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Global Panel Mount Paperless Chart Recorder Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G1212E5CB2C7EN.html
Date: August 2026
Pages: 130
Price: US$ 4,480.00 (Single User License)
ID: G1212E5CB2C7EN

Abstracts

The global Panel Mount Paperless Chart Recorder market size is expected to reach $ 925 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

A panel mount paperless chart recorder is an industrial automation device used for real-time acquisition, display, and storage of various process parameters such as temperature, pressure, and flow rate. It replaces the traditional paper-based recording method with digital technology. Equipped with large-capacity memory, multiple input/output interfaces, and graphical display functions, this device can conveniently connect with computers or other control systems. It is widely applied in fields like energy, chemical engineering, pharmaceuticals, and food processing, providing users with efficient and precise process monitoring solutions. In 2025, global production reached 267.8 thousand units, with an average selling price of USD 2,363 per unit.

Panel mount paperless chart recorders are one of the most typical and widely used product forms in the paperless recorder market. They are usually embedded in control cabinets, instrument panels, equipment operation panels or the front end of process control systems, and are used for continuous acquisition, graphical display, alarm management, storage and traceability of industrial process parameters such as temperature, pressure, flow, level, humidity, voltage, current, thermocouple signals, RTD signals and digital signals. Compared with portable recorders or desktop data acquisition devices, panel mount products place greater emphasis on long-term online operation, on-site visualization, human-machine interaction, anti-interference capability and integration with control systems. They are important basic instruments in process industries and equipment integration applications.

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In terms of product structure, panel mount paperless chart recorders are mainly composed of signal input modules, data acquisition and processing units, LCD displays, touchscreen or keypad-based HMIs, local storage modules, communication interfaces, power modules and embedded software. By number of input channels, the products can be divided into 1?8 channel, 9?16 channel, 17?48 channel and over 48 channel models. By input signal type, they can be divided into universal analog input models, mixed analog and digital input models, network and protocol-based models, and dedicated temperature and humidity recording models. By local HMI type, they can be divided into touchscreen graphic recorders and keypad-operated graphic recorders. Among them, touchscreen graphic recorders have become the mainstream in the mid- to high-end market, supporting trend curve display, alarm records, historical data query, batch records, report export and remote access.

From the downstream application perspective, panel mount paperless chart recorders are widely used in chemicals, oil and gas, power generation, pharmaceuticals, food and beverages, water treatment, heat treatment, metallurgy, environmental monitoring, laboratory equipment and industrial equipment integration. Process industry customers usually focus on multi-channel acquisition, long-term stability, alarm management, Ethernet communication and industrial protocol connectivity. Pharmaceutical and food and beverage customers place greater emphasis on data integrity, audit trails, electronic records, batch management and compliance validation. Equipment manufacturers pay more attention to product size, cutout dimensions, installation convenience, cost control and compatibility with PLC, DCS or host computer systems.

From the supply chain perspective, the upstream segment of panel mount paperless chart recorders mainly includes ADC chips, microprocessors, memory, LCD panels, touch panels, communication modules, sensor interface modules, relays, power modules, PCBs, mechanical components, embedded software and data management software. Midstream manufacturers are responsible for instrument design, signal conditioning, HMI interface development, data acquisition algorithms, communication protocol adaptation, enclosure design, assembly testing, calibration and reliability verification. Downstream customers mainly include industrial end users, automation system integrators, engineering companies, equipment manufacturers and instrument distributors. Since these products are installed in industrial field environments for long-term operation, suppliers need strong capabilities in electromagnetic interference resistance, temperature and humidity adaptability, data security protection and field after-sales service.

In terms of manufacturing, panel mount paperless chart recorders are industrial

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electronic instrumentation products with a relatively high degree of standardization. The production process mainly includes SMT mounting, module assembly, final assembly, signal calibration, display and touch testing, communication testing, burn-in testing and final inspection. For standardized low- and mid-channel products, the annual effective capacity of a mature production line can usually reach 10,000 to 50,000 units. For high-end multi-channel, compliance validation and networked data management models, annual effective capacity per line is usually lower than that of standard models due to greater configuration diversity and longer calibration and testing cycles. Industry capacity utilization is mainly affected by industrial project investment cycles, equipment integration orders, replacement demand and channel inventory fluctuations.

