

# Global Holographic Optical Component Market Growth 2026-2032

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## Abstracts

The global Holographic Optical Component market size is predicted to grow from US\$ 986 million in 2025 to US\$ 2239 million in 2032; it is expected to grow at a CAGR of 12.1% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the “Holographic Optical Component Industry Forecast” looks at past sales and reviews total world Holographic Optical Component sales in 2025, providing a comprehensive analysis by region and market sector of projected Holographic Optical Component sales for 2026 through 2032. With Holographic Optical Component sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Holographic Optical Component industry.

This Insight Report provides a comprehensive analysis of the global Holographic Optical Component landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Holographic Optical Component portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Holographic Optical Component market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Holographic Optical Component and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Holographic Optical Component.

This report presents a comprehensive overview, market shares, and growth opportunities of Holographic Optical Component market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Narrowband

Broadband

Multi-wavelength / Multi-notch

**Segmentation by Wavelength Band:**

Visible

Near-Infrared (NIR)

Short-Wave Infrared (SWIR)

Multi-band

**Segmentation by Angular Selectivity:**

Narrow Angular Bandwidth

Medium Angular Bandwidth

Wide Angular Bandwidth

**Segmentation by Application:**

Automotive

Consumer Electronics

Telecommunications

Medical

Aerospace

Other

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Holographic Optical Component market?

What factors are driving Holographic Optical Component market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Holographic Optical Component market opportunities vary by end market size?

How does Holographic Optical Component break out by Type, by Application?

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