

# **Electro-Optics in Naval Market Forecast to 2028 - COVID-19 Impact and Global Analysis By Technology (Camera, Sensor, and Laser Range Finder), Application (Target Detection, Identification, and Tracking; Surveillance; Fire Control; and Others), and End Use (Defense and Commercial)**

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## **Abstracts**

The global electro-optics in naval market was valued at US\$ 8,629.35 million in 2022 and is expected to reach US\$ 11,139.38 million by 2028; it is estimated to register a CAGR of 4.3% during the forecast period.

The rising military expenditure is boosting the investments in technological developments of naval vessels across different naval forces. Many countries such as the US, Russia, China, and India already have several naval vessel projects in the pipeline for expanding their respective naval fleet in the defense forces. Countries in the Middle East such as Iran and Israel are investing in the procurement and up-gradation of small to medium-sized vessels such as corvettes, missile boats, and coastal patrol boats for surveillance, threat detection, and identification applications. Moreover, the procurement of naval vessels continues to generate demand for electro-optic systems, thereby driving the electro-optics in naval market growth.

In addition, due to such conflicts and tensions, majority of the countries have increased their investments for the procurement of defense technologies including electro-optic systems for strengthening their respective armed forces and providing them with stronger and reliable operational solutions. Furthermore, there are also different types of already commissioned naval vessel projects across different countries which will be delivered to the respective countries during the forecast period and is likely to generate

new opportunities for market vendors during the forecast period.

## Impact of COVID-19 Pandemic on Electro-Optics in Naval Market Growth

The COVID-19 pandemic had a severe impact on operations and manufacturing across all the defense and shipbuilding sectors. The commercial shipbuilding sector, which could be threatened with extinction, is particularly hard hit. Defense and security have not experienced the same abrupt market collapse as commercial shipbuilding, but it was still hindered by the pandemic's severe fiscal impact, as the production of electro-optic systems and components was severely hampered due to supply chain issues. Additionally, the shift of government spending from military technologies to COVID-19 outbreak control measures slightly impacted the planned investments in the electro-optic technology market for the defense sector. However, businesses have evolved again by developing new strategies to emerge from the crisis and launch new projects to get back on track. Several vendors have received different contracts to provide electro-optic systems for naval applications, which has been contributing to revive the growth of electro-optics in naval market size.

In Asia Pacific, rise in procurement of naval vessels by naval forces in the region will increase the demand for electro-optics solutions, which would fuel the APAC electro-optics in naval market growth in the future. A few major contracts related to electro-optic solutions across the region are mentioned below:

- In May 2022, the Philippine Navy awarded a contract to Israel Aerospace Industries (IAI) to supply electro-optics solutions for their patrol vessels.
- In June 2021, Electric Systems Ltd received a contract from an undisclosed country in APAC to supply AI-powered electro-optical systems for their maritime forces. The company will supply SPECTRO XR multi-spectral electro-optic ("EO") systems to the country over a period of four years.

Thus, the rise in contracts of electro-optic solutions such as cameras, sensors, and laser range finders is driving the APAC electro-optics in naval market.

The military sector in many Middle East countries is in the growth stage, and the countries in the region are putting greater efforts into enhancing the strength of their military forces. As per global firepower, Egypt, Turkey, Israel, Saudi Arabia, and Iran are a few prominent countries in this region with good military strength. Besides, government bodies are making massive investments in strengthening their respective

armed forces. According to the International Institute for Strategic Studies (IISS), Saudi Arabia is a country with the largest military investments in the region. Riyadh's defense budget was more than the combined budget of the next five biggest spenders—Israel, Iraq, Algeria, Iran, and Oman—in the MEA. Substantial military investments enable these countries to adopt advanced technologies for effective combat.

Countries in South America are observing a rise in the number of merchant's vessels, as naval logistics is an integral part of the respective country's businesses. These merchant vessels are fitted with electro-optic systems such as cameras and sensors, which is augmenting the growth of the electro-optics in naval market in the region. Argentina had a noteworthy volume of domestic ships, accounting for 204 domestic ships in 2021. The Argentinian shipping industry is majorly categorized into general cargo ships, container ships, bulk carriers, and other types of ships. The constant growth in the shipping industry in the country is bolstering the demand for newer technologies. This factor is propelling the electro-optics in naval market growth.

