

# **Dry Eye Treatment Devices Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2019-2029 Segmented By Technology (Broadband Light (BBL), Intense Pulsed Light (IPL), Meibomian Gland Expression (MGX), Combination (MGX+IPL)), By End use ((Hospitals & Clinics, Ambulatory Care Centers, Others), By Region and Competition**

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## **Abstracts**

Global Dry Eye Treatment Devices Market was valued at USD 282.14 Million in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 8.25% through 2029. Dry eye syndrome is a common ocular condition that affects millions of people worldwide. It occurs when the eyes do not produce enough tears or when the tears evaporate too quickly, leading to discomfort, irritation, and even vision problems. As the prevalence of dry eye continues to rise due to factors like increased screen time, environmental changes, and an aging population, the global dry eye treatment devices market has gained significant momentum. Dry eye syndrome is a widespread ocular condition, affecting people of all ages. As the global population continues to age and digital device usage becomes more prevalent, the incidence of dry eye is on the rise. The dry eye treatment devices market has seen significant advancements in recent years. New and innovative technologies are providing more effective and precise solutions for patients suffering from dry eye. Increased awareness about the importance of eye health and the availability of advanced dry eye treatment options has led to a greater number of patients seeking medical care, thus driving market growth. The future of the global dry eye treatment devices market looks promising. With ongoing research and development, we can expect to see even more advanced technologies and treatments that can provide better relief for patients. As the market continues to expand, it is likely to become more competitive, resulting in greater

innovation and lower costs for patients. Moreover, as the world becomes more aware of the importance of eye health and the prevalence of dry eye increases, it is crucial for healthcare providers to stay informed about the latest developments in this field. This will ensure that patients receive the most effective and appropriate treatments for their specific needs.

## Key Market Drivers

### Rising Aging Population is Driving the Global Dry Eye Treatment Devices Market

The global healthcare landscape is witnessing a profound shift as the world's population ages. The aging demographic is giving rise to various health challenges, one of which is the increasing prevalence of dry eye syndrome. Dry eye syndrome is a common condition characterized by a lack of sufficient moisture and lubrication on the surface of the eye, leading to discomfort and visual disturbances. As the elderly population grows, the demand for dry eye treatment devices is on the rise. The prevalence of dry eye syndrome increases with age, making it a significant concern in aging populations. As people grow older, several factors contribute to the development of dry eye. Aging can lead to a decrease in tear production by the lacrimal glands. This reduced tear production, known as aqueous deficiency, is a common cause of dry eye. Hormonal changes associated with aging, particularly in postmenopausal women, can disrupt the balance of tear composition and production. Many elderly individuals take medications that can have dry eye as a side effect, exacerbating the condition. Age-related conditions such as diabetes, arthritis, and thyroid disorders can increase the risk of dry eye.

### Increased Screen Time is Driving the Global Dry Eye Treatment Devices Market

In today's digital age, our lives are becoming increasingly intertwined with screens, whether for work, entertainment, or communication. While the convenience of digital devices has revolutionized the way we live and work, it has also given rise to a concerning issue – increased screen time and its adverse effects on eye health. One such consequence is the growing prevalence of dry eye syndrome, which has led to the expansion of the global dry eye treatment devices market. Factors driving the surge in screen time include remote work, online education, social media, streaming services, and video gaming, making digital screens an integral part of modern life. As a consequence, the global prevalence of dry eye has been steadily increasing, driving the demand for innovative dry eye treatment solutions.

Growing awareness about dry eye syndrome and its debilitating effects has led to an increase in patient visits to eye care professionals. Early diagnosis and treatment have become essential, contributing to the demand for dry eye treatment devices. The dry eye treatment devices market has benefited from continuous technological advancements, such as the development of cutting-edge devices that provide more effective and comfortable treatments. These include innovative methods for tear production stimulation, ocular surface hydration, and inflammation reduction. As the global population ages, the prevalence of dry eye syndrome increases. The elderly are more susceptible to this condition, and the aging demographic further propels the demand for dry eye treatment devices. The primary driver behind the growth of the dry eye treatment devices market is the increasing screen time. The digital age has made screen usage an integral part of everyday life, and the associated risk of dry eye drives the need for effective treatments.

## Key Market Challenges

### Complex Nature of Dry Eye Syndrome

Dry eye syndrome is not a one-size-fits-all condition. It can result from various factors, such as age, hormonal changes, environmental conditions, and underlying health issues. Treating dry eye effectively requires a personalized approach, which poses a challenge for device manufacturers. Developing devices that cater to the diverse needs of dry eye patients is a complex task, as what works for one individual may not work for another.

### Regulatory Hurdles

The dry eye treatment devices market is subject to strict regulatory requirements in many countries. Bringing new devices to market, especially those with innovative technologies, often involves navigating a lengthy and expensive regulatory process. Adhering to these regulations and ensuring the safety and efficacy of dry eye devices can be a significant challenge for both established companies and newcomers to the market.