In terms of competitive landscape, the global panel mount paperless chart recorder market is mainly served by companies from Europe, the United States, Japan and Taiwan, China. Representative manufacturers include Honeywell, Siemens, ABB, Endress+Hauser Group, Yokogawa Electric, JUMO GmbH & Co. KG, Azbil Corporation, Chino Corporation, Eurotherm, OMEGA Engineering, BrainChild Electronic and Monarch Instrument. Among them, Yokogawa Electric, Honeywell, ABB, Endress+Hauser Group, Chino Corporation and Azbil Corporation have strong influence in mid- to high-end process recording, industrial field applications and multi-channel data management. JUMO, Eurotherm, OMEGA Engineering, BrainChild Electronic and Monarch Instrument have certain competitiveness in temperature control recording, equipment integration, laboratory recording and regional markets. Siemens is mainly represented by its installed customer base and historical product foundation in this field.

In terms of profitability, the gross margin of panel mount paperless chart recorders is generally higher than that of ordinary low-end display instruments, but lower than that of large automation control systems and high-end analytical instruments. Low- and mid-end standard models face relatively sufficient competition, with gross margins generally around 25%?35%. Mid- to high-end touchscreen, multi-channel, networked, compliance validation and data management models have higher added value, with gross margins usually reaching around 35%?45%. Companies with proprietary hardware platforms, embedded software, communication protocols, calibration capabilities and industry certification experience tend to have stronger profitability and higher customer stickiness.

Overall, panel mount paperless chart recorders are evolving from simple field recording devices into process data visualization, electronic traceability and industrial data management terminals. Future growth will mainly come from the replacement of traditional paper chart recorders, digital transformation of industrial sites, increasing

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demand for embedded recording functions from equipment manufacturers, rising compliance requirements in pharmaceutical and food industries, and growing demand for continuous process monitoring in energy, environmental protection, water treatment and heat treatment industries. With the development of Ethernet communication, industrial protocols, remote monitoring, data integrity and industrial IoT, these products will continue to evolve toward touchscreen operation, networking, miniaturization, compliance and intelligent data management.

This report studies the global Panel Mount Paperless Chart Recorder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Panel Mount Paperless Chart Recorder and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Panel Mount Paperless Chart Recorder that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Panel Mount Paperless Chart Recorder total production and demand, 2021-2032, (K Units)
Global Panel Mount Paperless Chart Recorder total production value, 2021-2032, (USD Million)
Global Panel Mount Paperless Chart Recorder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Panel Mount Paperless Chart Recorder consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Panel Mount Paperless Chart Recorder domestic production, consumption, key domestic manufacturers and share
Global Panel Mount Paperless Chart Recorder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Panel Mount Paperless Chart Recorder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Panel Mount Paperless Chart Recorder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Panel Mount Paperless Chart Recorder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key

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companies covered as a part of this study include Honeywell, Siemens, ABB, Endress+Hauser Group, Yokogawa Electric, JUMO GmbH & Co. KG, Azbil Corporation, Chino Corporation, Eurotherm, OMEGA Engineering, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Panel Mount Paperless Chart Recorder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Panel Mount Paperless Chart Recorder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Panel Mount Paperless Chart Recorder Market, Segmentation by Type:

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Touch Screen Paperless Recorder

Button Operated Paperless Recorder

Global Panel Mount Paperless Chart Recorder Market, Segmentation by Number of Input Channels:

1?8 Input Channels

9?16 Input Channels

17?48 Input Channels

Over 48 Input Channels

Global Panel Mount Paperless Chart Recorder Market, Segmentation by Sales Channel:

Direct Sales

Distribution

Global Panel Mount Paperless Chart Recorder Market, Segmentation by Application:

Industrial Automation and Process Control

Environmental Testing and Energy Management

Laboratory Research and Testing

Others

Companies Profiled:

Honeywell

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Siemens

ABB

Endress+Hauser Group

Yokogawa Electric

JUMO GmbH & Co. KG

Azbil Corporation

Chino Corporation

Eurotherm

OMEGA Engineering

BrainChild Electronic

Monarch Instrument

Key Questions Answered:
1. How big is the global Panel Mount Paperless Chart Recorder market?
2. What is the demand of the global Panel Mount Paperless Chart Recorder market?
3. What is the year over year growth of the global Panel Mount Paperless Chart Recorder market?
4. What is the production and production value of the global Panel Mount Paperless Chart Recorder market?
5. Who are the key producers in the global Panel Mount Paperless Chart Recorder market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Panel Mount Paperless Chart Recorder Introduction
1.2 World Panel Mount Paperless Chart Recorder Supply & Forecast
  1.2.1 World Panel Mount Paperless Chart Recorder Production Value (2021 & 2025 & 2032)
  1.2.2 World Panel Mount Paperless Chart Recorder Production (2021-2032)
  1.2.3 World Panel Mount Paperless Chart Recorder Pricing Trends (2021-2032)
1.3 World Panel Mount Paperless Chart Recorder Production by Region (Based on Production Site)
  1.3.1 World Panel Mount Paperless Chart Recorder Production Value by Region (2021-2032)
  1.3.2 World Panel Mount Paperless Chart Recorder Production by Region (2021-2032)
  1.3.3 World Panel Mount Paperless Chart Recorder Average Price by Region (2021-2032)
  1.3.4 North America Panel Mount Paperless Chart Recorder Production (2021-2032)
  1.3.5 Europe Panel Mount Paperless Chart Recorder Production (2021-2032)
  1.3.6 China Panel Mount Paperless Chart Recorder Production (2021-2032)
  1.3.7 Japan Panel Mount Paperless Chart Recorder Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Panel Mount Paperless Chart Recorder Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Panel Mount Paperless Chart Recorder Major Market Trends