Safran SA; L3Harris Technologies, Inc.; Ultra Maritime; Tonbo Imaging; Aselsan AS; Elbit Systems Ltd.; SAAB AB; Chess Dynamics; Isreal Aerospace Industries Ltd.; and Naval Group are a few key electro-optics in naval market players operating in the market.

## Contents

### **1. INTRODUCTION**

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation

### **2. KEY TAKEAWAYS**

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. ELECTRO-OPTICS IN NAVAL MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Porter's Five Forces Analysis
- 4.3 Ecosystem Analysis
- 4.4 Expert Opinions

### **5. ELECTRO-OPTICS IN NAVAL MARKET – KEY MARKET DYNAMICS**

- 5.1 Market Drivers
  - 5.1.1 Continuous Growth of Global Defense Sector
  - 5.1.2 Rising Focus of Vendors on Developing Innovative Products
- 5.2 Market Restraints
  - 5.2.1 Stagnant Lifecycle of Naval Electro-Optic Systems
- 5.3 MARKET OPPORTUNITIES
  - 5.3.1 Increasing Number of Disputes and Threats to Naval Vessels
- 5.4 Future Trends
  - 5.4.1 Rapid Developments in Electro-Optics Technology
- 5.5 Impact Analysis of Drivers and Restraints

### **6. ELECTRO-OPTICS IN NAVAL MARKET – GLOBAL MARKET ANALYSIS**

- 6.1 Global Electro-Optics in Naval Market Overview
- 6.2 Global Electro-Optics in Naval Market Revenue Forecast and Analysis
- 6.3 Market Positioning – Five Key Players

## **7. ELECTRO-OPTICS IN NAVAL MARKET– TECHNOLOGY**

- 7.1 Overview
- 7.2 Electro-Optics in Naval Market, By Technology (2021 & 2028)
- 7.3 Camera
  - 7.3.1 Overview
  - 7.3.2 Camera: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)
- 7.4 Sensor
  - 7.4.1 Overview
  - 7.4.2 Sensor: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)
- 7.5 Laser Range Finders
  - 7.5.1 Overview
  - 7.5.2 Laser Range Finders: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

## **8. ELECTRO-OPTICS IN NAVAL MARKET– APPLICATION**

- 8.1 Overview
- 8.2 Electro-Optics in Naval Market, By Application (2021 & 2028)
- 8.3 Target Detection, Identification, and Tracking
  - 8.3.1 Overview
  - 8.3.2 Target Detection, Identification, and Tracking: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)
- 8.4 Surveillance
  - 8.4.1 Overview
  - 8.4.2 Surveillance: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)
- 8.5 Fire Control
  - 8.5.1 Overview
  - 8.5.2 Fire Control: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)
- 8.6 Others
  - 8.6.1 Overview

