

Global Cockpit Voice and Data Recorders (Black Box) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G7AE640A1516EN.html>

Date: September 2023

Pages: 95

Price: US\$ 3,480.00 (Single User License)

ID: G7AE640A1516EN

Abstracts

According to our (Global Info Research) latest study, the global Cockpit Voice and Data Recorders (Black Box) market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

Cockpit Voice Recorder (CVR) and Flight Data Recorder (FDR), commonly referred to as the 'black box,' are critical components of an aircraft's safety systems. They play a crucial role in investigating aviation accidents and incidents, providing valuable data that helps investigators understand the sequence of events leading up to an incident or accident.

Cockpit Voice Recorder (CVR):

The Cockpit Voice Recorder is a device installed in the cockpit of an aircraft that records all audio communication between the flight crew (pilots and other crew members) and air traffic control, as well as any other sounds or conversations that occur in the cockpit during flight. The purpose of the CVR is to capture verbal exchanges, radio transmissions, alarms, engine noises, and other relevant audio information. This recorded audio helps investigators reconstruct conversations, decisions, and actions taken by the flight crew before and during an incident or accident. Typically, the CVR retains the last two hours of audio recordings.

Flight Data Recorder (FDR):

The Flight Data Recorder is another component of the 'black box' system. It records a wide range of flight parameters and technical data from the aircraft's systems. This data

includes information such as altitude, airspeed, heading, vertical acceleration, control surface positions, engine performance, and various other sensor readings. The FDR provides a comprehensive overview of how the aircraft was operating and how it responded to pilot inputs or external factors. This data is critical for understanding the aircraft's behavior and performance leading up to an incident or accident.

Both the CVR and FDR are designed to withstand extreme conditions, including high impact forces, fire, and water immersion. They are typically housed in strong, impact-resistant casings to enhance their survivability. In the event of an accident, these devices can greatly assist aviation authorities and investigators in determining the causes and contributing factors of the incident, which in turn can lead to improved safety measures and procedures in aviation.

The Global Info Research report includes an overview of the development of the Cockpit Voice and Data Recorders (Black Box) industry chain, the market status of Military Use (CVR, FDR), Civil Use (CVR, FDR), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Cockpit Voice and Data Recorders (Black Box).

Regionally, the report analyzes the Cockpit Voice and Data Recorders (Black Box) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Cockpit Voice and Data Recorders (Black Box) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Cockpit Voice and Data Recorders (Black Box) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Cockpit Voice and Data Recorders (Black Box) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., CVR, FDR).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Cockpit Voice and Data Recorders (Black Box) market.

Regional Analysis: The report involves examining the Cockpit Voice and Data Recorders (Black Box) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Cockpit Voice and Data Recorders (Black Box) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Cockpit Voice and Data Recorders (Black Box):

Company Analysis: Report covers individual Cockpit Voice and Data Recorders (Black Box) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Cockpit Voice and Data Recorders (Black Box) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Military Use, Civil Use).

Technology Analysis: Report covers specific technologies relevant to Cockpit Voice and Data Recorders (Black Box). It assesses the current state, advancements, and potential future developments in Cockpit Voice and Data Recorders (Black Box) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Cockpit Voice and Data Recorders (Black Box) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Cockpit Voice and Data Recorders (Black Box) market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

CVR

FDR

CVFDR

Market segment by Application

Military Use

Civil Use

Major players covered

L3Harris Technologies

Honeywell Aerospace

Leonardo

Universal Avionics

Teledyne Controls

Curtiss-Wright Corporation

Safran Group

GE Aviation

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 Cockpit Voice and Data Recorders (Black Box) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cockpit Voice and Data Recorders (Black Box), with price, sales, revenue and global market share of Cockpit Voice and Data Recorders (Black Box) from 2018 to 2023.

Chapter 3, the Cockpit Voice and Data Recorders (Black Box) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cockpit Voice and Data Recorders (Black Box) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Cockpit Voice and Data Recorders (Black Box) market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cockpit Voice and Data Recorders (Black Box).