2 DEMAND SUMMARY

2.1 World Panel Mount Paperless Chart Recorder Demand (2021-2032)
2.2 World Panel Mount Paperless Chart Recorder Consumption by Region
  2.2.1 World Panel Mount Paperless Chart Recorder Consumption by Region (2021-2026)
  2.2.2 World Panel Mount Paperless Chart Recorder Consumption Forecast by Region (2027-2032)
2.3 United States Panel Mount Paperless Chart Recorder Consumption (2021-2032)
2.4 China Panel Mount Paperless Chart Recorder Consumption (2021-2032)
2.5 Europe Panel Mount Paperless Chart Recorder Consumption (2021-2032)
2.6 Japan Panel Mount Paperless Chart Recorder Consumption (2021-2032)
2.7 South Korea Panel Mount Paperless Chart Recorder Consumption (2021-2032)

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2.8 ASEAN Panel Mount Paperless Chart Recorder Consumption (2021-2032)
2.9 India Panel Mount Paperless Chart Recorder Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Panel Mount Paperless Chart Recorder Production Value by Manufacturer (2021-2026)
3.2 World Panel Mount Paperless Chart Recorder Production by Manufacturer (2021-2026)
3.3 World Panel Mount Paperless Chart Recorder Average Price by Manufacturer (2021-2026)
3.4 Panel Mount Paperless Chart Recorder Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Panel Mount Paperless Chart Recorder Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Panel Mount Paperless Chart Recorder in 2025
  3.5.3 Global Concentration Ratios (CR8) for Panel Mount Paperless Chart Recorder in 2025
3.6 Panel Mount Paperless Chart Recorder Market: Overall Company Footprint Analysis
  3.6.1 Panel Mount Paperless Chart Recorder Market: Region Footprint
  3.6.2 Panel Mount Paperless Chart Recorder Market: Company Product Type Footprint
  3.6.3 Panel Mount Paperless Chart Recorder Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Panel Mount Paperless Chart Recorder Production Value Comparison
  4.1.1 United States VS China: Panel Mount Paperless Chart Recorder Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Panel Mount Paperless Chart Recorder Production

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Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Panel Mount Paperless Chart Recorder Production Comparison
4.2.1 United States VS China: Panel Mount Paperless Chart Recorder Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Panel Mount Paperless Chart Recorder Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Panel Mount Paperless Chart Recorder Consumption Comparison
4.3.1 United States VS China: Panel Mount Paperless Chart Recorder Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Panel Mount Paperless Chart Recorder Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Panel Mount Paperless Chart Recorder Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Panel Mount Paperless Chart Recorder Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Panel Mount Paperless Chart Recorder Production Value (2021-2026)
4.4.3 United States Based Manufacturers Panel Mount Paperless Chart Recorder Production (2021-2026)
4.5 China Based Panel Mount Paperless Chart Recorder Manufacturers and Market Share
4.5.1 China Based Panel Mount Paperless Chart Recorder Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Panel Mount Paperless Chart Recorder Production Value (2021-2026)
4.5.3 China Based Manufacturers Panel Mount Paperless Chart Recorder Production (2021-2026)
4.6 Rest of World Based Panel Mount Paperless Chart Recorder Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Panel Mount Paperless Chart Recorder Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Panel Mount Paperless Chart Recorder Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Panel Mount Paperless Chart Recorder Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

+357 96 030922
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5.1 World Panel Mount Paperless Chart Recorder Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
  5.2.1 Touch Screen Paperless Recorder
  5.2.2 Button Operated Paperless Recorder
5.3 Market Segment by Type
  5.3.1 World Panel Mount Paperless Chart Recorder Production by Type (2021-2032)
  5.3.2 World Panel Mount Paperless Chart Recorder Production Value by Type (2021-2032)
  5.3.3 World Panel Mount Paperless Chart Recorder Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUMBER OF INPUT CHANNELS