8.6.2 Others: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

## **9. ELECTRO-OPTICS IN NAVAL MARKET– END USE**

9.1 Overview

9.2 Electro-Optics in Naval Market, By End Use (2021 & 2028)

9.3 Defense

9.3.1 Overview

9.3.2 Defense: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

9.3.3 Frigates

9.3.3.1 Overview

9.3.3.2 Frigates: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

9.3.4 Corvettes

9.3.4.1 Overview

9.3.4.2 Corvettes: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

9.3.5 Destroyers

9.3.5.1 Overview

9.3.5.2 Destroyers: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

9.3.6 Aircraft Carrier

9.3.6.1 Overview

9.3.6.2 Aircraft Carrier: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

9.3.7 Submarines

9.3.7.1 Overview

9.3.7.2 Submarines: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

9.3.8 Others

9.3.8.1 Overview

9.3.8.2 Others: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

9.4 Commercial

9.4.1 Overview

9.4.2 Commercial: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

### 9.4.3 Cruise Ships

#### 9.4.3.1 Overview

#### 9.4.3.2 Cruise Ships: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

### 9.4.4 Merchant Ships

#### 9.4.4.1 Overview

#### 9.4.4.2 Merchant Ships: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

### 9.4.5 Cargo Ships

#### 9.4.5.1 Overview

#### 9.4.5.2 Cargo Ships: Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

## **10. ELECTRO-OPTIC IN NAVAL MARKET – GEOGRAPHIC ANALYSIS**

### 10.1 Overview

### 10.2 North America: Electro-Optic in Naval Market

#### 10.2.1 North America: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

#### 10.2.2 North America: Electro-Optic in Naval Market, By Technology

#### 10.2.3 North America: Electro-Optic in Naval Market, by Application

#### 10.2.4 North America: Electro-Optic in Naval Market, by End Use

#### 10.2.5 North America: Electro-Optic in Naval Market, by Key Country

#### 10.2.6 US: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

##### 10.2.6.1 US: Electro-Optic in Naval Market, By Technology

##### 10.2.6.2 US: Electro-Optic in Naval Market, by Application

##### 10.2.6.3 US: Electro-Optic in Naval Market, by End Use

##### 10.2.6.3.1 US: Electro-Optic in Naval Market, by Defense

##### 10.2.6.3.2 US: Electro-Optic in Naval Market, by Commercial

#### 10.2.7 Canada: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

##### 10.2.7.1 Canada: Electro-Optic in Naval Market, By Technology

##### 10.2.7.2 Canada: Electro-Optic in Naval Market, by Application

##### 10.2.7.3 Canada: Electro-Optic in Naval Market, by End Use

##### 10.2.7.3.1 Canada: Electro-Optic in Naval Market, by Defense

##### 10.2.7.3.2 Canada: Electro-Optic in Naval Market, by Commercial

#### 10.2.8 Mexico: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

##### 10.2.8.1 Mexico: Electro-Optic in Naval Market, By Technology

- 10.2.8.2 Mexico: Electro-Optic in Naval Market, by Application
- 10.2.8.3 Mexico: Electro-Optic in Naval Market, by End Use
  - 10.2.8.3.1 Mexico: Electro-Optic in Naval Market, by Defense
  - 10.2.8.3.2 Mexico: Electro-Optic in Naval Market, by Commercial
- 10.3 Europe: Electro-Optic in Naval Market
  - 10.3.1 Europe: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
  - 10.3.2 Europe: Electro-Optic in Naval Market, By Technology
  - 10.3.3 Europe: Electro-Optic in Naval Market, by Application
  - 10.3.4 Europe: Electro-Optic in Naval Market, by End Use
  - 10.3.5 Europe: Electro-Optic in Naval Market, by Key Country
  - 10.3.6 Germany: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
    - 10.3.6.1 Germany: Electro-Optic in Naval Market, By Technology
    - 10.3.6.2 Germany: Electro-Optic in Naval Market, by Application
    - 10.3.6.3 Germany: Electro-Optic in Naval Market, by End Use
      - 10.3.6.3.1 Germany: Electro-Optic in Naval Market, by Defense
      - 10.3.6.3.2 Germany: Electro-Optic in Naval Market, by Commercial
  - 10.3.7 France: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
    - 10.3.7.1 France: Electro-Optic in Naval Market, By Technology
    - 10.3.7.2 France: Electro-Optic in Naval Market, by Application
    - 10.3.7.3 France: Electro-Optic in Naval Market, by End Use
      - 10.3.7.3.1 France: Electro-Optic in Naval Market, by Defense
      - 10.3.7.3.2 France: Electro-Optic in Naval Market, by Commercial
  - 10.3.8 Italy: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
    - 10.3.8.1 Italy: Electro-Optic in Naval Market, By Technology
    - 10.3.8.2 Italy: Electro-Optic in Naval Market, by Application
    - 10.3.8.3 Italy: Electro-Optic in Naval Market, by End Use
      - 10.3.8.3.1 Italy: Electro-Optic in Naval Market, by Defense
      - 10.3.8.3.2 Italy: Electro-Optic in Naval Market, by Commercial
  - 10.3.9 UK: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
    - 10.3.9.1 UK: Electro-Optic in Naval Market, By Technology
    - 10.3.9.2 UK: Electro-Optic in Naval Market, by Application
    - 10.3.9.3 UK: Electro-Optic in Naval Market, by End Use
      - 10.3.9.3.1 UK: Electro-Optic in Naval Market, by Defense
      - 10.3.9.3.2 UK: Electro-Optic in Naval Market, by Commercial
  - 10.3.10 Russia: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$



