

# **Global Acousto Optic Devices Market is segmented By Device Type (Modulators, Deflectors, Frequency Shifters, Q-Switches, Tunable Filters), Application (Material Processing, Laser Processing), Regional Forecasts 2021-2027**

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## **Abstracts**

Global Acousto Optic Device Market is valued approximately at USD 404.4 million in 2020 and is anticipated to grow with a healthy growth rate of more than 7.24% over the forecast period 2021-2027. Optics is a branch of science that investigates and considers both the behaviour and characteristics of light. It also covers research that deals with the interactions between matter and light-detection equipment. The behavior of ultraviolet, infrared, and visible light is referred to as optics. The field of research known as acousto optics studies the interactions between sound and light waves. Acousto optic waves are created when the refractive index of a medium changes due to sound waves existing in the medium. Lasers may be deflected and modulated using acousto optic devices. The market is driven by growing laser applications in scientific sector and increasing demand for laser-based applications in manufacturing and healthcare sectors. Furthermore, global silicon wafer area shipments increased by 2.7 percent to 2,920 million square inches in the first quarter of 2020, compared to 2,844 million square inches in the fourth quarter of 2019, according to SEMI Silicon Manufacturers Group (SMG). The increase in shipments indicates a rise in demand for growing production capacity, which necessitates the usage of laser-based devices, driving market growth. However, high initial cost and increasing requirement-specific R&D expenses may impede market growth over the forecast period of 2021-2027.

Asia Pacific region is one of the primary contributors to the industry's growth with China, Japan, and India as some of the key competitors in this market. Huge expansion in the semiconductor sector, as well as increasing applications of acousto optic devices, have

been some of the key factors driving the overall market further. Furthermore, the growing industrialization of this region has contributed to the worldwide expansion of this market. Following Asia Pacific, North America and Europe are two additional important markets for acousto optic devices worldwide.

Major market player included in this report are:

L3Harris Technologies Inc.

Gooch and Housego PLC

Hudson Robotics Inc.

Lightcomm Technology Co. Ltd.

IntraAction Corporation

Coherent Inc

AA Opto Electronics Ltd.

AMS Technologies AG

Brimrose Corporation Of America

A·P·E Angewandte Physik & Elektronik GmbH

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Device type:

Modulators

Deflectors

Frequency Shifter

Q-Switches

Tunable Filters

Other Device Types

By Application:

Material Processing

Laser Processing

Other Applications

**By Region:**

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019

Base year – 2020

Forecast period – 2021 to 2027.

Target Audience of the Global Acousto Optic Device Market in Market Study:

Key Consulting Companies &amp; Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

## Contents

### CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2019-2027 (USD Billion)
  - 1.2.1. Acousto Optic Devices Market, by Region, 2019-2027 (USD Billion)
  - 1.2.2. Acousto Optic Devices Market, by Device type, 2019-2027 (USD Billion)
  - 1.2.3. Acousto Optic Devices Market, by Application, 2019-2027 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### CHAPTER 2. GLOBAL ACOUSTO OPTIC DEVICES MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### CHAPTER 3. GLOBAL ACOUSTO OPTIC DEVICES MARKET DYNAMICS

- 3.1. Acousto Optic Devices Market Impact Analysis (2019-2027)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Growing laser applications in scientific sector
    - 3.1.1.2. Increasing demand for laser-based applications in manufacturing and healthcare sectors
  - 3.1.2. Market Restraint
    - 3.1.2.1. High initial cost and increasing requirement-specific R&D expenses
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Growing use of fiber lasers to increase the demand for acousto-optic devices
    - 3.1.3.2. Emerging applications for acousto-optic devices in various fields

### CHAPTER 4. GLOBAL ACOUSTO OPTIC DEVICES MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model (2018-2027)
- 4.2. PEST Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
- 4.3. Investment Adoption Model
- 4.4. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL ACOUSTO OPTIC DEVICES MARKET, BY DEVICE TYPE**