6.1 World Panel Mount Paperless Chart Recorder Market Size Overview by Number of Input Channels: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Number of Input Channels
  6.2.1 1?8 Input Channels
  6.2.2 9?16 Input Channels
  6.2.3 17?48 Input Channels
  6.2.4 Over 48 Input Channels
6.3 Market Segment by Number of Input Channels
  6.3.1 World Panel Mount Paperless Chart Recorder Production by Number of Input Channels (2021-2032)
  6.3.2 World Panel Mount Paperless Chart Recorder Production Value by Number of Input Channels (2021-2032)
  6.3.3 World Panel Mount Paperless Chart Recorder Average Price by Number of Input Channels (2021-2032)

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World Panel Mount Paperless Chart Recorder Market Size Overview by Sales Channel: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Sales Channel
  7.2.1 Direct Sales
  7.2.2 Distribution
7.3 Market Segment by Sales Channel
  7.3.1 World Panel Mount Paperless Chart Recorder Production by Sales Channel

+357 96 030922
info@marketpublishers.com

(2021-2032)
7.3.2 World Panel Mount Paperless Chart Recorder Production Value by Sales Channel (2021-2032)
7.3.3 World Panel Mount Paperless Chart Recorder Average Price by Sales Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Panel Mount Paperless Chart Recorder Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Industrial Automation and Process Control
8.2.2 Environmental Testing and Energy Management
8.2.3 Laboratory Research and Testing
8.2.4 Others
8.3 Market Segment by Application
8.3.1 World Panel Mount Paperless Chart Recorder Production by Application (2021-2032)
8.3.2 World Panel Mount Paperless Chart Recorder Production Value by Application (2021-2032)
8.3.3 World Panel Mount Paperless Chart Recorder Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Honeywell
9.1.1 Honeywell Details
9.1.2 Honeywell Major Business
9.1.3 Honeywell Panel Mount Paperless Chart Recorder Product and Services
9.1.4 Honeywell Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Honeywell Recent Developments/Updates
9.1.6 Honeywell Competitive Strengths & Weaknesses
9.2 Siemens
9.2.1 Siemens Details
9.2.2 Siemens Major Business
9.2.3 Siemens Panel Mount Paperless Chart Recorder Product and Services
9.2.4 Siemens Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.2.5 Siemens Recent Developments/Updates
9.2.6 Siemens Competitive Strengths & Weaknesses
9.3 ABB
9.3.1 ABB Details
9.3.2 ABB Major Business
9.3.3 ABB Panel Mount Paperless Chart Recorder Product and Services
9.3.4 ABB Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 ABB Recent Developments/Updates
9.3.6 ABB Competitive Strengths & Weaknesses
9.4 Endress+Hauser Group
9.4.1 Endress+Hauser Group Details
9.4.2 Endress+Hauser Group Major Business
9.4.3 Endress+Hauser Group Panel Mount Paperless Chart Recorder Product and Services
9.4.4 Endress+Hauser Group Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Endress+Hauser Group Recent Developments/Updates
9.4.6 Endress+Hauser Group Competitive Strengths & Weaknesses
9.5 Yokogawa Electric
9.5.1 Yokogawa Electric Details
9.5.2 Yokogawa Electric Major Business
9.5.3 Yokogawa Electric Panel Mount Paperless Chart Recorder Product and Services
9.5.4 Yokogawa Electric Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Yokogawa Electric Recent Developments/Updates
9.5.6 Yokogawa Electric Competitive Strengths & Weaknesses
9.6 JUMO GmbH & Co. KG
9.6.1 JUMO GmbH & Co. KG Details
9.6.2 JUMO GmbH & Co. KG Major Business
9.6.3 JUMO GmbH & Co. KG Panel Mount Paperless Chart Recorder Product and Services
9.6.4 JUMO GmbH & Co. KG Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 JUMO GmbH & Co. KG Recent Developments/Updates
9.6.6 JUMO GmbH & Co. KG Competitive Strengths & Weaknesses
9.7 Azbil Corporation
9.7.1 Azbil Corporation Details
9.7.2 Azbil Corporation Major Business