### Competition

The market for dry eye treatment devices is becoming increasingly competitive, with many companies vying for a share of the pie. Established players and newcomers are continually developing new products and technologies to address dry eye syndrome.

This intense competition can make it difficult for companies to differentiate themselves and gain a strong foothold in the market.

### Cost and Accessibility

Many dry eye treatment devices are relatively expensive, which can pose accessibility issues for patients. Moreover, in some regions, health insurance coverage may not include these devices, leaving many patients struggling to afford treatment. Ensuring that dry eye treatment devices are affordable and accessible to a wide range of patients is a persistent challenge.

### Patient Awareness

One of the significant hurdles in the dry eye treatment devices market is the lack of awareness among the general public about dry eye syndrome and available treatment options. Patients often dismiss dry eye symptoms as minor inconveniences, and they may not seek treatment until their condition becomes severe. Raising awareness about dry eye and the potential benefits of treatment devices is crucial to expanding the market.

### Adherence and Patient Comfort

Dry eye treatment often requires consistent use of devices or products, such as eye drops, warm compresses, or eyelid cleaners. Ensuring that patients adhere to their prescribed treatment regimens can be a significant challenge. Additionally, some devices may cause discomfort or side effects, leading to poor patient compliance.

### Technological Advancements

While technological advancements are a driving force in the development of dry eye treatment devices, they also present challenges. Companies must stay up-to-date with the latest technologies to remain competitive. This involves significant research and development efforts and continuous adaptation to evolving consumer preferences and expectations.

### Key Market Trends

### Technological Advancements

In recent years, the global healthcare industry has witnessed a remarkable transformation due to rapid technological advancements. These innovations have significantly impacted various medical fields, including ophthalmology. One of the areas where technology has made a significant impact is in the treatment of dry eye syndrome. Dry eye is a common eye condition that affects millions of people worldwide, leading to discomfort and reduced quality of life. Technological advancements in the form of dry eye treatment devices have revolutionized the way this condition is managed and treated.

One of the significant advancements in dry eye treatment is the development of tear film analysis devices. These devices, often using non-invasive methods, can measure the quality and quantity of a patient's tears. This allows ophthalmologists to better understand the root cause of a patient's dry eye and tailor treatments accordingly. Pulsed light therapy, or intense pulsed light (IPL) therapy, is another innovative treatment for dry eye. IPL devices use controlled flashes of light to open and clear the meibomian glands, which are responsible for producing the oily layer of the tear film. This technology has shown promising results in alleviating dry eye symptoms. Traditional eye drops have been a standard treatment for dry eye. However, recent advancements have led to more effective and convenient delivery methods, such as preservative-free formulations and smart medication delivery devices. These ensure that the right amount of medication is delivered to the eye, improving treatment outcomes. Wearable technology is also making its mark in the dry eye treatment market. Smart glasses and contact lenses equipped with sensors can monitor eye moisture levels and blink patterns, providing real-time data to both patients and healthcare professionals. This enables more personalized treatment plans.

## Segmental Insights

## Technology Insights

Based on the category of technology, Meibomian Gland Expression (MGX) emerged as the dominant player in the global market for Dry Eye Treatment Devices in 2023. MGX technology offers a more targeted and effective approach to managing dry eye, especially when it is associated with MGD. This innovative technology is designed to restore the function of the Meibomian glands, which play a crucial role in producing the oil layer of the tear film, preventing excessive evaporation of tears and maintaining ocular comfort. By utilizing MGX devices, eye care professionals can gently express the clogged Meibomian glands, releasing the thickened oil and improving tear quality. MGX technology allows for precise and controlled expression of Meibomian glands, ensuring

that the procedure is gentle and minimally invasive. By addressing the root cause of MGD, MGX technology helps improve the quality of the tear film, providing more sustainable relief from dry eye symptoms. Unlike traditional treatments that offer temporary relief, MGX technology provides longer-lasting benefits, reducing the need for frequent eye drops. Patients often find MGX treatments to be comfortable and tolerable, making it a preferred choice for those seeking dry eye relief. MGX technology has gained widespread acceptance among eye care professionals, leading to its dominance in the global dry eye treatment market.

### End Use Insights

The Hospitals & Clinics segment is projected to experience rapid growth during the forecast period. Hospitals and clinics offer a level of expertise and specialized care that is essential in the diagnosis and treatment of dry eye syndrome. Ophthalmologists, optometrists, and other eye care professionals in these settings have access to advanced diagnostic equipment and can provide tailored treatment plans for patients. Hospitals and clinics can offer comprehensive services, including surgical options for severe cases of dry eye syndrome. This includes procedures like punctal plugs, amniotic membrane transplantation, and meibomian gland probing, which can effectively address the underlying causes of dry eye. These healthcare facilities are equipped with the latest dry eye treatment devices and technologies, enabling patients to benefit from cutting-edge treatment options. These may include IPL therapy devices, LipiFlow systems, and tear osmolarity measurement equipment.

