

# Global Handheld Structured Light 3D Scanner Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Handheld Structured Light 3D Scanner market size is expected to reach \$ 521 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

Handheld structured light 3D scanners are portable optical measurement devices that acquire high-precision 3D data by projecting structured light onto an object's surface and analyzing the deformation of the reflected light. The device can quickly record the geometric structure and texture information of an object's surface, thereby generating an accurate digital 3D model. These devices are widely used in industrial inspection, reverse engineering, product design, cultural heritage digitization, and medical modeling, providing rapid and accurate data acquisition capabilities for digital engineering and 3D visualization applications. The handheld structured light 3D scanner industry chain includes upstream optical components such as projection modules, cameras, sensors, processors, and precision electronic components. The midstream consists of scanner manufacturers responsible for optical calibration, algorithm development, equipment assembly, and software integration. Downstream applications mainly include industrial quality inspection, automotive design, aerospace engineering, cultural heritage digitization, medical modeling, and 3D content creation. The industry chain also includes services such as software upgrades, equipment calibration, and technical support to ensure stable equipment operation and efficient integration with digital design and manufacturing processes. In 2025, the global production of handheld structured light 3D scanners was approximately 9,985 units, with a global average market price of approximately US\$29,500 per unit. The gross profit margin of major companies in the industry ranges from 40% to 60%. In 2025, the global production capacity of handheld structured light 3D scanners will be approximately 13,313 units.

The Handheld Structured Light 3D Scanner market is expanding due to the rapid adoption of digital measurement technologies in manufacturing, engineering, and creative industries. These scanners provide high-accuracy 3D data capture with portability and real-time processing capabilities, making them valuable tools for inspection, reverse engineering, and product development. Advancements in optical projection systems, imaging sensors, and 3D reconstruction algorithms continue to improve scanning accuracy and efficiency. Integration with CAD software, digital twin platforms, and additive manufacturing systems further expands application scenarios. Demand is particularly strong in automotive, aerospace, and industrial manufacturing sectors where precise geometric measurement is critical. As industries increasingly rely on digital modeling and automation, the market for handheld structured light 3D scanners is expected to maintain steady growth globally.

This report studies the global Handheld Structured Light 3D Scanner production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Handheld Structured Light 3D Scanner 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 Handheld Structured Light 3D Scanner that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Handheld Structured Light 3D Scanner total production and demand, 2021-2032, (Units)

Global Handheld Structured Light 3D Scanner total production value, 2021-2032, (USD Million)

Global Handheld Structured Light 3D Scanner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Handheld Structured Light 3D Scanner consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Handheld Structured Light 3D Scanner domestic production, consumption, key domestic manufacturers and share

Global Handheld Structured Light 3D Scanner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Handheld Structured Light 3D Scanner production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Handheld Structured Light 3D Scanner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Handheld Structured Light 3D Scanner 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 LMI Technologies, Hexagon, Physimetrics, SCANOLGY, Nikon Metrology, SHINING 3D, Shenzhen Dreambot 3D Technology, UPOLabs, Mega Phase Technology, Artec 3D, 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 Handheld Structured Light 3D Scanner market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Handheld Structured Light 3D Scanner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Handheld Structured Light 3D Scanner Market, Segmentation by Type:

Blue Light Structured 3D Scanner

White Light Structured 3D Scanner

Infrared Structured Light Scanner

#### Global Handheld Structured Light 3D Scanner Market, Segmentation by Accuracy Level:

Industrial Grade 3D Scanner

Professional Grade 3D Scanner

Entry-Level 3D Scanner

#### Global Handheld Structured Light 3D Scanner Market, Segmentation by Application Areas:

Reverse Engineering Scanner

Quality Inspection Scanner

Cultural Heritage Scanning

Medical & Orthopedic Scanning

Global Handheld Structured Light 3D Scanner Market, Segmentation by Application:

Automobile

3C Manufacturing

Others

Companies Profiled:

LMI Technologies

Hexagon

Physimetrics

SCANOLOGY

Nikon Metrology

SHINING 3D

Shenzhen Dreambot 3D Technology

UPO Labs

Mega Phase Technology

Artec 3D

Creaform(AMETEK)

Carl Zeiss

**Key Questions Answered:**

1. How big is the global Handheld Structured Light 3D Scanner market?
2. What is the demand of the global Handheld Structured Light 3D Scanner market?
3. What is the year over year growth of the global Handheld Structured Light 3D Scanner market?
4. What is the production and production value of the global Handheld Structured Light 3D Scanner market?
5. Who are the key producers in the global Handheld Structured Light 3D Scanner market?
6. What are the growth factors driving the market demand?

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