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info@marketpublishers.com

9.7.3 Azbil Corporation Panel Mount Paperless Chart Recorder Product and Services
9.7.4 Azbil Corporation Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Azbil Corporation Recent Developments/Updates
9.7.6 Azbil Corporation Competitive Strengths & Weaknesses
9.8 Chino Corporation
9.8.1 Chino Corporation Details
9.8.2 Chino Corporation Major Business
9.8.3 Chino Corporation Panel Mount Paperless Chart Recorder Product and Services
9.8.4 Chino Corporation Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 Chino Corporation Recent Developments/Updates
9.8.6 Chino Corporation Competitive Strengths & Weaknesses
9.9 Eurotherm
9.9.1 Eurotherm Details
9.9.2 Eurotherm Major Business
9.9.3 Eurotherm Panel Mount Paperless Chart Recorder Product and Services
9.9.4 Eurotherm Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Eurotherm Recent Developments/Updates
9.9.6 Eurotherm Competitive Strengths & Weaknesses
9.10 OMEGA Engineering
9.10.1 OMEGA Engineering Details
9.10.2 OMEGA Engineering Major Business
9.10.3 OMEGA Engineering Panel Mount Paperless Chart Recorder Product and Services
9.10.4 OMEGA Engineering Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 OMEGA Engineering Recent Developments/Updates
9.10.6 OMEGA Engineering Competitive Strengths & Weaknesses
9.11 BrainChild Electronic
9.11.1 BrainChild Electronic Details
9.11.2 BrainChild Electronic Major Business
9.11.3 BrainChild Electronic Panel Mount Paperless Chart Recorder Product and Services
9.11.4 BrainChild Electronic Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 BrainChild Electronic Recent Developments/Updates
9.11.6 BrainChild Electronic Competitive Strengths & Weaknesses

+357 96 030922
info@marketpublishers.com

9.12 Monarch Instrument
9.12.1 Monarch Instrument Details
9.12.2 Monarch Instrument Major Business
9.12.3 Monarch Instrument Panel Mount Paperless Chart Recorder Product and Services
9.12.4 Monarch Instrument Panel Mount Paperless Chart Recorder Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 Monarch Instrument Recent Developments/Updates
9.12.6 Monarch Instrument Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Panel Mount Paperless Chart Recorder Industry Chain
10.2 Panel Mount Paperless Chart Recorder Upstream Analysis
10.2.1 Panel Mount Paperless Chart Recorder Core Raw Materials
10.2.2 Main Manufacturers of Panel Mount Paperless Chart Recorder Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Panel Mount Paperless Chart Recorder Production Mode
10.6 Panel Mount Paperless Chart Recorder Procurement Model
10.7 Panel Mount Paperless Chart Recorder Industry Sales Model and Sales Channels
10.7.1 Panel Mount Paperless Chart Recorder Sales Model
10.7.2 Panel Mount Paperless Chart Recorder Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Panel Mount Paperless Chart Recorder Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Panel Mount Paperless Chart Recorder Production Value by Region (2021-2026) & (USD Million)
Table 3. World Panel Mount Paperless Chart Recorder Production Value by Region (2027-2032) & (USD Million)
Table 4. World Panel Mount Paperless Chart Recorder Production Value Market Share by Region (2021-2026)
Table 5. World Panel Mount Paperless Chart Recorder Production Value Market Share by Region (2027-2032)
Table 6. World Panel Mount Paperless Chart Recorder Production by Region (2021-2026) & (K Units)
Table 7. World Panel Mount Paperless Chart Recorder Production by Region (2027-2032) & (K Units)
Table 8. World Panel Mount Paperless Chart Recorder Production Market Share by Region (2021-2026)
Table 9. World Panel Mount Paperless Chart Recorder Production Market Share by Region (2027-2032)
Table 10. World Panel Mount Paperless Chart Recorder Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Panel Mount Paperless Chart Recorder Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Panel Mount Paperless Chart Recorder Major Market Trends
Table 13. World Panel Mount Paperless Chart Recorder Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Panel Mount Paperless Chart Recorder Consumption by Region (2021-2026) & (K Units)
Table 15. World Panel Mount Paperless Chart Recorder Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Panel Mount Paperless Chart Recorder Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Panel Mount Paperless Chart Recorder Producers in 2025
Table 18. World Panel Mount Paperless Chart Recorder Production by Manufacturer (2021-2026) & (K Units)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key Panel Mount Paperless Chart Recorder Producers in 2025
Table 20. World Panel Mount Paperless Chart Recorder Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Panel Mount Paperless Chart Recorder Company Evaluation Quadrant
Table 22. World Panel Mount Paperless Chart Recorder Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Panel Mount Paperless Chart Recorder Production Site of Key Manufacturer
Table 24. Panel Mount Paperless Chart Recorder Market: Company Product Type Footprint
Table 25. Panel Mount Paperless Chart Recorder Market: Company Product Application Footprint
Table 26. Panel Mount Paperless Chart Recorder Competitive Factors
Table 27. Panel Mount Paperless Chart Recorder New Entrant and Capacity Expansion Plans
Table 28. Panel Mount Paperless Chart Recorder Mergers & Acquisitions Activity
Table 29. United States VS China Panel Mount Paperless Chart Recorder Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Panel Mount Paperless Chart Recorder Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Panel Mount Paperless Chart Recorder Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Panel Mount Paperless Chart Recorder Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Panel Mount Paperless Chart Recorder Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Panel Mount Paperless Chart Recorder Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Panel Mount Paperless Chart Recorder Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Panel Mount Paperless Chart Recorder Production Market Share (2021-2026)
Table 37. China Based Panel Mount Paperless Chart Recorder Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Panel Mount Paperless Chart Recorder Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Panel Mount Paperless Chart Recorder