- 5.1. Market Snapshot
- 5.2. Global Acousto Optic Devices Market by Device type, Performance - Potential Analysis
- 5.3. Global Acousto Optic Devices Market Estimates & Forecasts by Device type 2018-2027 (USD Billion)
- 5.4. Acousto Optic Devices Market , Sub Segment Analysis
  - 5.4.1. Modulators
  - 5.4.2. Deflectors
  - 5.4.3. Frequency Shifter
  - 5.4.4. Q-Switches
  - 5.4.5. Tunable Filters
  - 5.4.6. Other Device Types

## **CHAPTER 6. GLOBAL ACOUSTO OPTIC DEVICES MARKET, BY APPLICATION**

- 6.1. Market Snapshot
- 6.2. Global Acousto Optic Devices Market by Application, Performance - Potential Analysis
- 6.3. Global Acousto Optic Devices Market Estimates & Forecasts by Application 2018-2027 (USD Billion)
- 6.4. Acousto Optic Devices Market , Sub Segment Analysis
  - 6.4.1. Material Processing

- 6.4.2. Laser Processing
- 6.4.3. Other Applications

## **CHAPTER 7. GLOBAL ACOUSTO OPTIC DEVICES MARKET, REGIONAL ANALYSIS**

- 7.1. Acousto Optic Devices Market , Regional Market Snapshot
- 7.2. North America Acousto Optic Devices Market
  - 7.2.1. U.S. Acousto Optic Devices Market
    - 7.2.1.1. Device type breakdown estimates & forecasts, 2018-2027
    - 7.2.1.2. Application breakdown estimates & forecasts, 2018-2027
  - 7.2.2. Canada Acousto Optic Devices Market
- 7.3. Europe Acousto Optic Devices Market Snapshot
  - 7.3.1. U.K. Acousto Optic Devices Market
  - 7.3.2. Germany Acousto Optic Devices Market
  - 7.3.3. France Acousto Optic Devices Market
  - 7.3.4. Spain Acousto Optic Devices Market
  - 7.3.5. Italy Acousto Optic Devices Market
  - 7.3.6. Rest of Europe Acousto Optic Devices Market
- 7.4. Asia-Pacific Acousto Optic Devices Market Snapshot
  - 7.4.1. China Acousto Optic Devices Market
  - 7.4.2. India Acousto Optic Devices Market
  - 7.4.3. Japan Acousto Optic Devices Market
  - 7.4.4. Australia Acousto Optic Devices Market
  - 7.4.5. South Korea Acousto Optic Devices Market
  - 7.4.6. Rest of Asia Pacific Acousto Optic Devices Market
- 7.5. Latin America Acousto Optic Devices Market Snapshot
  - 7.5.1. Brazil Acousto Optic Devices Market
  - 7.5.2. Mexico Acousto Optic Devices Market
- 7.6. Rest of The World Acousto Optic Devices Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Top Market Strategies
- 8.2. Company Profiles
  - 8.2.1. L3Harris Technologies Inc.
    - 8.2.1.1. Key Information
    - 8.2.1.2. Overview
    - 8.2.1.3. Financial (Subject to Data Availability)

- 8.2.1.4. Product Summary
- 8.2.1.5. Recent Developments
- 8.2.2. Gooch and Housego PLC
- 8.2.3. Hudson Robotics Inc.
- 8.2.4. Lightcomm Technology Co. Ltd.
- 8.2.5. IntraAction Corporation
- 8.2.6. Coherent Inc
- 8.2.7. AA Opto Electronics Ltd.
- 8.2.8. AMS Technologies AG
- 8.2.9. Brimrose Corporation Of America
- 8.2.10. A·P·E Angewandte Physik & Elektronik GmbH

## **CHAPTER 9. RESEARCH PROCESS**

- 9.1. Research Process
  - 9.1.1. Data Mining
  - 9.1.2. Analysis
  - 9.1.3. Market Estimation
  - 9.1.4. Validation
  - 9.1.5. Publishing
- 9.2. Research Attributes
- 9.3. Research Assumption

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Acousto Optic Devices Market, report scope

TABLE 2. Global Acousto Optic Devices Market estimates & forecasts by region  
2018-2027 (USD Billion)