Chapter 14 and 15, to describe Cockpit Voice and Data Recorders (Black Box) sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Cockpit Voice and Data Recorders (Black Box)
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
 - 1.3.1 Overview: Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Type: 2018 Versus 2022 Versus 2029
 - 1.3.2 CVR
 - 1.3.3 FDR
 - 1.3.4 CVFDR
- 1.4 Market Analysis by Application
 - 1.4.1 Overview: Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Application: 2018 Versus 2022 Versus 2029
 - 1.4.2 Military Use
 - 1.4.3 Civil Use
- 1.5 Global Cockpit Voice and Data Recorders (Black Box) Market Size & Forecast
 - 1.5.1 Global Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018 & 2022 & 2029)
 - 1.5.2 Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity (2018-2029)
 - 1.5.3 Global Cockpit Voice and Data Recorders (Black Box) Average Price (2018-2029)

2 MANUFACTURERS PROFILES

- 2.1 L3Harris Technologies
 - 2.1.1 L3Harris Technologies Details
 - 2.1.2 L3Harris Technologies Major Business
 - 2.1.3 L3Harris Technologies Cockpit Voice and Data Recorders (Black Box) Product and Services
 - 2.1.4 L3Harris Technologies Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
 - 2.1.5 L3Harris Technologies Recent Developments/Updates
- 2.2 Honeywell Aerospace
 - 2.2.1 Honeywell Aerospace Details
 - 2.2.2 Honeywell Aerospace Major Business
 - 2.2.3 Honeywell Aerospace Cockpit Voice and Data Recorders (Black Box) Product

and Services

2.2.4 Honeywell Aerospace Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 Honeywell Aerospace Recent Developments/Updates

2.3 Leonardo

2.3.1 Leonardo Details

2.3.2 Leonardo Major Business

2.3.3 Leonardo Cockpit Voice and Data Recorders (Black Box) Product and Services

2.3.4 Leonardo Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 Leonardo Recent Developments/Updates

2.4 Universal Avionics

2.4.1 Universal Avionics Details

2.4.2 Universal Avionics Major Business

2.4.3 Universal Avionics Cockpit Voice and Data Recorders (Black Box) Product and Services

2.4.4 Universal Avionics Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 Universal Avionics Recent Developments/Updates

2.5 Teledyne Controls

2.5.1 Teledyne Controls Details

2.5.2 Teledyne Controls Major Business

2.5.3 Teledyne Controls Cockpit Voice and Data Recorders (Black Box) Product and Services

2.5.4 Teledyne Controls Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 Teledyne Controls Recent Developments/Updates

2.6 Curtiss-Wright Corporation

2.6.1 Curtiss-Wright Corporation Details

2.6.2 Curtiss-Wright Corporation Major Business

2.6.3 Curtiss-Wright Corporation Cockpit Voice and Data Recorders (Black Box) Product and Services

2.6.4 Curtiss-Wright Corporation Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 Curtiss-Wright Corporation Recent Developments/Updates

2.7 Safran Group

2.7.1 Safran Group Details

2.7.2 Safran Group Major Business

2.7.3 Safran Group Cockpit Voice and Data Recorders (Black Box) Product and

Services

2.7.4 Safran Group Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 Safran Group Recent Developments/Updates

2.8 GE Aviation

2.8.1 GE Aviation Details

2.8.2 GE Aviation Major Business

2.8.3 GE Aviation Cockpit Voice and Data Recorders (Black Box) Product and Services

2.8.4 GE Aviation Cockpit Voice and Data Recorders (Black Box) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.8.5 GE Aviation Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: COCKPIT VOICE AND DATA RECORDERS (BLACK BOX) BY MANUFACTURER

3.1 Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Manufacturer (2018-2023)

3.2 Global Cockpit Voice and Data Recorders (Black Box) Revenue by Manufacturer (2018-2023)

3.3 Global Cockpit Voice and Data Recorders (Black Box) Average Price by Manufacturer (2018-2023)

3.4 Market Share Analysis (2022)

3.4.1 Producer Shipments of Cockpit Voice and Data Recorders (Black Box) by Manufacturer Revenue (\$MM) and Market Share (%): 2022

3.4.2 Top 3 Cockpit Voice and Data Recorders (Black Box) Manufacturer Market Share in 2022

3.4.2 Top 6 Cockpit Voice and Data Recorders (Black Box) Manufacturer Market Share in 2022

3.5 Cockpit Voice and Data Recorders (Black Box) Market: Overall Company Footprint Analysis

3.5.1 Cockpit Voice and Data Recorders (Black Box) Market: Region Footprint

3.5.2 Cockpit Voice and Data Recorders (Black Box) Market: Company Product Type Footprint

3.5.3 Cockpit Voice and Data Recorders (Black Box) Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Cockpit Voice and Data Recorders (Black Box) Market Size by Region

4.1.1 Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2018-2029)

4.1.2 Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2018-2029)

4.1.3 Global Cockpit Voice and Data Recorders (Black Box) Average Price by Region (2018-2029)

4.2 North America Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029)

4.3 Europe Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029)

4.4 Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029)

4.5 South America Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029)

4.6 Middle East and Africa Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029)

5 MARKET SEGMENT BY TYPE

5.1 Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2029)