+357 96 030922
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Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Panel Mount Paperless Chart Recorder Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Panel Mount Paperless Chart Recorder Production Market Share (2021-2026)
Table 42. Rest of World Based Panel Mount Paperless Chart Recorder Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Panel Mount Paperless Chart Recorder Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Panel Mount Paperless Chart Recorder Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Panel Mount Paperless Chart Recorder Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Panel Mount Paperless Chart Recorder Production Market Share (2021-2026)
Table 47. World Panel Mount Paperless Chart Recorder Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Panel Mount Paperless Chart Recorder Production by Type (2021-2026) & (K Units)
Table 49. World Panel Mount Paperless Chart Recorder Production by Type (2027-2032) & (K Units)
Table 50. World Panel Mount Paperless Chart Recorder Production Value by Type (2021-2026) & (USD Million)
Table 51. World Panel Mount Paperless Chart Recorder Production Value by Type (2027-2032) & (USD Million)
Table 52. World Panel Mount Paperless Chart Recorder Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Panel Mount Paperless Chart Recorder Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Panel Mount Paperless Chart Recorder Production Value by Number of Input Channels, (USD Million), 2021 & 2025 & 2032
Table 55. World Panel Mount Paperless Chart Recorder Production by Number of Input Channels (2021-2026) & (K Units)
Table 56. World Panel Mount Paperless Chart Recorder Production by Number of Input Channels (2027-2032) & (K Units)
Table 57. World Panel Mount Paperless Chart Recorder Production Value by Number of Input Channels (2021-2026) & (USD Million)
Table 58. World Panel Mount Paperless Chart Recorder Production Value by Number of Input Channels (2027-2032) & (USD Million)

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Table 59. World Panel Mount Paperless Chart Recorder Average Price by Number of Input Channels (2021-2026) & (US$/Unit)
Table 60. World Panel Mount Paperless Chart Recorder Average Price by Number of Input Channels (2027-2032) & (US$/Unit)
Table 61. World Panel Mount Paperless Chart Recorder Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032
Table 62. World Panel Mount Paperless Chart Recorder Production by Sales Channel (2021-2026) & (K Units)
Table 63. World Panel Mount Paperless Chart Recorder Production by Sales Channel (2027-2032) & (K Units)
Table 64. World Panel Mount Paperless Chart Recorder Production Value by Sales Channel (2021-2026) & (USD Million)
Table 65. World Panel Mount Paperless Chart Recorder Production Value by Sales Channel (2027-2032) & (USD Million)
Table 66. World Panel Mount Paperless Chart Recorder Average Price by Sales Channel (2021-2026) & (US$/Unit)
Table 67. World Panel Mount Paperless Chart Recorder Average Price by Sales Channel (2027-2032) & (US$/Unit)
Table 68. World Panel Mount Paperless Chart Recorder Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Panel Mount Paperless Chart Recorder Production by Application (2021-2026) & (K Units)
Table 70. World Panel Mount Paperless Chart Recorder Production by Application (2027-2032) & (K Units)
Table 71. World Panel Mount Paperless Chart Recorder Production Value by Application (2021-2026) & (USD Million)
Table 72. World Panel Mount Paperless Chart Recorder Production Value by Application (2027-2032) & (USD Million)
Table 73. World Panel Mount Paperless Chart Recorder Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Panel Mount Paperless Chart Recorder Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Honeywell Basic Information, Manufacturing Base and Competitors
Table 76. Honeywell Major Business
Table 77. Honeywell Panel Mount Paperless Chart Recorder Product and Services
Table 78. Honeywell Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Honeywell Recent Developments/Updates