TABLE 3. Global Acousto Optic Devices Market estimates & forecasts by Device type  
2018-2027 (USD Billion)

TABLE 4. Global Acousto Optic Devices Market estimates & forecasts by Application  
2018-2027 (USD Billion)

TABLE 5. Global Acousto Optic Devices Market by segment, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 6. Global Acousto Optic Devices Market by region, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 7. Global Acousto Optic Devices Market by segment, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 8. Global Acousto Optic Devices Market by region, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 9. Global Acousto Optic Devices Market by segment, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 10. Global Acousto Optic Devices Market by region, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 11. Global Acousto Optic Devices Market by segment, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 12. Global Acousto Optic Devices Market by region, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 13. Global Acousto Optic Devices Market by segment, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 14. Global Acousto Optic Devices Market by region, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 15. Global Acousto Optic Devices Market by segment, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 16. Global Acousto Optic Devices Market by region, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 17. Global Acousto Optic Devices Market by segment, estimates & forecasts,  
2018-2027 (USD Billion)

TABLE 18. Global Acousto Optic Devices Market by region, estimates & forecasts,  
2018-2027 (USD Billion)



TABLE 19. Global Acousto Optic Devices Market by segment, estimates & forecasts, 2018-2027 (USD Billion)

TABLE 20. Global Acousto Optic Devices Market by region, estimates & forecasts, 2018-2027 (USD Billion)

TABLE 21. U.S. Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 22. U.S. Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 23. U.S. Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 24. Canada Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 25. Canada Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 26. Canada Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 27. UK Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 28. UK Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 29. UK Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 30. Germany Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 31. Germany Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 32. Germany Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 33. France Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 34. France Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 35. France Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 36. Spain Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 37. Spain Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 38. Spain Acousto Optic Devices Market estimates & forecasts by segment

2018-2027 (USD Billion)

TABLE 39. Italy Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 40. Italy Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 41. Italy Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 42. ROE Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 43. ROE Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 44. ROE Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 45. China Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 46. China Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 47. China Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 48. India Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 49. India Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 50. India Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 51. Japan Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 52. Japan Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 53. Japan Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 54. Australia Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 55. Australia Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 56. Australia Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 57. South Korea Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 58. South Korea Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 59. South Korea Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 60. ROPAC Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 61. ROPAC Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 62. ROPAC Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 63. Brazil Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 64. Brazil Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 65. Brazil Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 66. Mexico Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 67. Mexico Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 68. Mexico Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 69. ROLA Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 70. ROLA Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 71. ROLA Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 72. ROW Acousto Optic Devices Market estimates & forecasts, 2018-2027 (USD Billion)

TABLE 73. ROW Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 74. ROW Acousto Optic Devices Market estimates & forecasts by segment 2018-2027 (USD Billion)

TABLE 75. List of secondary sources used in the study of Global Acousto Optic Devices Market.

TABLE 76. List of primary sources used in the study of Global Acousto Optic Devices Market.

TABLE 77. Years considered for the study.

TABLE 78. Exchange rates considered.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Acousto Optic Devices Market, research methodology
- FIG 2. Global Acousto Optic Devices Market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Acousto Optic Devices Market, key trends 2020
- FIG 5. Global Acousto Optic Devices Market, growth prospects 2021-2027
- FIG 6. Global Acousto Optic Devices Market, porters 5 force model
- FIG 7. Global Acousto Optic Devices Market, pest analysis
- FIG 8. Global Acousto Optic Devices Market, value chain analysis
- FIG 9. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 10. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 11. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 12. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 13. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 14. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 15. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 16. Global Acousto Optic Devices Market by segment, 2018 & 2027 (USD Billion)
- FIG 17. Global Acousto Optic Devices Market, regional snapshot 2018 & 2027
- FIG 18. North America Acousto Optic Devices Market 2018 & 2027 (USD Billion)
- FIG 19. Europe Acousto Optic Devices Market 2018 & 2027 (USD Billion)
- FIG 20. Asia-Pacific Acousto Optic Devices Market 2018 & 2027 (USD Billion)
- FIG 21. Latin America Acousto Optic Devices Market 2018 & 2027 (USD Billion)
- FIG 22. Global Acousto Optic Devices Market, company market share analysis (2020)

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