Million)

10.3.10.1 Russia: Electro-Optic in Naval Market, By Technology

10.3.10.2 Russia: Electro-Optic in Naval Market, by Application

10.3.10.3 Russia: Electro-Optic in Naval Market, by End Use

10.3.10.3.1 Russia: Electro-Optic in Naval Market, by Defense

10.3.10.3.2 Russia: Electro-Optic in Naval Market, by Commercial

10.3.11 Rest of Europe: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

10.3.11.1 Rest of Europe: Electro-Optic in Naval Market, By Technology

10.3.11.2 Rest of Europe: Electro-Optic in Naval Market, by Application

10.3.11.3 Rest of Europe: Electro-Optic in Naval Market, by End Use

10.3.11.3.1 Rest of Europe: Electro-Optic in Naval Market, by Defense

10.3.11.3.2 Rest of Europe: Electro-Optic in Naval Market, by Commercial

10.4 Asia Pacific: Electro-Optic in Naval Market

10.4.1 Asia Pacific: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

10.4.2 Asia Pacific: Electro-Optic in Naval Market, By Technology

10.4.3 Asia Pacific: Electro-Optic in Naval Market, by Application

10.4.4 Asia Pacific: Electro-Optic in Naval Market, by End Use

10.4.5 Asia Pacific: Electro-Optic in Naval Market, by Key Country

10.4.6 Australia: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

10.4.6.1 Australia: Electro-Optic in Naval Market, By Technology

10.4.6.2 Australia: Electro-Optic in Naval Market, by Application

10.4.6.3 Australia: Electro-Optic in Naval Market, by End Use

10.4.6.3.1 Australia: Electro-Optic in Naval Market, by Defense

10.4.6.3.2 Australia: Electro-Optic in Naval Market, by Commercial

10.4.7 China: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

10.4.7.1 China: Electro-Optic in Naval Market, By Technology

10.4.7.2 China: Electro-Optic in Naval Market, by Application

10.4.7.3 China: Electro-Optic in Naval Market, by End Use

10.4.7.3.1 China: Electro-Optic in Naval Market, by Defense

10.4.7.3.2 China: Electro-Optic in Naval Market, by Commercial

10.4.8 India: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)

10.4.8.1 India: Electro-Optic in Naval Market, By Technology

10.4.8.2 India: Electro-Optic in Naval Market, by Application

10.4.8.3 India: Electro-Optic in Naval Market, by End Use

- 10.4.8.3.1 India: Electro-Optic in Naval Market, by Defense
- 10.4.8.3.2 India: Electro-Optic in Naval Market, by Commercial
- 10.4.9 Japan: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
  - 10.4.9.1 Japan: Electro-Optic in Naval Market, By Technology
  - 10.4.9.2 Japan: Electro-Optic in Naval Market, by Application
  - 10.4.9.3 Japan: Electro-Optic in Naval Market, by End Use
    - 10.4.9.3.1 Japan: Electro-Optic in Naval Market, by Defense
    - 10.4.9.3.2 Japan: Electro-Optic in Naval Market, by Commercial
- 10.4.10 South Korea: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
  - 10.4.10.1 South Korea: Electro-Optic in Naval Market, By Technology
  - 10.4.10.2 South Korea: Electro-Optic in Naval Market, by Application
  - 10.4.10.3 South Korea: Electro-Optic in Naval Market, by End Use
    - 10.4.10.3.1 South Korea: Electro-Optic in Naval Market, by Defense
    - 10.4.10.3.2 South Korea: Electro-Optic in Naval Market, by Commercial
- 10.4.11 Rest of APAC: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
  - 10.4.11.1 Rest of APAC: Electro-Optic in Naval Market, By Technology
  - 10.4.11.2 Rest of APAC: Electro-Optic in Naval Market, by Application
  - 10.4.11.3 Rest of APAC: Electro-Optic in Naval Market, by End Use
    - 10.4.11.3.1 Rest of APAC: Electro-Optic in Naval Market, by Defense
    - 10.4.11.3.2 Rest of APAC: Electro-Optic in Naval Market, by Commercial
- 10.5 Middle East & Africa: Electro-Optic in Naval Market
  - 10.5.1 Middle East & Africa: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
  - 10.5.2 Middle East & Africa: Electro-Optic in Naval Market, By Technology
  - 10.5.3 Middle East & Africa: Electro-Optic in Naval Market, by Application
  - 10.5.4 Middle East & Africa: Electro-Optic in Naval Market, by End Use
  - 10.5.5 Middle East & Africa: Electro-Optic in Naval Market, by Key Country
  - 10.5.6 Saudi Arabia: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (Brazil\$ Million)
    - 10.5.6.1 Saudi Arabia: Electro-Optic in Naval Market, By Technology
    - 10.5.6.2 Saudi Arabia: Electro-Optic in Naval Market, by Application
    - 10.5.6.3 Saudi Arabia: Electro-Optic in Naval Market, by End Use
      - 10.5.6.3.1 Saudi Arabia: Electro-Optic in Naval Market, by Defense
      - 10.5.6.3.2 Saudi Arabia: Electro-Optic in Naval Market, by Commercial
  - 10.5.7 South Africa: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (Brazil\$ Million)