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Table 80. Honeywell Competitive Strengths & Weaknesses
Table 81. Siemens Basic Information, Manufacturing Base and Competitors
Table 82. Siemens Major Business
Table 83. Siemens Panel Mount Paperless Chart Recorder Product and Services
Table 84. Siemens Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Siemens Recent Developments/Updates
Table 86. Siemens Competitive Strengths & Weaknesses
Table 87. ABB Basic Information, Manufacturing Base and Competitors
Table 88. ABB Major Business
Table 89. ABB Panel Mount Paperless Chart Recorder Product and Services
Table 90. ABB Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. ABB Recent Developments/Updates
Table 92. ABB Competitive Strengths & Weaknesses
Table 93. Endress+Hauser Group Basic Information, Manufacturing Base and Competitors
Table 94. Endress+Hauser Group Major Business
Table 95. Endress+Hauser Group Panel Mount Paperless Chart Recorder Product and Services
Table 96. Endress+Hauser Group Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Endress+Hauser Group Recent Developments/Updates
Table 98. Endress+Hauser Group Competitive Strengths & Weaknesses
Table 99. Yokogawa Electric Basic Information, Manufacturing Base and Competitors
Table 100. Yokogawa Electric Major Business
Table 101. Yokogawa Electric Panel Mount Paperless Chart Recorder Product and Services
Table 102. Yokogawa Electric Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Yokogawa Electric Recent Developments/Updates
Table 104. Yokogawa Electric Competitive Strengths & Weaknesses
Table 105. JUMO GmbH & Co. KG Basic Information, Manufacturing Base and Competitors
Table 106. JUMO GmbH & Co. KG Major Business

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Table 107. JUMO GmbH & Co. KG Panel Mount Paperless Chart Recorder Product and Services
Table 108. JUMO GmbH & Co. KG Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. JUMO GmbH & Co. KG Recent Developments/Updates
Table 110. JUMO GmbH & Co. KG Competitive Strengths & Weaknesses
Table 111. Azbil Corporation Basic Information, Manufacturing Base and Competitors
Table 112. Azbil Corporation Major Business
Table 113. Azbil Corporation Panel Mount Paperless Chart Recorder Product and Services
Table 114. Azbil Corporation Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Azbil Corporation Recent Developments/Updates
Table 116. Azbil Corporation Competitive Strengths & Weaknesses
Table 117. Chino Corporation Basic Information, Manufacturing Base and Competitors
Table 118. Chino Corporation Major Business
Table 119. Chino Corporation Panel Mount Paperless Chart Recorder Product and Services
Table 120. Chino Corporation Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Chino Corporation Recent Developments/Updates
Table 122. Chino Corporation Competitive Strengths & Weaknesses
Table 123. Eurotherm Basic Information, Manufacturing Base and Competitors
Table 124. Eurotherm Major Business
Table 125. Eurotherm Panel Mount Paperless Chart Recorder Product and Services
Table 126. Eurotherm Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Eurotherm Recent Developments/Updates
Table 128. Eurotherm Competitive Strengths & Weaknesses
Table 129. OMEGA Engineering Basic Information, Manufacturing Base and Competitors
Table 130. OMEGA Engineering Major Business
Table 131. OMEGA Engineering Panel Mount Paperless Chart Recorder Product and Services
Table 132. OMEGA Engineering Panel Mount Paperless Chart Recorder Production (K

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Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. OMEGA Engineering Recent Developments/Updates
Table 134. OMEGA Engineering Competitive Strengths & Weaknesses
Table 135. BrainChild Electronic Basic Information, Manufacturing Base and Competitors
Table 136. BrainChild Electronic Major Business
Table 137. BrainChild Electronic Panel Mount Paperless Chart Recorder Product and Services
Table 138. BrainChild Electronic Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. BrainChild Electronic Recent Developments/Updates
Table 140. BrainChild Electronic Competitive Strengths & Weaknesses
Table 141. Monarch Instrument Basic Information, Manufacturing Base and Competitors
Table 142. Monarch Instrument Major Business
Table 143. Monarch Instrument Panel Mount Paperless Chart Recorder Product and Services
Table 144. Monarch Instrument Panel Mount Paperless Chart Recorder Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Monarch Instrument Recent Developments/Updates
Table 146. Monarch Instrument Competitive Strengths & Weaknesses
Table 147. Global Key Players of Panel Mount Paperless Chart Recorder Upstream (Raw Materials)
Table 148. Global Panel Mount Paperless Chart Recorder Typical Customers
Table 149. Panel Mount Paperless Chart Recorder Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Panel Mount Paperless Chart Recorder Picture
Figure 2. World Panel Mount Paperless Chart Recorder Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Panel Mount Paperless Chart Recorder Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Panel Mount Paperless Chart Recorder Production (2021-2032) & (K Units)
Figure 5. World Panel Mount Paperless Chart Recorder Average Price (2021-2032) & (US$/Unit)
Figure 6. World Panel Mount Paperless Chart Recorder Production Value Market Share by Region (2021-2032)
Figure 7. World Panel Mount Paperless Chart Recorder Production Market Share by Region (2021-2032)
Figure 8. North America Panel Mount Paperless Chart Recorder Production (2021-2032) & (K Units)
Figure 9. Europe Panel Mount Paperless Chart Recorder Production (2021-2032) & (K Units)
Figure 10. China Panel Mount Paperless Chart Recorder Production (2021-2032) & (K Units)
Figure 11. Japan Panel Mount Paperless Chart Recorder Production (2021-2032) & (K Units)
Figure 12. Panel Mount Paperless Chart Recorder Market Drivers
Figure 13. Factors Affecting Demand
Figure 14. World Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)
Figure 15. World Panel Mount Paperless Chart Recorder Consumption Market Share by Region (2021-2032)
Figure 16. United States Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)
Figure 17. China Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)
Figure 18. Europe Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)
Figure 19. Japan Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)

