Latest Developments

13.9 Tectra GmbH

13.9.1 Tectra GmbH Company Information

13.9.2 Tectra GmbH MCP Detector Product Portfolios and Specifications

13.9.3 Tectra GmbH MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Tectra GmbH Main Business Overview

13.9.5 Tectra GmbH Latest Developments

13.10 Quantar Technology Inc.

13.10.1 Quantar Technology Inc. Company Information

13.10.2 Quantar Technology Inc. MCP Detector Product Portfolios and Specifications

13.10.3 Quantar Technology Inc. MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Quantar Technology Inc. Main Business Overview

13.10.5 Quantar Technology Inc. Latest Developments

13.11 McPherson Inc.

13.11.1 McPherson Inc. Company Information

13.11.2 McPherson Inc. MCP Detector Product Portfolios and Specifications

13.11.3 McPherson Inc. MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 McPherson Inc. Main Business Overview

13.11.5 McPherson Inc. Latest Developments

13.12 Torr Scientific Ltd

13.12.1 Torr Scientific Ltd Company Information

13.12.2 Torr Scientific Ltd MCP Detector Product Portfolios and Specifications

13.12.3 Torr Scientific Ltd MCP Detector Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Torr Scientific Ltd Main Business Overview

13.12.5 Torr Scientific Ltd Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. MCP Detector Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. MCP Detector Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Bare Microchannel Plate
- Table 4. Major Players of MCP Assembly
- Table 5. Major Players of MCP-PMT
- Table 6. Major Players of MCP Detector System
- Table 7. Global MCP Detector Sales by Product Architecture (2021-2026) & (Units)
- Table 8. Global MCP Detector Sales Market Share by Product Architecture (2021-2026)
- Table 9. Global MCP Detector Revenue by Product Architecture (2021-2026) & (\$ million)
- Table 10. Global MCP Detector Revenue Market Share by Product Architecture (2021-2026)
- Table 11. Global MCP Detector Sale Price by Product Architecture (2021-2026) & (K US\$/Unit)
- Table 12. Major Players of Metal Anode Readout
- Table 13. Major Players of Phosphor Screen Readout
- Table 14. Major Players of Delay-line Readout
- Table 15. Major Players of Multi-anode / Segmented Readout
- Table 16. Global MCP Detector Sales by Readout Mode (2021-2026) & (Units)
- Table 17. Global MCP Detector Sales Market Share by Readout Mode (2021-2026)
- Table 18. Global MCP Detector Revenue by Readout Mode (2021-2026) & (\$ million)
- Table 19. Global MCP Detector Revenue Market Share by Readout Mode (2021-2026)
- Table 20. Global MCP Detector Sale Price by Readout Mode (2021-2026) & (K US\$/Unit)
- Table 21. Major Players of Charged Particle Detection
- Table 22. Major Players of VUV / UV / Soft X-ray Detection
- Table 23. Major Players of Photon Detection via Photocathode
- Table 24. Major Players of Neutron-sensitive Detection
- Table 25. Global MCP Detector Sales by Detected Signal (2021-2026) & (Units)
- Table 26. Global MCP Detector Sales Market Share by Detected Signal (2021-2026)
- Table 27. Global MCP Detector Revenue by Detected Signal (2021-2026) & (\$ million)
- Table 28. Global MCP Detector Revenue Market Share by Detected Signal (2021-2026)
- Table 29. Global MCP Detector Sale Price by Detected Signal (2021-2026) & (K

US\$/Unit)

Table 30. Global MCP Detector Sale by Application (2021-2026) & (Units)

Table 31. Global MCP Detector Sale Market Share by Application (2021-2026)

Table 32. Global MCP Detector Revenue by Application (2021-2026) & (\$ million)

Table 33. Global MCP Detector Revenue Market Share by Application (2021-2026)

Table 34. Global MCP Detector Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 35. Global MCP Detector Sales by Company (2021-2026) & (Units)

Table 36. Global MCP Detector Sales Market Share by Company (2021-2026)

Table 37. Global MCP Detector Revenue by Company (2021-2026) & (\$ millions)

Table 38. Global MCP Detector Revenue Market Share by Company (2021-2026)

Table 39. Global MCP Detector Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 40. Key Manufacturers MCP Detector Producing Area Distribution and Sales Area

Table 41. Players MCP Detector Products Offered

Table 42. MCP Detector Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 43. New Products and Potential Entrants

Table 44. Market M&A Activity & Strategy

Table 45. Global MCP Detector Sales by Geographic Region (2021-2026) & (Units)

