

# Global Thin-Film Holographic Optical Elements (HOEs) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Thin-Film Holographic Optical Elements (HOEs) market size is expected to reach \$ 1899 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Thin-film Holographic Optical Elements (HOEs) are optical devices featuring micro- and nano-scale diffractive structures fabricated on thin-film substrates using processes such as holographic exposure, nanoimprinting, or lithography. Capable of performing functions such as beam splitting, deflection, collimation, diffusion, imaging, and waveguide coupling, they are widely utilized in AR displays, Head-Up Displays (HUDs), sensing systems, and laser optics.

The upstream supply chain encompasses photosensitive materials, photopolymers, PET/PC/TAC films, glass substrates, nanoimprinting resins, laser exposure equipment, and precision molds. Downstream applications span fields including AR glasses, automotive HUDs, consumer electronics, security sensing, medical imaging, and laser displays.

Globally, the thin-film HOE market commands an average unit price of \$128 per square meter, with global sales volume reaching approximately 8.5 million square meters. The industry's annual production capacity ranges from 9 million to 16 million square meters, maintaining a profit margin of approximately 25%.

Moving forward, the global thin-film HOE market will be driven by demand for AR near-eye displays, smart automotive HUDs, spatial light modulation, and lightweight, compact optical systems. Consequently, the technology is evolving toward higher transmittance,

greater diffraction efficiency, wider fields of view, lower chromatic dispersion, and enhanced mass-production capabilities. As waveguide displays, holographic projection, and 3D sensing technologies accelerate their commercial deployment, thin-film HOEs are poised to gradually replace certain traditional prism, lens, and mirror-based solutions, thereby enhancing the lightweight design and integration levels of end-user devices. Future competitive efforts will focus primarily on material stability, the precision of mass replication, yield control, environmental reliability, and the capability for collaborative design with display modules and sensor systems.

This report studies the global Thin-Film Holographic Optical Elements (HOEs) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thin-Film Holographic Optical Elements (HOEs) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thin-Film Holographic Optical Elements (HOEs) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thin-Film Holographic Optical Elements (HOEs) total production and demand, 2021-2032, (K Sqm)

Global Thin-Film Holographic Optical Elements (HOEs) total production value, 2021-2032, (USD Million)

Global Thin-Film Holographic Optical Elements (HOEs) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Thin-Film Holographic Optical Elements (HOEs) consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Thin-Film Holographic Optical Elements (HOEs) domestic production, consumption, key domestic manufacturers and share

Global Thin-Film Holographic Optical Elements (HOEs) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Thin-Film Holographic Optical Elements (HOEs) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Thin-Film Holographic Optical Elements (HOEs) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Thin-Film Holographic Optical Elements

(HOEs) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ceres Holographics, Covestro, DigiLens, Luminit, ZEISS, HOLOEYE Photonics, Holographix, Snap, Dispelix, TruLife Optics, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thin-Film Holographic Optical Elements (HOEs) market

Detailed Segmentation:

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

Global Thin-Film Holographic Optical Elements (HOEs) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Thin-Film Holographic Optical Elements (HOEs) Market, Segmentation by Type:

Transmission HOE

Reflection HOE

Others

## Global Thin-Film Holographic Optical Elements (HOEs) Market, Segmentation by Film Structure:

Single-Layer Film HOE

Multi-Layer Film HOE

Laminated Film HOE

Flexible Film HOE

Rigid-Substrate Film HOE

## Global Thin-Film Holographic Optical Elements (HOEs) Market, Segmentation by Manufacturing Process:

Holographic Exposure HOE

Nanoimprint HOE

Photolithography HOE

Laser Interference Lithography HOE

Roll-to-Roll Replicated HOE

## Global Thin-Film Holographic Optical Elements (HOEs) Market, Segmentation by Application:

AR Waveguide

HUD

Laser Display

3D Sensing

Optical Communication

Medical Imaging

Others

#### Companies Profiled:

Ceres Holographics

Covestro

DigiLens

Luminit

ZEISS

HOLOEYE Photonics

Holographix

Snap

Dispelix

TruLife Optics

Crystal-Optech

Goertek

Sunny Optical

Key Questions Answered:

1. How big is the global Thin-Film Holographic Optical Elements (HOEs) market?
2. What is the demand of the global Thin-Film Holographic Optical Elements (HOEs) market?
3. What is the year over year growth of the global Thin-Film Holographic Optical Elements (HOEs) market?
4. What is the production and production value of the global Thin-Film Holographic Optical Elements (HOEs) market?
5. Who are the key producers in the global Thin-Film Holographic Optical Elements (HOEs) market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Thin-Film Holographic Optical Elements (HOEs) Introduction
- 1.2 World Thin-Film Holographic Optical Elements (HOEs) Supply & Forecast
  - 1.2.1 World Thin-Film Holographic Optical Elements (HOEs) Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
  - 1.2.3 World Thin-Film Holographic Optical Elements (HOEs) Pricing Trends (2021-2032)
- 1.3 World Thin-Film Holographic Optical Elements (HOEs) Production by Region (Based on Production Site)
  - 1.3.1 World Thin-Film Holographic Optical Elements (HOEs) Production Value by Region (2021-2032)
  - 1.3.2 World Thin-Film Holographic Optical Elements (HOEs) Production by Region (2021-2032)
  - 1.3.3 World Thin-Film Holographic Optical Elements (HOEs) Average Price by Region (2021-2032)
  - 1.3.4 North America Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
  - 1.3.5 Europe Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
  - 1.3.6 China Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
  - 1.3.7 Japan Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
  - 1.3.8 South Korea Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
  - 1.3.9 Southeast Asia Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
  - 1.3.10 China Taiwan Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Thin-Film Holographic Optical Elements (HOEs) Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Thin-Film Holographic Optical Elements (HOEs) Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Thin-Film Holographic Optical Elements (HOEs) Demand (2021-2032)
- 2.2 World Thin-Film Holographic Optical Elements (HOEs) Consumption by Region

2.2.1 World Thin-Film Holographic Optical Elements (HOEs) Consumption by Region (2021-2026)

2.2.2 World Thin-Film Holographic Optical Elements (HOEs) Consumption Forecast by Region (2027-2032)

2.3 United States Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032)

2.4 China Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032)

2.5 Europe Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032)

2.6 Japan Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032)

2.7 South Korea Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032)

2.8 ASEAN Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032)

2.9 India Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Thin-Film Holographic Optical Elements (HOEs) Production Value by Manufacturer (2021-2026)

3.2 World Thin-Film Holographic Optical Elements (HOEs) Production by Manufacturer (2021-2026)

3.3 World Thin-Film Holographic Optical Elements (HOEs) Average Price by Manufacturer (2021-2026)

3.4 Thin-Film Holographic Optical Elements (HOEs) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Thin-Film Holographic Optical Elements (HOEs) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Thin-Film Holographic Optical Elements (HOEs) in 2025

3.5.3 Global Concentration Ratios (CR8) for Thin-Film Holographic Optical Elements (HOEs) in 2025

3.6 Thin-Film Holographic Optical Elements (HOEs) Market: Overall Company Footprint Analysis

3.6.1 Thin-Film Holographic Optical Elements (HOEs) Market: Region Footprint

3.6.2 Thin-Film Holographic Optical Elements (HOEs) Market: Company Product Type Footprint

3.6.3 Thin-Film Holographic Optical Elements (HOEs) Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Production Value Comparison

4.1.1 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Production Comparison

4.2.1 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Consumption Comparison

4.3.1 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Thin-Film Holographic Optical Elements (HOEs)

Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Thin-Film Holographic Optical Elements (HOEs)

Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Thin-Film Holographic Optical Elements

(HOEs) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Thin-Film Holographic Optical Elements

(HOEs) Production (2021-2026)

4.5 China Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers and Market Share

4.5.1 China Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value (2021-2026)

4.5.3 China Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production (2021-2026)

4.6 Rest of World Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Thin-Film Holographic Optical Elements (HOEs) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Transmission HOE

5.2.2 Reflection HOE

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Thin-Film Holographic Optical Elements (HOEs) Production by Type (2021-2032)

5.3.2 World Thin-Film Holographic Optical Elements (HOEs) Production Value by Type (2021-2032)

5.3.3 World Thin-Film Holographic Optical Elements (HOEs) Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY FILM STRUCTURE**

6.1 World Thin-Film Holographic Optical Elements (HOEs) Market Size Overview by Film Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Film Structure