- 10.5.7.1 South Africa: Electro-Optic in Naval Market, By Technology
- 10.5.7.2 South Africa: Electro-Optic in Naval Market, by Application
- 10.5.7.3 South Africa: Electro-Optic in Naval Market, by End Use
  - 10.5.7.3.1 South Africa: Electro-Optic in Naval Market, by Defense
  - 10.5.7.3.2 South Africa: Electro-Optic in Naval Market, by Commercial
- 10.5.8 UAE: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (Brazil\$ Million)
  - 10.5.8.1 UAE: Electro-Optic in Naval Market, By Technology
  - 10.5.8.2 UAE: Electro-Optic in Naval Market, by Application
  - 10.5.8.3 UAE: Electro-Optic in Naval Market, by End Use
    - 10.5.8.3.1 UAE: Electro-Optic in Naval Market, by Defense
    - 10.5.8.3.2 UAE: Electro-Optic in Naval Market, by Commercial
- 10.5.9 Rest of MEA: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (Brazil\$ Million)
  - 10.5.9.1 Rest of MEA: Electro-Optic in Naval Market, By Technology
  - 10.5.9.2 Rest of MEA: Electro-Optic in Naval Market, by Application
  - 10.5.9.3 Rest of MEA: Electro-Optic in Naval Market, by End Use
    - 10.5.9.3.1 Rest of MEA: Electro-Optic in Naval Market, by Defense
    - 10.5.9.3.2 Rest of MEA: Electro-Optic in Naval Market, by Commercial
- 10.6 South America: Electro-Optic in Naval Market
  - 10.6.1 South America: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
    - 10.6.2 South America: Electro-Optic in Naval Market, By Technology
    - 10.6.3 South America: Electro-Optic in Naval Market, by Application
    - 10.6.4 South America: Electro-Optic in Naval Market, by End Use
    - 10.6.5 South America: Electro-Optic in Naval Market, by Key Country
  - 10.6.6 Brazil: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (Brazil\$ Million)
    - 10.6.6.1 Brazil: Electro-Optic in Naval Market, By Technology
    - 10.6.6.2 Brazil: Electro-Optic in Naval Market, by Application
    - 10.6.6.3 Brazil: Electro-Optic in Naval Market, by End Use
      - 10.6.6.3.1 Brazil: Electro-Optic in Naval Market, by Defense
      - 10.6.6.3.2 Brazil: Electro-Optic in Naval Market, by Commercial
  - 10.6.7 Argentina: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
    - 10.6.7.1 Argentina: Electro-Optic in Naval Market, By Technology
    - 10.6.7.2 Argentina: Electro-Optic in Naval Market, by Application
    - 10.6.7.3 Argentina: Electro-Optic in Naval Market, by End Use
      - 10.6.7.3.1 Argentina: Electro-Optic in Naval Market, by Defense

- 10.6.7.3.2 Argentina: Electro-Optic in Naval Market, by Commercial
- 10.6.8 Rest of SAM: Electro-Optic in Naval Market – Revenue and Forecast to 2028 (US\$ Million)
  - 10.6.8.1 Rest of SAM: Electro-Optic in Naval Market, By Technology
  - 10.6.8.2 Rest of SAM: Electro-Optic in Naval Market, by Application
  - 10.6.8.3 Rest of SAM: Electro-Optic in Naval Market, by End Use
    - 10.6.8.3.1 Rest of SAM: Electro-Optic in Naval Market, by Defense
    - 10.6.8.3.2 Rest of SAM: Electro-Optic in Naval Market, by Commercial