Table 46. Global MCP Detector Sales Market Share Geographic Region (2021-2026)

Table 47. Global MCP Detector Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 48. Global MCP Detector Revenue Market Share by Geographic Region (2021-2026)

Table 49. Global MCP Detector Sales by Country/Region (2021-2026) & (Units)

Table 50. Global MCP Detector Sales Market Share by Country/Region (2021-2026)

Table 51. Global MCP Detector Revenue by Country/Region (2021-2026) & (\$ millions)

Table 52. Global MCP Detector Revenue Market Share by Country/Region (2021-2026)

Table 53. Americas MCP Detector Sales by Country (2021-2026) & (Units)

Table 54. Americas MCP Detector Sales Market Share by Country (2021-2026)

Table 55. Americas MCP Detector Revenue by Country (2021-2026) & (\$ millions)

Table 56. Americas MCP Detector Sales by Product Architecture (2021-2026) & (Units)

Table 57. Americas MCP Detector Sales by Application (2021-2026) & (Units)

Table 58. APAC MCP Detector Sales by Region (2021-2026) & (Units)

Table 59. APAC MCP Detector Sales Market Share by Region (2021-2026)

Table 60. APAC MCP Detector Revenue by Region (2021-2026) & (\$ millions)

Table 61. APAC MCP Detector Sales by Product Architecture (2021-2026) & (Units)

Table 62. APAC MCP Detector Sales by Application (2021-2026) & (Units)

Table 63. Europe MCP Detector Sales by Country (2021-2026) & (Units)

Table 64. Europe MCP Detector Revenue by Country (2021-2026) & (\$ millions)

Table 65. Europe MCP Detector Sales by Product Architecture (2021-2026) & (Units)

Table 66. Europe MCP Detector Sales by Application (2021-2026) & (Units)
Table 67. Middle East & Africa MCP Detector Sales by Country (2021-2026) & (Units)
Table 68. Middle East & Africa MCP Detector Revenue Market Share by Country (2021-2026)
Table 69. Middle East & Africa MCP Detector Sales by Product Architecture (2021-2026) & (Units)
Table 70. Middle East & Africa MCP Detector Sales by Application (2021-2026) & (Units)
Table 71. Key Market Drivers & Growth Opportunities of MCP Detector
Table 72. Key Market Challenges & Risks of MCP Detector
Table 73. Key Industry Trends of MCP Detector
Table 74. MCP Detector Raw Material
Table 75. Key Suppliers of Raw Materials
Table 76. MCP Detector Distributors List
Table 77. MCP Detector Customer List
Table 78. Global MCP Detector Sales Forecast by Region (2027-2032) & (Units)
Table 79. Global MCP Detector Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Americas MCP Detector Sales Forecast by Country (2027-2032) & (Units)
Table 81. Americas MCP Detector Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. APAC MCP Detector Sales Forecast by Region (2027-2032) & (Units)
Table 83. APAC MCP Detector Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 84. Europe MCP Detector Sales Forecast by Country (2027-2032) & (Units)
Table 85. Europe MCP Detector Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 86. Middle East & Africa MCP Detector Sales Forecast by Country (2027-2032) & (Units)
Table 87. Middle East & Africa MCP Detector Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 88. Global MCP Detector Sales Forecast by Product Architecture (2027-2032) & (Units)
Table 89. Global MCP Detector Revenue Forecast by Product Architecture (2027-2032) & (\$ millions)
Table 90. Global MCP Detector Sales Forecast by Application (2027-2032) & (Units)
Table 91. Global MCP Detector Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 92. Hamamatsu Photonics K.K. Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors

Table 93. Hamamatsu Photonics K.K. MCP Detector Product Portfolios and Specifications
Table 94. Hamamatsu Photonics K.K. MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 95. Hamamatsu Photonics K.K. Main Business
Table 96. Hamamatsu Photonics K.K. Latest Developments
Table 97. Exosens Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors
Table 98. Exosens MCP Detector Product Portfolios and Specifications
Table 99. Exosens MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 100. Exosens Main Business
Table 101. Exosens Latest Developments
Table 102. Photek Ltd. Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors
Table 103. Photek Ltd. MCP Detector Product Portfolios and Specifications
Table 104. Photek Ltd. MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 105. Photek Ltd. Main Business
Table 106. Photek Ltd. Latest Developments
Table 107. Incom, Inc. Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors
Table 108. Incom, Inc. MCP Detector Product Portfolios and Specifications
Table 109. Incom, Inc. MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 110. Incom, Inc. Main Business
Table 111. Incom, Inc. Latest Developments
Table 112. LLC VTC BASPIK Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors
Table 113. LLC VTC BASPIK MCP Detector Product Portfolios and Specifications
Table 114. LLC VTC BASPIK MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 115. LLC VTC BASPIK Main Business
Table 116. LLC VTC BASPIK Latest Developments
Table 117. Surface Concept GmbH Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors
Table 118. Surface Concept GmbH MCP Detector Product Portfolios and Specifications
Table 119. Surface Concept GmbH MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 120. Surface Concept GmbH Main Business