6.2.1 Single-Layer Film HOE

6.2.2 Multi-Layer Film HOE

6.2.3 Laminated Film HOE

6.2.4 Flexible Film HOE

6.2.5 Rigid-Substrate Film HOE

6.3 Market Segment by Film Structure

6.3.1 World Thin-Film Holographic Optical Elements (HOEs) Production by Film

Structure (2021-2032)

6.3.2 World Thin-Film Holographic Optical Elements (HOEs) Production Value by Film Structure (2021-2032)

6.3.3 World Thin-Film Holographic Optical Elements (HOEs) Average Price by Film Structure (2021-2032)

## **7 MARKET ANALYSIS BY MANUFACTURING PROCESS**

7.1 World Thin-Film Holographic Optical Elements (HOEs) Market Size Overview by Manufacturing Process: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Manufacturing Process

7.2.1 Holographic Exposure HOE

7.2.2 Nanoimprint HOE

7.2.3 Photolithography HOE

7.2.4 Laser Interference Lithography HOE

7.2.5 Roll-to-Roll Replicated HOE

7.3 Market Segment by Manufacturing Process

7.3.1 World Thin-Film Holographic Optical Elements (HOEs) Production by Manufacturing Process (2021-2032)

7.3.2 World Thin-Film Holographic Optical Elements (HOEs) Production Value by Manufacturing Process (2021-2032)

7.3.3 World Thin-Film Holographic Optical Elements (HOEs) Average Price by Manufacturing Process (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Thin-Film Holographic Optical Elements (HOEs) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 AR Waveguide

8.2.2 HUD

8.2.3 Laser Display

8.2.4 3D Sensing

8.2.5 Optical Communication

8.2.6 Medical Imaging

8.2.7 Others

8.3 Market Segment by Application

8.3.1 World Thin-Film Holographic Optical Elements (HOEs) Production by Application (2021-2032)

8.3.2 World Thin-Film Holographic Optical Elements (HOEs) Production Value by Application (2021-2032)

8.3.3 World Thin-Film Holographic Optical Elements (HOEs) Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

### **9.1 Ceres Holographics**

#### **9.1.1 Ceres Holographics Details**

#### **9.1.2 Ceres Holographics Major Business**

#### **9.1.3 Ceres Holographics Thin-Film Holographic Optical Elements (HOEs) Product and Services**

#### **9.1.4 Ceres Holographics Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)**

#### **9.1.5 Ceres Holographics Recent Developments/Updates**

#### **9.1.6 Ceres Holographics Competitive Strengths & Weaknesses**

### **9.2 Covestro**

#### **9.2.1 Covestro Details**

#### **9.2.2 Covestro Major Business**

#### **9.2.3 Covestro Thin-Film Holographic Optical Elements (HOEs) Product and Services**

#### **9.2.4 Covestro Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)**

#### **9.2.5 Covestro Recent Developments/Updates**

#### **9.2.6 Covestro Competitive Strengths & Weaknesses**

### **9.3 DigiLens**

#### **9.3.1 DigiLens Details**

#### **9.3.2 DigiLens Major Business**

#### **9.3.3 DigiLens Thin-Film Holographic Optical Elements (HOEs) Product and Services**

#### **9.3.4 DigiLens Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)**

#### **9.3.5 DigiLens Recent Developments/Updates**

#### **9.3.6 DigiLens Competitive Strengths & Weaknesses**

### **9.4 Luminit**

#### **9.4.1 Luminit Details**

#### **9.4.2 Luminit Major Business**

#### **9.4.3 Luminit Thin-Film Holographic Optical Elements (HOEs) Product and Services**

#### **9.4.4 Luminit Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)**

#### **9.4.5 Luminit Recent Developments/Updates**

#### 9.4.6 Luminix Competitive Strengths & Weaknesses

### 9.5 ZEISS

#### 9.5.1 ZEISS Details

#### 9.5.2 ZEISS Major Business

#### 9.5.3 ZEISS Thin-Film Holographic Optical Elements (HOEs) Product and Services

#### 9.5.4 ZEISS Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.5.5 ZEISS Recent Developments/Updates

#### 9.5.6 ZEISS Competitive Strengths & Weaknesses

### 9.6 HOLOEYE Photonics

#### 9.6.1 HOLOEYE Photonics Details

#### 9.6.2 HOLOEYE Photonics Major Business

#### 9.6.3 HOLOEYE Photonics Thin-Film Holographic Optical Elements (HOEs) Product and Services

#### 9.6.4 HOLOEYE Photonics Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.6.5 HOLOEYE Photonics Recent Developments/Updates