5.2 Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Type (2018-2029)

5.3 Global Cockpit Voice and Data Recorders (Black Box) Average Price by Type (2018-2029)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2029)

6.2 Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Application (2018-2029)

6.3 Global Cockpit Voice and Data Recorders (Black Box) Average Price by Application (2018-2029)

7 NORTH AMERICA

7.1 North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2029)

7.2 North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2029)

7.3 North America Cockpit Voice and Data Recorders (Black Box) Market Size by Country

7.3.1 North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2018-2029)

7.3.2 North America Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

8 EUROPE

8.1 Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2029)

8.2 Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2029)

8.3 Europe Cockpit Voice and Data Recorders (Black Box) Market Size by Country

8.3.1 Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2018-2029)

8.3.2 Europe Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

9 ASIA-PACIFIC

9.1 Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Market Size by Region

9.3.1 Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

9.3.5 Korea Market Size and Forecast (2018-2029)

9.3.6 India Market Size and Forecast (2018-2029)

9.3.7 Southeast Asia Market Size and Forecast (2018-2029)

9.3.8 Australia Market Size and Forecast (2018-2029)

10 SOUTH AMERICA

10.1 South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2029)

10.2 South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2029)

10.3 South America Cockpit Voice and Data Recorders (Black Box) Market Size by Country

10.3.1 South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2018-2029)

10.3.2 South America Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2029)

11.2 Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2029)

11.3 Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Market Size by Country

11.3.1 Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2018-2029)

11.3.2 Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2018-2029)

11.3.3 Turkey Market Size and Forecast (2018-2029)

- 11.3.4 Egypt Market Size and Forecast (2018-2029)
- 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
- 11.3.6 South Africa Market Size and Forecast (2018-2029)

12 MARKET DYNAMICS

- 12.1 Cockpit Voice and Data Recorders (Black Box) Market Drivers
- 12.2 Cockpit Voice and Data Recorders (Black Box) Market Restraints
- 12.3 Cockpit Voice and Data Recorders (Black Box) Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry
- 12.5 Influence of COVID-19 and Russia-Ukraine War
 - 12.5.1 Influence of COVID-19
 - 12.5.2 Influence of Russia-Ukraine War

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Cockpit Voice and Data Recorders (Black Box) and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Cockpit Voice and Data Recorders (Black Box)
- 13.3 Cockpit Voice and Data Recorders (Black Box) Production Process
- 13.4 Cockpit Voice and Data Recorders (Black Box) Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Cockpit Voice and Data Recorders (Black Box) Typical Distributors
- 14.3 Cockpit Voice and Data Recorders (Black Box) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 2. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 3. L3Harris Technologies Basic Information, Manufacturing Base and Competitors
- Table 4. L3Harris Technologies Major Business
- Table 5. L3Harris Technologies Cockpit Voice and Data Recorders (Black Box) Product and Services
- Table 6. L3Harris Technologies Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 7. L3Harris Technologies Recent Developments/Updates
- Table 8. Honeywell Aerospace Basic Information, Manufacturing Base and Competitors
- Table 9. Honeywell Aerospace Major Business
- Table 10. Honeywell Aerospace Cockpit Voice and Data Recorders (Black Box) Product and Services
- Table 11. Honeywell Aerospace Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 12. Honeywell Aerospace Recent Developments/Updates
- Table 13. Leonardo Basic Information, Manufacturing Base and Competitors
- Table 14. Leonardo Major Business
- Table 15. Leonardo Cockpit Voice and Data Recorders (Black Box) Product and Services
- Table 16. Leonardo Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 17. Leonardo Recent Developments/Updates
- Table 18. Universal Avionics Basic Information, Manufacturing Base and Competitors
- Table 19. Universal Avionics Major Business
- Table 20. Universal Avionics Cockpit Voice and Data Recorders (Black Box) Product and Services
- Table 21. Universal Avionics Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Universal Avionics Recent Developments/Updates

Table 23. Teledyne Controls Basic Information, Manufacturing Base and Competitors

Table 24. Teledyne Controls Major Business

Table 25. Teledyne Controls Cockpit Voice and Data Recorders (Black Box) Product and Services

Table 26. Teledyne Controls Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. Teledyne Controls Recent Developments/Updates

Table 28. Curtiss-Wright Corporation Basic Information, Manufacturing Base and Competitors

Table 29. Curtiss-Wright Corporation Major Business

Table 30. Curtiss-Wright Corporation Cockpit Voice and Data Recorders (Black Box) Product and Services

Table 31. Curtiss-Wright Corporation Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 32. Curtiss-Wright Corporation Recent Developments/Updates