Table 121. Surface Concept GmbH Latest Developments

Table 122. RoentDek Handels GmbH Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors

Table 123. RoentDek Handels GmbH MCP Detector Product Portfolios and Specifications

Table 124. RoentDek Handels GmbH MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 125. RoentDek Handels GmbH Main Business

Table 126. RoentDek Handels GmbH Latest Developments

Table 127. North Night Vision Technology Co., Ltd. Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors

Table 128. North Night Vision Technology Co., Ltd. MCP Detector Product Portfolios and Specifications

Table 129. North Night Vision Technology Co., Ltd. MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 130. North Night Vision Technology Co., Ltd. Main Business

Table 131. North Night Vision Technology Co., Ltd. Latest Developments

Table 132. Tectra GmbH Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors

Table 133. Tectra GmbH MCP Detector Product Portfolios and Specifications

Table 134. Tectra GmbH MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 135. Tectra GmbH Main Business

Table 136. Tectra GmbH Latest Developments

Table 137. Quantar Technology Inc. Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors

Table 138. Quantar Technology Inc. MCP Detector Product Portfolios and Specifications

Table 139. Quantar Technology Inc. MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 140. Quantar Technology Inc. Main Business

Table 141. Quantar Technology Inc. Latest Developments

Table 142. McPherson Inc. Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors

Table 143. McPherson Inc. MCP Detector Product Portfolios and Specifications

Table 144. McPherson Inc. MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 145. McPherson Inc. Main Business

Table 146. McPherson Inc. Latest Developments

Table 147. Torr Scientific Ltd Basic Information, MCP Detector Manufacturing Base, Sales Area and Its Competitors

Table 148. Torr Scientific Ltd MCP Detector Product Portfolios and Specifications

Table 149. Torr Scientific Ltd MCP Detector Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 150. Torr Scientific Ltd Main Business

Table 151. Torr Scientific Ltd Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of MCP Detector
- Figure 2. MCP Detector Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global MCP Detector Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global MCP Detector Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. MCP Detector Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. MCP Detector Sales Market Share by Country/Region (2025)
- Figure 10. MCP Detector Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Bare Microchannel Plate
- Figure 12. Product Picture of MCP Assembly
- Figure 13. Product Picture of MCP-PMT
- Figure 14. Product Picture of MCP Detector System
- Figure 15. Global MCP Detector Sales Market Share by Product Architecture in 2026
- Figure 16. Global MCP Detector Revenue Market Share by Product Architecture (2021-2026)
- Figure 17. Product Picture of Metal Anode Readout
- Figure 18. Product Picture of Phosphor Screen Readout
- Figure 19. Product Picture of Delay-line Readout
- Figure 20. Product Picture of Multi-anode / Segmented Readout
- Figure 21. Global MCP Detector Sales Market Share by Readout Mode in 2026
- Figure 22. Global MCP Detector Revenue Market Share by Readout Mode (2021-2026)
- Figure 23. Product Picture of Charged Particle Detection
- Figure 24. Product Picture of VUV / UV / Soft X-ray Detection
- Figure 25. Product Picture of Photon Detection via Photocathode
- Figure 26. Product Picture of Neutron-sensitive Detection
- Figure 27. Global MCP Detector Sales Market Share by Detected Signal in 2026
- Figure 28. Global MCP Detector Revenue Market Share by Detected Signal (2021-2026)
- Figure 29. MCP Detector Consumed in Analytical Instruments
- Figure 30. Global MCP Detector Market: Analytical Instruments (2021-2026) & (Units)
- Figure 31. MCP Detector Consumed in Semiconductor Inspection & Metrology
- Figure 32. Global MCP Detector Market: Semiconductor Inspection & Metrology (2021-2026) & (Units)

Figure 33. MCP Detector Consumed in High-energy, Nuclear & Space Science

Figure 34. Global MCP Detector Market: High-energy, Nuclear & Space Science (2021-2026) & (Units)