#### 9.6.6 HOLOEYE Photonics Competitive Strengths & Weaknesses

### 9.7 Holographix

#### 9.7.1 Holographix Details

#### 9.7.2 Holographix Major Business

#### 9.7.3 Holographix Thin-Film Holographic Optical Elements (HOEs) Product and Services

#### 9.7.4 Holographix Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.7.5 Holographix Recent Developments/Updates

#### 9.7.6 Holographix Competitive Strengths & Weaknesses

### 9.8 Snap

#### 9.8.1 Snap Details

#### 9.8.2 Snap Major Business

#### 9.8.3 Snap Thin-Film Holographic Optical Elements (HOEs) Product and Services

#### 9.8.4 Snap Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.8.5 Snap Recent Developments/Updates

#### 9.8.6 Snap Competitive Strengths & Weaknesses

### 9.9 Dispelix

#### 9.9.1 Dispelix Details

#### 9.9.2 Dispelix Major Business

#### 9.9.3 Dispelix Thin-Film Holographic Optical Elements (HOEs) Product and Services

- 9.9.4 Dispelix Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Dispelix Recent Developments/Updates
- 9.9.6 Dispelix Competitive Strengths & Weaknesses
- 9.10 TruLife Optics
  - 9.10.1 TruLife Optics Details
  - 9.10.2 TruLife Optics Major Business
  - 9.10.3 TruLife Optics Thin-Film Holographic Optical Elements (HOEs) Product and Services
  - 9.10.4 TruLife Optics Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 TruLife Optics Recent Developments/Updates
  - 9.10.6 TruLife Optics Competitive Strengths & Weaknesses
- 9.11 Crystal-Optech
  - 9.11.1 Crystal-Optech Details
  - 9.11.2 Crystal-Optech Major Business
  - 9.11.3 Crystal-Optech Thin-Film Holographic Optical Elements (HOEs) Product and Services
  - 9.11.4 Crystal-Optech Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Crystal-Optech Recent Developments/Updates
  - 9.11.6 Crystal-Optech Competitive Strengths & Weaknesses
- 9.12 Goertek
  - 9.12.1 Goertek Details
  - 9.12.2 Goertek Major Business
  - 9.12.3 Goertek Thin-Film Holographic Optical Elements (HOEs) Product and Services
  - 9.12.4 Goertek Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Goertek Recent Developments/Updates
  - 9.12.6 Goertek Competitive Strengths & Weaknesses
- 9.13 Sunny Optical
  - 9.13.1 Sunny Optical Details
  - 9.13.2 Sunny Optical Major Business
  - 9.13.3 Sunny Optical Thin-Film Holographic Optical Elements (HOEs) Product and Services
  - 9.13.4 Sunny Optical Thin-Film Holographic Optical Elements (HOEs) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Sunny Optical Recent Developments/Updates
  - 9.13.6 Sunny Optical Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Thin-Film Holographic Optical Elements (HOEs) Industry Chain
- 10.2 Thin-Film Holographic Optical Elements (HOEs) Upstream Analysis
  - 10.2.1 Thin-Film Holographic Optical Elements (HOEs) Core Raw Materials
  - 10.2.2 Main Manufacturers of Thin-Film Holographic Optical Elements (HOEs) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Thin-Film Holographic Optical Elements (HOEs) Production Mode
- 10.6 Thin-Film Holographic Optical Elements (HOEs) Procurement Model
- 10.7 Thin-Film Holographic Optical Elements (HOEs) Industry Sales Model and Sales Channels
  - 10.7.1 Thin-Film Holographic Optical Elements (HOEs) Sales Model
  - 10.7.2 Thin-Film Holographic Optical Elements (HOEs) Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Region (2021-2026)

Table 5. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Region (2027-2032)

Table 6. World Thin-Film Holographic Optical Elements (HOEs) Production by Region (2021-2026) & (K Sqm)

Table 7. World Thin-Film Holographic Optical Elements (HOEs) Production by Region (2027-2032) & (K Sqm)