## **11. ELECTRO-OPTICS IN NAVAL MARKET - COVID-19 IMPACT ANALYSIS**

- 11.1 Overview
- 11.2 North America: Impact Assessment of COVID-19 Pandemic
- 11.3 Europe: Impact Assessment of COVID-19 Pandemic
- 11.4 Asia Pacific: Impact Assessment of COVID-19 Pandemic
- 11.5 MEA: Impact Assessment of COVID-19 Pandemic
- 11.6 South America Impact Assessment of COVID-19 Pandemic

## **12. INDUSTRY LANDSCAPE**

- 12.1 Overview
- 12.2 Market Initiative
- 12.3 Product Development
- 12.4 Mergers & Acquisitions

## **13. COMPANY PROFILES**

- 13.1 ASELSAN AS
  - 13.1.1 Key Facts
  - 13.1.2 Business Description
  - 13.1.3 Products and Services
  - 13.1.4 Financial Overview
  - 13.1.5 SWOT Analysis
  - 13.1.6 Key Developments
- 13.2 Tonbo Imaging India Pvt Ltd
  - 13.2.1 Key Facts
  - 13.2.2 Business Description
  - 13.2.3 Products and Services
  - 13.2.4 Financial Overview

- 13.2.5 SWOT Analysis
- 13.2.6 Key Developments
- 13.3 Chess Dynamics Ltd
  - 13.3.1 Key Facts
  - 13.3.2 Business Description
  - 13.3.3 Products and Services
  - 13.3.4 Financial Overview
  - 13.3.5 SWOT Analysis
  - 13.3.6 Key Developments
- 13.4 Elbit Systems Ltd
  - 13.4.1 Key Facts
  - 13.4.2 Business Description
  - 13.4.3 Products and Services
  - 13.4.4 Financial Overview
  - 13.4.5 SWOT Analysis
  - 13.4.6 Key Developments
- 13.5 Saab AB
  - 13.5.1 Key Facts
  - 13.5.2 Business Description
  - 13.5.3 Products and Services
  - 13.5.4 Financial Overview
  - 13.5.5 SWOT Analysis
  - 13.5.6 Key Developments
- 13.6 Safran SA
  - 13.6.1 Key Facts
  - 13.6.2 Business Description
  - 13.6.3 Products and Services
  - 13.6.4 Financial Overview
  - 13.6.5 SWOT Analysis
  - 13.6.6 Key Developments
- 13.7 L3Harris Technologies Inc
  - 13.7.1 Key Facts
  - 13.7.2 Business Description
  - 13.7.3 Products and Services
  - 13.7.4 Financial Overview
  - 13.7.5 SWOT Analysis
  - 13.7.6 Key Developments
- 13.8 Ultra Electronics Holdings Ltd
  - 13.8.1 Key Facts

- 13.8.2 Business Description
- 13.8.3 Products and Services
- 13.8.4 Financial Overview
- 13.8.5 SWOT Analysis
- 13.8.6 Key Developments
- 13.9 Israel Aerospace Industries Ltd
- 13.9.1 Key Facts
- 13.9.2 Business Description
- 13.9.3 Products and Services
- 13.9.4 Financial Overview
- 13.9.5 SWOT Analysis
- 13.9.6 Key Developments
- 13.10 Naval Group SA
- 13.10.1 Key Facts
- 13.10.2 Business Description
- 13.10.3 Products and Services
- 13.10.4 Financial Overview
- 13.10.5 SWOT Analysis
- 13.10.6 Key Developments

## **14. APPENDIX**

- 14.1 About The Insight Partners
- 14.2 Word Index

## List Of Tables

### LIST OF TABLES

Table 1. Global Electro-Optics in Naval Market Revenue and Forecast to 2028 (US\$ Million)

Table 2. North America: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 3. North America: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 4. North America: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 5. North America: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 6. North America: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 7. US: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 8. US: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 9. US: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 10. US: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 11. US: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 12. Canada: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 13. Canada: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 14. Canada: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 15. Canada: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 16. Canada: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 17. Mexico: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 18. Mexico: Electro-Optic in Naval Market, by Application – Revenue and

