

# Global Holographic Optical Component Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Holographic Optical Component market size was valued at US\$ 1037 million in 2025 and is forecast to a readjusted size of US\$ 2267 million by 2032 with a CAGR of 11.3% during review period.

A Holographic Optical Component (HOC) refers to a holography-recorded diffractive optical element—typically a volume holographic optical element (vHOE) or volume holographic grating—designed to perform optical functions such as beam steering, coupling/decoupling in waveguides, spectral filtering, dispersion, and stray-light suppression in systems like AR waveguides, head-up displays, spectroscopy, laser systems, and security/transparent display optics. In 2025, the average global price is approximately US\$42 per piece, with global sales volume around 24.0 million pieces and production volume about 26.0 million pieces; the industry typically maintains a gross margin of 35%–55%, driven by master recording precision, material science (photopolymers or photosensitive glass), tight process control for index modulation and angular/spectral selectivity, metrology yield, and application-level integration value. The supply chain includes upstream photopolymers/films (e.g., vHOE recording films), photosensitive glass, substrates (glass/polymer), lasers and optical benches for recording, coatings, laminates, and packaging; midstream manufacturers perform hologram design, digital mastering, exposure/recording, replication (including roll-to-roll film approaches), bonding/lamination, testing, and reliability qualification; downstream customers include AR/HUD module makers, automotive and mobility display supply chains, spectroscopy and hyperspectral OEMs, laser system builders, and security/brand-protection solution providers.

According to industry analysis, demand for holographic optical components is increasingly pulled by transparent display/HUD and AR waveguide architectures that require high efficiency, low stray light, and scalable replication; competitive advantage is shifting from ?single custom HOE? capability to platformized designs and repeatable manufacturing (stable recording materials, roll-to-roll/replication methods, and metrology-driven yield control) that can support automotive-grade qualification and long-term supply reliability.

This report is a detailed and comprehensive analysis for global Holographic Optical Component market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Holographic Optical Component market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Holographic Optical Component market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Holographic Optical Component market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Holographic Optical Component market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Holographic Optical Component

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Holographic Optical Component market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Meta Materials, Ceres Holographics, Luminet, TruLife Optics, Spectrum Scientifi, WaveFront Technology, Stensborg, Light Logics, Zeiss, Kaiser Optical Systems, etc.

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

## **Market Segmentation**

Holographic Optical Component market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Narrowband

Broadband

Multi-wavelength / Multi-notch

### Market segment by Wavelength Band

Visible

Near-Infrared (NIR)

Short-Wave Infrared (SWIR)

Multi-band

#### Market segment by Angular Selectivity

Narrow Angular Bandwidth

Medium Angular Bandwidth

Wide Angular Bandwidth

#### Market segment by Application

Automotive

Consumer Electronics

Telecommunications

Medical

Aerospace

Other

#### Major players covered

Meta Materials

Ceres Holographics

Luminit

TruLife Optics

Spectrum Scientifi

WaveFront Technology

Stensborg

Light Logics

Zeiss

Kaiser Optical Systems

Spectrogon AB

Headwall

Thorlabs

DigiLens

OptiGrate (IPG Photonics family)

Plymouth Grating Laboratory

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

*Global Holographic Optical Component Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...*

Chapter 1, to describe Holographic Optical Component product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Holographic Optical Component, with price, sales quantity, revenue, and global market share of Holographic Optical Component from 2021 to 2026.

Chapter 3, the Holographic Optical Component competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Holographic Optical Component breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Holographic Optical Component market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Holographic Optical Component.

Chapter 14 and 15, to describe Holographic Optical Component sales channel, distributors, customers, research findings and conclusion.

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