Table 8. World Thin-Film Holographic Optical Elements (HOEs) Production Market Share by Region (2021-2026)

Table 9. World Thin-Film Holographic Optical Elements (HOEs) Production Market Share by Region (2027-2032)

Table 10. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Thin-Film Holographic Optical Elements (HOEs) Major Market Trends

Table 13. World Thin-Film Holographic Optical Elements (HOEs) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sqm)

Table 14. World Thin-Film Holographic Optical Elements (HOEs) Consumption by Region (2021-2026) & (K Sqm)

Table 15. World Thin-Film Holographic Optical Elements (HOEs) Consumption Forecast by Region (2027-2032) & (K Sqm)

Table 16. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Thin-Film Holographic Optical Elements (HOEs) Producers in 2025

Table 18. World Thin-Film Holographic Optical Elements (HOEs) Production by Manufacturer (2021-2026) & (K Sqm)

Table 19. Production Market Share of Key Thin-Film Holographic Optical Elements (HOEs) Producers in 2025

Table 20. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Thin-Film Holographic Optical Elements (HOEs) Company Evaluation Quadrant

Table 22. World Thin-Film Holographic Optical Elements (HOEs) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Thin-Film Holographic Optical Elements (HOEs) Production Site of Key Manufacturer

Table 24. Thin-Film Holographic Optical Elements (HOEs) Market: Company Product Type Footprint

Table 25. Thin-Film Holographic Optical Elements (HOEs) Market: Company Product Application Footprint

Table 26. Thin-Film Holographic Optical Elements (HOEs) Competitive Factors

Table 27. Thin-Film Holographic Optical Elements (HOEs) New Entrant and Capacity Expansion Plans

Table 28. Thin-Film Holographic Optical Elements (HOEs) Mergers & Acquisitions Activity

Table 29. United States VS China Thin-Film Holographic Optical Elements (HOEs) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thin-Film Holographic Optical Elements (HOEs) Production Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 31. United States VS China Thin-Film Holographic Optical Elements (HOEs) Consumption Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 32. United States Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production (2021-2026) & (K Sqm)

Table 36. United States Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Market Share (2021-2026)

Table 37. China Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production, (2021-2026) & (K Sqm)

Table 41. China Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Market Share (2021-2026)

Table 42. Rest of World Based Thin-Film Holographic Optical Elements (HOEs) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production, (2021-2026) & (K Sqm)

Table 46. Rest of World Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Market Share (2021-2026)

Table 47. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thin-Film Holographic Optical Elements (HOEs) Production by Type (2021-2026) & (K Sqm)

Table 49. World Thin-Film Holographic Optical Elements (HOEs) Production by Type (2027-2032) & (K Sqm)

Table 50. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Type (2021-2026) & (US\$/Sq m)

Table 53. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Type (2027-2032) & (US\$/Sq m)

Table 54. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Film Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Thin-Film Holographic Optical Elements (HOEs) Production by Film Structure (2021-2026) & (K Sqm)

Table 56. World Thin-Film Holographic Optical Elements (HOEs) Production by Film Structure (2027-2032) & (K Sqm)

Table 57. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Film Structure (2021-2026) & (USD Million)

Table 58. World Thin-Film Holographic Optical Elements (HOEs) Production Value by

**Film Structure (2027-2032) & (USD Million)**

Table 59. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Film Structure (2021-2026) & (US\$/Sq m)

Table 60. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Film Structure (2027-2032) & (US\$/Sq m)

Table 61. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Table 62. World Thin-Film Holographic Optical Elements (HOEs) Production by Manufacturing Process (2021-2026) & (K Sqm)

Table 63. World Thin-Film Holographic Optical Elements (HOEs) Production by Manufacturing Process (2027-2032) & (K Sqm)

Table 64. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Manufacturing Process (2021-2026) & (USD Million)

Table 65. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Manufacturing Process (2027-2032) & (USD Million)

Table 66. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Manufacturing Process (2021-2026) & (US\$/Sq m)

Table 67. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Manufacturing Process (2027-2032) & (US\$/Sq m)

Table 68. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Thin-Film Holographic Optical Elements (HOEs) Production by Application (2021-2026) & (K Sqm)

Table 70. World Thin-Film Holographic Optical Elements (HOEs) Production by Application (2027-2032) & (K Sqm)