Table 33. Safran Group Basic Information, Manufacturing Base and Competitors

Table 34. Safran Group Major Business

Table 35. Safran Group Cockpit Voice and Data Recorders (Black Box) Product and Services

Table 36. Safran Group Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 37. Safran Group Recent Developments/Updates

Table 38. GE Aviation Basic Information, Manufacturing Base and Competitors

Table 39. GE Aviation Major Business

Table 40. GE Aviation Cockpit Voice and Data Recorders (Black Box) Product and Services

Table 41. GE Aviation Cockpit Voice and Data Recorders (Black Box) Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 42. GE Aviation Recent Developments/Updates

Table 43. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 44. Global Cockpit Voice and Data Recorders (Black Box) Revenue by Manufacturer (2018-2023) & (USD Million)

Table 45. Global Cockpit Voice and Data Recorders (Black Box) Average Price by

Manufacturer (2018-2023) & (US\$/Unit)

Table 46. Market Position of Manufacturers in Cockpit Voice and Data Recorders (Black Box), (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 47. Head Office and Cockpit Voice and Data Recorders (Black Box) Production Site of Key Manufacturer

Table 48. Cockpit Voice and Data Recorders (Black Box) Market: Company Product Type Footprint

Table 49. Cockpit Voice and Data Recorders (Black Box) Market: Company Product Application Footprint

Table 50. Cockpit Voice and Data Recorders (Black Box) New Market Entrants and Barriers to Market Entry

Table 51. Cockpit Voice and Data Recorders (Black Box) Mergers, Acquisition, Agreements, and Collaborations

Table 52. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2018-2023) & (K Units)

Table 53. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2024-2029) & (K Units)

Table 54. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2018-2023) & (USD Million)

Table 55. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2024-2029) & (USD Million)

Table 56. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Region (2018-2023) & (US\$/Unit)

Table 57. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Region (2024-2029) & (US\$/Unit)

Table 58. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2023) & (K Units)

Table 59. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2024-2029) & (K Units)

Table 60. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Type (2018-2023) & (USD Million)

Table 61. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Type (2024-2029) & (USD Million)

Table 62. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Type (2018-2023) & (US\$/Unit)

Table 63. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Type (2024-2029) & (US\$/Unit)

Table 64. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2023) & (K Units)

Table 65. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2024-2029) & (K Units)

Table 66. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Application (2018-2023) & (USD Million)

Table 67. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Application (2024-2029) & (USD Million)

Table 68. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Application (2018-2023) & (US\$/Unit)

Table 69. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Application (2024-2029) & (US\$/Unit)

Table 70. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2023) & (K Units)

Table 71. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2024-2029) & (K Units)

Table 72. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2023) & (K Units)

Table 73. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2024-2029) & (K Units)

Table 74. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2018-2023) & (K Units)

Table 75. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2024-2029) & (K Units)

Table 76. North America Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2018-2023) & (USD Million)

Table 77. North America Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2024-2029) & (USD Million)

Table 78. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2023) & (K Units)

Table 79. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2024-2029) & (K Units)

Table 80. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2023) & (K Units)

Table 81. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2024-2029) & (K Units)

Table 82. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2018-2023) & (K Units)

Table 83. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2024-2029) & (K Units)

Table 84. Europe Cockpit Voice and Data Recorders (Black Box) Consumption Value

by Country (2018-2023) & (USD Million)

Table 85. Europe Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2024-2029) & (USD Million)

Table 86. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2023) & (K Units)

Table 87. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2024-2029) & (K Units)

Table 88. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2023) & (K Units)

Table 89. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2024-2029) & (K Units)

Table 90. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2018-2023) & (K Units)

Table 91. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2024-2029) & (K Units)

Table 92. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2018-2023) & (USD Million)

Table 93. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2024-2029) & (USD Million)

Table 94. South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2023) & (K Units)

Table 95. South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2024-2029) & (K Units)

Table 96. South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2023) & (K Units)

Table 97. South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2024-2029) & (K Units)

Table 98. South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2018-2023) & (K Units)

Table 99. South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Country (2024-2029) & (K Units)

Table 100. South America Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2018-2023) & (USD Million)

Table 101. South America Cockpit Voice and Data Recorders (Black Box) Consumption Value by Country (2024-2029) & (USD Million)

Table 102. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2018-2023) & (K Units)

Table 103. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Type (2024-2029) & (K Units)

Table 104. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2018-2023) & (K Units)

Table 105. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Application (2024-2029) & (K Units)

Table 106. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2018-2023) & (K Units)

Table 107. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity by Region (2024-2029) & (K Units)