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Figure 20. South Korea Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)
Figure 21. ASEAN Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)
Figure 22. India Panel Mount Paperless Chart Recorder Consumption (2021-2032) & (K Units)
Figure 23. Producer Shipments of Panel Mount Paperless Chart Recorder by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 24. Global Four-firm Concentration Ratios (CR4) for Panel Mount Paperless Chart Recorder Markets in 2025
Figure 25. Global Four-firm Concentration Ratios (CR8) for Panel Mount Paperless Chart Recorder Markets in 2025
Figure 26. United States VS China: Panel Mount Paperless Chart Recorder Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 27. United States VS China: Panel Mount Paperless Chart Recorder Production Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Panel Mount Paperless Chart Recorder Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States Based Manufacturers Panel Mount Paperless Chart Recorder Production Market Share 2025
Figure 30. China Based Manufacturers Panel Mount Paperless Chart Recorder Production Market Share 2025
Figure 31. Rest of World Based Manufacturers Panel Mount Paperless Chart Recorder Production Market Share 2025
Figure 32. World Panel Mount Paperless Chart Recorder Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 33. World Panel Mount Paperless Chart Recorder Production Value Market Share by Type in 2025
Figure 34. Touch Screen Paperless Recorder
Figure 35. Button Operated Paperless Recorder
Figure 36. World Panel Mount Paperless Chart Recorder Production Market Share by Type (2021-2032)
Figure 37. World Panel Mount Paperless Chart Recorder Production Value Market Share by Type (2021-2032)
Figure 38. World Panel Mount Paperless Chart Recorder Average Price by Type (2021-2032) & (US$/Unit)
Figure 39. World Panel Mount Paperless Chart Recorder Production Value by Number of Input Channels, (USD Million), 2021 & 2025 & 2032
Figure 40. World Panel Mount Paperless Chart Recorder Production Value Market

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Share by Number of Input Channels in 2025
Figure 41. 1?8 Input Channels
Figure 42. 9?16 Input Channels
Figure 43. 17?48 Input Channels
Figure 44. Over 48 Input Channels
Figure 45. World Panel Mount Paperless Chart Recorder Production Market Share by Number of Input Channels (2021-2032)
Figure 46. World Panel Mount Paperless Chart Recorder Production Value Market Share by Number of Input Channels (2021-2032)
Figure 47. World Panel Mount Paperless Chart Recorder Average Price by Number of Input Channels (2021-2032) & (US$/Unit)
Figure 48. World Panel Mount Paperless Chart Recorder Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032
Figure 49. World Panel Mount Paperless Chart Recorder Production Value Market Share by Sales Channel in 2025
Figure 50. Direct Sales
Figure 51. Distribution
Figure 52. World Panel Mount Paperless Chart Recorder Production Market Share by Sales Channel (2021-2032)
Figure 53. World Panel Mount Paperless Chart Recorder Production Value Market Share by Sales Channel (2021-2032)
Figure 54. World Panel Mount Paperless Chart Recorder Average Price by Sales Channel (2021-2032) & (US$/Unit)
Figure 55. World Panel Mount Paperless Chart Recorder Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 56. World Panel Mount Paperless Chart Recorder Production Value Market Share by Application in 2025
Figure 57. Industrial Automation and Process Control
Figure 58. Environmental Testing and Energy Management
Figure 59. Laboratory Research and Testing
Figure 60. Others
Figure 61. World Panel Mount Paperless Chart Recorder Production Market Share by Application (2021-2032)
Figure 62. World Panel Mount Paperless Chart Recorder Production Value Market Share by Application (2021-2032)
Figure 63. World Panel Mount Paperless Chart Recorder Average Price by Application (2021-2032) & (US$/Unit)
Figure 64. Panel Mount Paperless Chart Recorder Industry Chain
Figure 65. Panel Mount Paperless Chart Recorder Procurement Model

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Figure 66. Panel Mount Paperless Chart Recorder Sales Model
Figure 67. Panel Mount Paperless Chart Recorder Sales Channels, Direct Sales, and Distribution
Figure 68. Methodology
Figure 69. Research Process and Data Source

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