Table 71. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Application (2021-2026) & (US\$/Sq m)

Table 74. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Application (2027-2032) & (US\$/Sq m)

Table 75. Ceres Holographics Basic Information, Manufacturing Base and Competitors

Table 76. Ceres Holographics Major Business

Table 77. Ceres Holographics Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 78. Ceres Holographics Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 79. Ceres Holographics Recent Developments/Updates

Table 80. Ceres Holographics Competitive Strengths & Weaknesses

Table 81. Covestro Basic Information, Manufacturing Base and Competitors

Table 82. Covestro Major Business

Table 83. Covestro Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 84. Covestro Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Covestro Recent Developments/Updates

Table 86. Covestro Competitive Strengths & Weaknesses

Table 87. DigiLens Basic Information, Manufacturing Base and Competitors

Table 88. DigiLens Major Business

Table 89. DigiLens Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 90. DigiLens Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. DigiLens Recent Developments/Updates

Table 92. DigiLens Competitive Strengths & Weaknesses

Table 93. Luminit Basic Information, Manufacturing Base and Competitors

Table 94. Luminit Major Business

Table 95. Luminit Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 96. Luminit Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Luminit Recent Developments/Updates

Table 98. Luminit Competitive Strengths & Weaknesses

Table 99. ZEISS Basic Information, Manufacturing Base and Competitors

Table 100. ZEISS Major Business

Table 101. ZEISS Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 102. ZEISS Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ZEISS Recent Developments/Updates

Table 104. ZEISS Competitive Strengths & Weaknesses

Table 105. HOLOEYE Photonics Basic Information, Manufacturing Base and

## Competitors

Table 106. HOLOEYE Photonics Major Business

Table 107. HOLOEYE Photonics Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 108. HOLOEYE Photonics Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. HOLOEYE Photonics Recent Developments/Updates

Table 110. HOLOEYE Photonics Competitive Strengths & Weaknesses

Table 111. Holographix Basic Information, Manufacturing Base and Competitors

Table 112. Holographix Major Business

Table 113. Holographix Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 114. Holographix Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Holographix Recent Developments/Updates

Table 116. Holographix Competitive Strengths & Weaknesses

Table 117. Snap Basic Information, Manufacturing Base and Competitors

Table 118. Snap Major Business

Table 119. Snap Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 120. Snap Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Snap Recent Developments/Updates

Table 122. Snap Competitive Strengths & Weaknesses

Table 123. Dispelix Basic Information, Manufacturing Base and Competitors

Table 124. Dispelix Major Business

Table 125. Dispelix Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 126. Dispelix Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Dispelix Recent Developments/Updates

Table 128. Dispelix Competitive Strengths & Weaknesses

Table 129. TruLife Optics Basic Information, Manufacturing Base and Competitors

Table 130. TruLife Optics Major Business

Table 131. TruLife Optics Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 132. TruLife Optics Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. TruLife Optics Recent Developments/Updates

Table 134. TruLife Optics Competitive Strengths & Weaknesses

Table 135. Crystal-Optech Basic Information, Manufacturing Base and Competitors

Table 136. Crystal-Optech Major Business

Table 137. Crystal-Optech Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 138. Crystal-Optech Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Crystal-Optech Recent Developments/Updates

Table 140. Crystal-Optech Competitive Strengths & Weaknesses

Table 141. Goertek Basic Information, Manufacturing Base and Competitors

Table 142. Goertek Major Business

Table 143. Goertek Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 144. Goertek Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Goertek Recent Developments/Updates

Table 146. Goertek Competitive Strengths & Weaknesses

Table 147. Sunny Optical Basic Information, Manufacturing Base and Competitors

Table 148. Sunny Optical Major Business

Table 149. Sunny Optical Thin-Film Holographic Optical Elements (HOEs) Product and Services

Table 150. Sunny Optical Thin-Film Holographic Optical Elements (HOEs) Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Sunny Optical Recent Developments/Updates

Table 152. Sunny Optical Competitive Strengths & Weaknesses

Table 153. Global Key Players of Thin-Film Holographic Optical Elements (HOEs) Upstream (Raw Materials)

Table 154. Global Thin-Film Holographic Optical Elements (HOEs) Typical Customers

Table 155. Thin-Film Holographic Optical Elements (HOEs) Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Thin-Film Holographic Optical Elements (HOEs) Picture