Forecast to 2028 (US\$ Million)

Table 19. Mexico: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 20. Mexico: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 21. Mexico: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 22. Europe: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 23. Europe: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 24. Europe: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 25. Europe: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 26. Europe: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 27. Germany: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 28. Germany: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 29. Germany: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 30. Germany: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 31. Germany: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 32. France: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 33. France: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 34. France: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 35. France: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 36. France: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 37. Italy: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)



Table 38. Italy: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 39. Italy: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 40. Italy: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 41. Italy: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 42. UK: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 43. UK: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 44. UK: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 45. UK: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 46. UK: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 47. Russia: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 48. Russia: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 49. Russia: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 50. Russia: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 51. Russia: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 52. Rest of Europe: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 53. Rest of Europe: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 54. Rest of Europe: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 55. Rest of Europe: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 56. Rest of Europe: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 57. Asia Pacific: Electro-Optic in Naval Market, By Technology– Revenue and

Forecast to 2028 (US\$ Million)

Table 58. Asia Pacific: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 59. Asia Pacific: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 60. Asia Pacific: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 61. Asia Pacific: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 62. Australia: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 63. Australia: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 64. Australia: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 65. Australia: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 66. Australia: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 67. China: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 68. China: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 69. China: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 70. China: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 71. China: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 72. India: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 73. India: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 74. India: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 75. India: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 76. India: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 77. Japan: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 78. Japan: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 79. Japan: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 80. Japan: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 81. Japan: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 82. South Korea: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 83. South Korea: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 84. South Korea: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 85. South Korea: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 86. South Korea: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 87. Rest of APAC: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 88. Rest of APAC: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 89. Rest of APAC: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 90. Rest of APAC: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 91. Rest of APAC: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 92. Middle East & Africa: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)

Table 93. Middle East & Africa: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)

Table 94. Middle East & Africa: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)

Table 95. Middle East & Africa: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 96. Middle East & Africa: Electro-Optic in Naval Market, by Commercial –

Revenue and Forecast to 2028 (US\$ Million)

Table 97. Saudi Arabia: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (Brazil\$ Million)

Table 98. Saudi Arabia: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 99. Saudi Arabia: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 100. Saudi Arabia: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 101. Saudi Arabia: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 102. South Africa: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (Brazil\$ Million)

Table 103. South Africa: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 104. South Africa: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 105. South Africa: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 106. South Africa: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 107. UAE: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (Brazil\$ Million)

Table 108. UAE: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 109. UAE: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 110. UAE: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

Table 111. UAE: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)

Table 112. Rest of MEA: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (Brazil\$ Million)

Table 113. Rest of MEA: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 114. Rest of MEA: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (Brazil\$ Million)

Table 115. Rest of MEA: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)

- Table 116. Rest of MEA: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)
- Table 117. South America: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)
- Table 118. South America: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)
- Table 119. South America: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)
- Table 120. South America: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)
- Table 121. South America: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)
- Table 122. Brazil: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (Brazil\$ Million)
- Table 123. Brazil: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (Brazil\$ Million)
- Table 124. Brazil: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (Brazil\$ Million)
- Table 125. Brazil: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)
- Table 126. Brazil: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)
- Table 127. Argentina: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)
- Table 128. Argentina: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)
- Table 129. Argentina: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)
- Table 130. Argentina: Electro-Optic in Naval Market, by Defense – Revenue and Forecast to 2028 (US\$ Million)
- Table 131. Argentina: Electro-Optic in Naval Market, by Commercial – Revenue and Forecast to 2028 (US\$ Million)
- Table 132. Rest of SAM: Electro-Optic in Naval Market, By Technology– Revenue and Forecast to 2028 (US\$ Million)
- Table 133. Rest of SAM: Electro-Optic in Naval Market, by Application – Revenue and Forecast to 2028 (US\$ Million)
- Table 134. Rest of SAM: Electro-Optic in Naval Market, by End Use – Revenue and Forecast to 2028 (US\$ Million)
- Table 135. Rest of SAM: Electro-Optic in Naval Market, by Def

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