### Regional Insights

North America emerged as the dominant player in the global Dry Eye Treatment Devices market in 2023, holding the largest market share in terms of value. North America, particularly the United States, is home to a thriving medical technology industry. The continuous research and development efforts in the region have led to the creation of cutting-edge dry eye treatment devices. This technological edge has made North America a global leader in the market. Dry eye syndrome is a well-recognized condition in North America, and its awareness is higher than in many other regions. This awareness drives demand for dry eye treatment devices as more people seek professional help to manage their symptoms.

### Key Market Players

MiBo Medical Group

Sight Sciences

Lumenis Be Ltd.

ESW Vision

Johnson & Johnson Vision Care

Alcon, Inc

#### Report Scope:

In this report, the Global Dry Eye Treatment Devices Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Dry Eye Treatment Devices Market, By Technology:

Broadband Light (BBL)

Intense Pulsed Light (IPL)

Meibomian Gland Expression (MGX)

Combination (MGX+IPL)

#### Dry Eye Treatment Devices Market, By End Use:

Hospitals & Clinics

Ambulatory Care Centers

Others

#### Dry Eye Treatment Devices Market, By Region:

North America



United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia



Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Dry Eye Treatment Devices Market.

Available Customizations:

Global Dry Eye Treatment Devices market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

1. Product Overview
  - 1.1. Market Definition
  - 1.2. Scope of the Market
    - 1.2.1. Markets Covered
    - 1.2.2. Years Considered for Study
    - 1.2.3. Key Market Segmentations

## 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

## 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

## 4. GLOBAL DRY EYE TREATMENT DEVICES MARKET OUTLOOK

- 4.1. Market Size & Forecast
  - 4.1.1. By Value
- 4.2. Market Share & Forecast
  - 4.2.1. By Technology (Broadband Light (BBL), Intense Pulsed Light (IPL), Meibomian Gland Expression (MGX), Combination (MGX+IPL))
  - 4.2.2. By End use (Hospitals & Clinics, Ambulatory Care Centers, Others)
  - 4.2.3. By Region
  - 4.2.4. By Company (2023)
- 4.3. Market Map
  - 4.3.1. By Technology