Table 108. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2018-2023) & (USD Million)

Table 109. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Consumption Value by Region (2024-2029) & (USD Million)

Table 110. Cockpit Voice and Data Recorders (Black Box) Raw Material

Table 111. Key Manufacturers of Cockpit Voice and Data Recorders (Black Box) Raw Materials

Table 112. Cockpit Voice and Data Recorders (Black Box) Typical Distributors

Table 113. Cockpit Voice and Data Recorders (Black Box) Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Cockpit Voice and Data Recorders (Black Box) Picture
- Figure 2. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Type in 2022
- Figure 4. CVR Examples
- Figure 5. FDR Examples
- Figure 6. CVFDR Examples
- Figure 7. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 8. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Application in 2022
- Figure 9. Military Use Examples
- Figure 10. Civil Use Examples
- Figure 11. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 12. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 13. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity (2018-2029) & (K Units)
- Figure 14. Global Cockpit Voice and Data Recorders (Black Box) Average Price (2018-2029) & (US\$/Unit)
- Figure 15. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Manufacturer in 2022
- Figure 16. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Manufacturer in 2022
- Figure 17. Producer Shipments of Cockpit Voice and Data Recorders (Black Box) by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 18. Top 3 Cockpit Voice and Data Recorders (Black Box) Manufacturer (Consumption Value) Market Share in 2022
- Figure 19. Top 6 Cockpit Voice and Data Recorders (Black Box) Manufacturer (Consumption Value) Market Share in 2022
- Figure 20. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Region (2018-2029)
- Figure 21. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value

Market Share by Region (2018-2029)

Figure 22. North America Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029) & (USD Million)

Figure 23. Europe Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029) & (USD Million)

Figure 24. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029) & (USD Million)

Figure 25. South America Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029) & (USD Million)

Figure 26. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Consumption Value (2018-2029) & (USD Million)

Figure 27. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Type (2018-2029)

Figure 28. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Type (2018-2029)

Figure 29. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Type (2018-2029) & (US\$/Unit)

Figure 30. Global Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Application (2018-2029)

Figure 31. Global Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Application (2018-2029)

Figure 32. Global Cockpit Voice and Data Recorders (Black Box) Average Price by Application (2018-2029) & (US\$/Unit)

Figure 33. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Type (2018-2029)

Figure 34. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Application (2018-2029)

Figure 35. North America Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Country (2018-2029)

Figure 36. North America Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Country (2018-2029)

Figure 37. United States Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 38. Canada Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 39. Mexico Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 40. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Type (2018-2029)

Figure 41. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Application (2018-2029)

Figure 42. Europe Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Country (2018-2029)

Figure 43. Europe Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Country (2018-2029)

Figure 44. Germany Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 45. France Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 46. United Kingdom Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 47. Russia Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. Italy Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Type (2018-2029)

Figure 50. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Application (2018-2029)

Figure 51. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Region (2018-2029)

Figure 52. Asia-Pacific Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Region (2018-2029)

Figure 53. China Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 54. Japan Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 55. Korea Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 56. India Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Southeast Asia Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Australia Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. South America Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Type (2018-2029)

Figure 60. South America Cockpit Voice and Data Recorders (Black Box) Sales

Quantity Market Share by Application (2018-2029)

Figure 61. South America Cockpit Voice and Data Recorders (Black Box) Sales

Quantity Market Share by Country (2018-2029)

Figure 62. South America Cockpit Voice and Data Recorders (Black Box) Consumption

Value Market Share by Country (2018-2029)

Figure 63. Brazil Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 64. Argentina Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 65. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Type (2018-2029)

Figure 66. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Application (2018-2029)

Figure 67. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Sales Quantity Market Share by Region (2018-2029)

Figure 68. Middle East & Africa Cockpit Voice and Data Recorders (Black Box) Consumption Value Market Share by Region (2018-2029)

Figure 69. Turkey Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 70. Egypt Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 71. Saudi Arabia Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 72. South Africa Cockpit Voice and Data Recorders (Black Box) Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Cockpit Voice and Data Recorders (Black Box) Market Drivers

Figure 74. Cockpit Voice and Data Recorders (Black Box) Market Restraints

Figure 75. Cockpit Voice and Data Recorders (Black Box) Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Cockpit Voice and Data Recorders (Black Box) in 2022

Figure 78. Manufacturing Process Analysis of Cockpit Voice and Data Recorders (Black Box)

Figure 79. Cockpit Voice and Data Recorders (Black Box) Industrial Chain

Figure 80. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

I would like to order

Product name: Global Cockpit Voice and Data Recorders (Black Box) Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

Product link: <https://marketpublishers.com/r/G7AE640A1516EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G7AE640A1516EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

