

Global Holographic Optical Component Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB71FB65F81BEN.html>

Date: January 2026

Pages: 146

Price: US\$ 4,480.00 (Single User License)

ID: GB71FB65F81BEN

Abstracts

The global Holographic Optical Component market size is expected to reach \$ 2267 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global Holographic Optical Component production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Holographic Optical Component 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 Holographic Optical Component that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Holographic Optical Component total production and demand, 2021-2032, (K Units)

Global Holographic Optical Component total production value, 2021-2032, (USD Million)

Global Holographic Optical Component production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Holographic Optical Component consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Holographic Optical Component domestic production, consumption, key domestic manufacturers and share

Global Holographic Optical Component production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Holographic Optical Component production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Holographic Optical Component production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Holographic Optical Component 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 Meta Materials, Ceres Holographics, Luminet, TruLife Optics, Spectrum Scientific, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Holographic Optical Component market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Holographic Optical Component Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Holographic Optical Component Market, Segmentation by Type:

Narrowband

Broadband

Multi-wavelength / Multi-notch

Global Holographic Optical Component Market, Segmentation by Wavelength Band:

Visible

Near-Infrared (NIR)

Short-Wave Infrared (SWIR)

Multi-band

Global Holographic Optical Component Market, Segmentation by Angular Selectivity:

Narrow Angular Bandwidth

Medium Angular Bandwidth

Wide Angular Bandwidth

Global Holographic Optical Component Market, Segmentation by Application:

Automotive

Consumer Electronics

Telecommunications

Medical

Aerospace

Other

Companies Profiled:

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 Answered:

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

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