Figure 35. MCP Detector Consumed in Industrial Imaging & NDT

Figure 36. Global MCP Detector Market: Industrial Imaging & NDT (2021-2026) & (Units)

Figure 37. MCP Detector Consumed in Medical & Life Science Timing

Figure 38. Global MCP Detector Market: Medical & Life Science Timing (2021-2026) & (Units)

Figure 39. MCP Detector Consumed in Other

Figure 40. Global MCP Detector Market: Other (2021-2026) & (Units)

Figure 41. Global MCP Detector Sale Market Share by Application (2025)

Figure 42. Global MCP Detector Revenue Market Share by Application in 2025

Figure 43. MCP Detector Sales by Company in 2025 (Units)

Figure 44. Global MCP Detector Sales Market Share by Company in 2025

Figure 45. MCP Detector Revenue by Company in 2025 (\$ millions)

Figure 46. Global MCP Detector Revenue Market Share by Company in 2025

Figure 47. Global MCP Detector Sales Market Share by Geographic Region (2021-2026)

Figure 48. Global MCP Detector Revenue Market Share by Geographic Region in 2025

Figure 49. Americas MCP Detector Sales 2021-2026 (Units)

Figure 50. Americas MCP Detector Revenue 2021-2026 (\$ millions)

Figure 51. APAC MCP Detector Sales 2021-2026 (Units)

Figure 52. APAC MCP Detector Revenue 2021-2026 (\$ millions)

Figure 53. Europe MCP Detector Sales 2021-2026 (Units)

Figure 54. Europe MCP Detector Revenue 2021-2026 (\$ millions)

Figure 55. Middle East & Africa MCP Detector Sales 2021-2026 (Units)

Figure 56. Middle East & Africa MCP Detector Revenue 2021-2026 (\$ millions)

Figure 57. Americas MCP Detector Sales Market Share by Country in 2025

Figure 58. Americas MCP Detector Revenue Market Share by Country (2021-2026)

Figure 59. Americas MCP Detector Sales Market Share by Product Architecture (2021-2026)

Figure 60. Americas MCP Detector Sales Market Share by Application (2021-2026)

Figure 61. United States MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 62. Canada MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 63. Mexico MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 64. Brazil MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 65. APAC MCP Detector Sales Market Share by Region in 2025

Figure 66. APAC MCP Detector Revenue Market Share by Region (2021-2026)

Figure 67. APAC MCP Detector Sales Market Share by Product Architecture (2021-2026)

Figure 68. APAC MCP Detector Sales Market Share by Application (2021-2026)

Figure 69. China MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 70. Japan MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 71. South Korea MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 72. Southeast Asia MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 73. India MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 74. Australia MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 75. China Taiwan MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 76. Europe MCP Detector Sales Market Share by Country in 2025

Figure 77. Europe MCP Detector Revenue Market Share by Country (2021-2026)

Figure 78. Europe MCP Detector Sales Market Share by Product Architecture (2021-2026)

Figure 79. Europe MCP Detector Sales Market Share by Application (2021-2026)

Figure 80. Germany MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 81. France MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 82. UK MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 83. Italy MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 84. Russia MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 85. Middle East & Africa MCP Detector Sales Market Share by Country (2021-2026)

Figure 86. Middle East & Africa MCP Detector Sales Market Share by Product Architecture (2021-2026)

Figure 87. Middle East & Africa MCP Detector Sales Market Share by Application (2021-2026)

Figure 88. Egypt MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 89. South Africa MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 90. Israel MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 91. Turkey MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 92. GCC Countries MCP Detector Revenue Growth 2021-2026 (\$ millions)

Figure 93. Manufacturing Cost Structure Analysis of MCP Detector in 2026

Figure 94. Manufacturing Process Analysis of MCP Detector

Figure 95. Industry Chain Structure of MCP Detector

Figure 96. Channels of Distribution

Figure 97. Global MCP Detector Sales Market Forecast by Region (2027-2032)

Figure 98. Global MCP Detector Revenue Market Share Forecast by Region (2027-2032)

Figure 99. Global MCP Detector Sales Market Share Forecast by Product Architecture

(2027-2032)

Figure 100. Global MCP Detector Revenue Market Share Forecast by Product Architecture (2027-2032)

Figure 101. Global MCP Detector Sales Market Share Forecast by Application (2027-2032)

Figure 102. Global MCP Detector Revenue Market Share Forecast by Application (2027-2032)

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