Figure 2. World Thin-Film Holographic Optical Elements (HOEs) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Thin-Film Holographic Optical Elements (HOEs) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 5. World Thin-Film Holographic Optical Elements (HOEs) Average Price (2021-2032) & (US\$/Sq m)

Figure 6. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Region (2021-2032)

Figure 7. World Thin-Film Holographic Optical Elements (HOEs) Production Market Share by Region (2021-2032)

Figure 8. North America Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 9. Europe Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 10. China Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 11. Japan Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 12. South Korea Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 13. Southeast Asia Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 14. China Taiwan Thin-Film Holographic Optical Elements (HOEs) Production (2021-2032) & (K Sqm)

Figure 15. Thin-Film Holographic Optical Elements (HOEs) Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 18. World Thin-Film Holographic Optical Elements (HOEs) Consumption Market Share by Region (2021-2032)

Figure 19. United States Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 20. China Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 21. Europe Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 22. Japan Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 23. South Korea Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 24. ASEAN Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 25. India Thin-Film Holographic Optical Elements (HOEs) Consumption (2021-2032) & (K Sqm)

Figure 26. Producer Shipments of Thin-Film Holographic Optical Elements (HOEs) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Thin-Film Holographic Optical Elements (HOEs) Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Thin-Film Holographic Optical Elements (HOEs) Markets in 2025

Figure 29. United States VS China: Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Thin-Film Holographic Optical Elements (HOEs) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Thin-Film Holographic Optical Elements (HOEs) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Market Share 2025

Figure 33. China Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Thin-Film Holographic Optical Elements (HOEs) Production Market Share 2025

Figure 35. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Type in 2025

Figure 37. Transmission HOE

Figure 38. Reflection HOE

Figure 39. Others

Figure 40. World Thin-Film Holographic Optical Elements (HOEs) Production Market Share by Type (2021-2032)

Figure 41. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Type (2021-2032)

Figure 42. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Type (2021-2032) & (US\$/Sq m)

Figure 43. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Film Structure, (USD Million), 2021 & 2025 & 2032

Figure 44. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Film Structure in 2025

Figure 45. Single-Layer Film HOE

Figure 46. Multi-Layer Film HOE

Figure 47. Laminated Film HOE

Figure 48. Flexible Film HOE

Figure 49. Rigid-Substrate Film HOE

Figure 50. World Thin-Film Holographic Optical Elements (HOEs) Production Market Share by Film Structure (2021-2032)

Figure 51. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Film Structure (2021-2032)

Figure 52. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Film Structure (2021-2032) & (US\$/Sq m)

Figure 53. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Manufacturing Process, (USD Million), 2021 & 2025 & 2032

Figure 54. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Manufacturing Process in 2025

Figure 55. Holographic Exposure HOE

Figure 56. Nanoimprint HOE

Figure 57. Photolithography HOE

Figure 58. Laser Interference Lithography HOE

Figure 59. Roll-to-Roll Replicated HOE

Figure 60. World Thin-Film Holographic Optical Elements (HOEs) Production Market Share by Manufacturing Process (2021-2032)

Figure 61. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Manufacturing Process (2021-2032)

Figure 62. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Manufacturing Process (2021-2032) & (US\$/Sq m)

Figure 63. World Thin-Film Holographic Optical Elements (HOEs) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 64. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Application in 2025

Figure 65. AR Waveguide

Figure 66. HUD

Figure 67. Laser Display

Figure 68. 3D Sensing

Figure 69. Optical Communication

Figure 70. Medical Imaging

Figure 71. Others

Figure 72. World Thin-Film Holographic Optical Elements (HOEs) Production Market Share by Application (2021-2032)

Figure 73. World Thin-Film Holographic Optical Elements (HOEs) Production Value Market Share by Application (2021-2032)

Figure 74. World Thin-Film Holographic Optical Elements (HOEs) Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 75. Thin-Film Holographic Optical Elements (HOEs) Industry Chain

Figure 76. Thin-Film Holographic Optical Elements (HOEs) Procurement Model

Figure 77. Thin-Film Holographic Optical Elements (HOEs) Sales Model

Figure 78. Thin-Film Holographic Optical Elements (HOEs) Sales Channels, Direct Sales, and Distribution

Figure 79. Methodology

Figure 80. Research Process and Data Source

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