4.3.2. By End use

4.3.3. By Region

## **5. ASIA PACIFIC DRY EYE TREATMENT DEVICES MARKET OUTLOOK**

5.1. Market Size & Forecast

5.1.1. By Value

5.2. Market Share & Forecast

5.2.1. By Technology

5.2.2. By End use

5.2.3. By Country

5.3. Asia Pacific: Country Analysis

5.3.1. China Dry Eye Treatment Devices Market Outlook

5.3.1.1. Market Size & Forecast

5.3.1.1.1. By Value

5.3.1.2. Market Share & Forecast

5.3.1.2.1. By Technology

5.3.1.2.2. By End use

5.3.2. India Dry Eye Treatment Devices Market Outlook

5.3.2.1. Market Size & Forecast

5.3.2.1.1. By Value

5.3.2.2. Market Share & Forecast

5.3.2.2.1. By Technology

5.3.2.2.2. By End use

5.3.3. Australia Dry Eye Treatment Devices Market Outlook

5.3.3.1. Market Size & Forecast

5.3.3.1.1. By Value

5.3.3.2. Market Share & Forecast

5.3.3.2.1. By Technology

5.3.3.2.2. By End use

5.3.4. Japan Dry Eye Treatment Devices Market Outlook

5.3.4.1. Market Size & Forecast

5.3.4.1.1. By Value

5.3.4.2. Market Share & Forecast

5.3.4.2.1. By Technology

5.3.4.2.2. By End use

5.3.5. South Korea Dry Eye Treatment Devices Market Outlook

5.3.5.1. Market Size & Forecast

5.3.5.1.1. By Value

#### 5.3.5.2. Market Share & Forecast

##### 5.3.5.2.1. By Technology

##### 5.3.5.2.2. By End use

## **6. EUROPE DRY EYE TREATMENT DEVICES MARKET OUTLOOK**

### 6.1. Market Size & Forecast

#### 6.1.1. By Value

### 6.2. Market Share & Forecast

#### 6.2.1. By Technology

#### 6.2.2. By End use

#### 6.2.3. By Country

### 6.3. Europe: Country Analysis

#### 6.3.1. France Dry Eye Treatment Devices Market Outlook

##### 6.3.1.1. Market Size & Forecast

###### 6.3.1.1.1. By Value

##### 6.3.1.2. Market Share & Forecast

###### 6.3.1.2.1. By Technology

###### 6.3.1.2.2. By End use

#### 6.3.2. Germany Dry Eye Treatment Devices Market Outlook

##### 6.3.2.1. Market Size & Forecast

###### 6.3.2.1.1. By Value

##### 6.3.2.2. Market Share & Forecast

###### 6.3.2.2.1. By Technology

###### 6.3.2.2.2. By End use

#### 6.3.3. Spain Dry Eye Treatment Devices Market Outlook

##### 6.3.3.1. Market Size & Forecast

###### 6.3.3.1.1. By Value

##### 6.3.3.2. Market Share & Forecast

###### 6.3.3.2.1. By Technology

###### 6.3.3.2.2. By End use

#### 6.3.4. Italy Dry Eye Treatment Devices Market Outlook

##### 6.3.4.1. Market Size & Forecast

###### 6.3.4.1.1. By Value

##### 6.3.4.2. Market Share & Forecast

###### 6.3.4.2.1. By Technology

###### 6.3.4.2.2. By End use

#### 6.3.5. United Kingdom Dry Eye Treatment Devices Market Outlook

##### 6.3.5.1. Market Size & Forecast

6.3.5.1.1. By Value

6.3.5.2. Market Share & Forecast

6.3.5.2.1. By Technology

6.3.5.2.2. By End use

## **7. NORTH AMERICA DRY EYE TREATMENT DEVICES MARKET OUTLOOK**

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Technology

7.2.2. By End use

7.2.3. By Country

7.3. North America: Country Analysis

7.3.1. United States Dry Eye Treatment Devices Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Technology

7.3.1.2.2. By End use

7.3.2. Mexico Dry Eye Treatment Devices Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Technology

7.3.2.2.2. By End use

7.3.3. Canada Dry Eye Treatment Devices Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Technology

7.3.3.2.2. By End use

## **8. SOUTH AMERICA DRY EYE TREATMENT DEVICES MARKET OUTLOOK**

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Technology

- 8.2.2. By End use
- 8.2.3. By Country
- 8.3. South America: Country Analysis
  - 8.3.1. Brazil Dry Eye Treatment Devices Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Technology
      - 8.3.1.2.2. By End use
  - 8.3.2. Argentina Dry Eye Treatment Devices Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Technology
      - 8.3.2.2.2. By End use
  - 8.3.3. Colombia Dry Eye Treatment Devices Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value
    - 8.3.3.2. Market Share & Forecast
      - 8.3.3.2.1. By Technology
      - 8.3.3.2.2. By End use

## **9. MIDDLE EAST AND AFRICA DRY EYE TREATMENT DEVICES MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Technology
  - 9.2.2. By End use
  - 9.2.3. By Country
- 9.3. MEA: Country Analysis
  - 9.3.1. South Africa Dry Eye Treatment Devices Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Technology
      - 9.3.1.2.2. By End use
  - 9.3.2. Saudi Arabia Dry Eye Treatment Devices Market Outlook

#### 9.3.2.1. Market Size & Forecast

##### 9.3.2.1.1. By Value

#### 9.3.2.2. Market Share & Forecast

##### 9.3.2.2.1. By Technology

##### 9.3.2.2.2. By End use

#### 9.3.3. UAE Dry Eye Treatment Devices Market Outlook

##### 9.3.3.1. Market Size & Forecast

##### 9.3.3.1.1. By Value

##### 9.3.3.2. Market Share & Forecast

##### 9.3.3.2.1. By Technology

##### 9.3.3.2.2. By End use

## **10. MARKET DYNAMICS**

### 10.1. Drivers

### 10.2. Challenges

## **11. MARKET TRENDS & DEVELOPMENTS**

### 11.1. Recent Developments

### 11.2. Product Launches

### 11.3. Mergers & Acquisitions

## **12. GLOBAL DRY EYE TREATMENT DEVICES MARKET: SWOT ANALYSIS**

## **13. PORTER'S FIVE FORCES ANALYSIS**

### 13.1. Competition in the Industry

### 13.2. Potential of New Entrants

### 13.3. Power of Suppliers

### 13.4. Power of Customers

### 13.5. Threat of Substitute Product

## **14. COMPETITIVE LANDSCAPE**

### 14.1. MiBo Medical Group

#### 14.1.1. Business Overview

#### 14.1.2. Company Snapshot

#### 14.1.3. Product & Services



- 14.1.4. Financials (In case of listed)
- 14.1.5. Recent Developments
- 14.1.6. SWOT Analysis
- 14.2. Sight Sciences
- 14.3. Lumenis Be Ltd.
- 14.4. ESW Vision
- 14.5. Johnson & Johnson Vision Care
- 14.6. Alcon, Inc

## **15. STRATEGIC RECOMMENDATIONS**

## **16. ABOUT US & DISCLAIMER**

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