

# Global Metrology-grade Full-field 3D Scanner Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Metrology-grade Full-field 3D Scanner market size is expected to reach \$ 5170 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

In 2025, global Metrology-grade Full-field 3D Scanner production reached approximately 76.8 K units, with an average global market price of around 35,740 USD/unit.

A Metrology-grade Full-field 3D Scanner refers to a high-precision non-contact measurement device that adopts technologies such as structured light, blue light raster, or laser projection to simultaneously capture three-dimensional geometric data of the entire surface (full-field) of a measured object; it features micron-level measurement accuracy (typically up to  $\pm 10\mu\text{m}$  or higher), stable repeatability, and high-density point cloud collection capab

The average single-line production capacity of Metrology-grade Full-field 3D Scanner is 3,600 units, the average gross profit margin was 54.7%.

The industry chain of Metrology-grade Full-field 3D Scanner has a clear hierarchical collaboration system: the upstream mainly includes suppliers of core components and raw materials such as high-resolution industrial cameras, precision optical lenses, light sources (blue light/laser), image sensors, and high-performance chips, as well as providers of specialized software algorithms (3D reconstruction, point cloud processing) and production equipment (precision calibration tools, assembly lines); the midstream consists of manufacturers engaged in product R&D, integrated design, assembly, and precision calibration, which produce standard or customized scanners, with key

enterprises including international brands such as Hexagon (Leica), Carl Zeiss, and AMETEK, and domestic brands; the downstream covers application fields such as automotive manufacturing, aerospace, precision machinery, 3C electronics, medical devices, and cultural relic protection, with end-users including automobile factories, aerospace enterprises, precision component manufacturers, and research institutions, and the circulation relies on authorized dealers, technical service providers, and industrial equipment procurement platforms.

The cost structure of Metrology-grade Full-field 3D Scanner is dominated by core component costs, with specific weight distribution as follows: core components account for the largest proportion of 65%-75%, among which precision optical components (lenses, light sources) account for 25%-30% of the total cost, high-performance image sensors and chips account for 20%-25%, and specialized algorithm software authorization accounts for 10%-15%; production and manufacturing costs account for 15%-20%, including precision assembly, calibration testing, and quality control processes that require professional technology and equipment; R&D costs account for 8%-12%, focusing on accuracy improvement, algorithm optimization, and multi-scenario adaptation technology research; the remaining 2%-3% includes auxiliary costs such as packaging, transportation, technical support, and after-sales services.

The demand for Metrology-grade Full-field 3D Scanner is mainly driven by the upgrading of global manufacturing towards intelligence and precision, the increasing demand for quality control in high-end industries such as new energy vehicles and aerospace, the expansion of application scenarios to medical and cultural relic protection fields, and the acceleration of domestic substitution; the Asian market represented by China shows rapid growth momentum, with a projected annual compound growth rate exceeding 20%. Business opportunities lie in developing portable and modular products to adapt to on-site measurement needs, optimizing core components and algorithms to improve cost performance and promote domestic substitution; expanding customized solutions for segmented fields such as precision electronics and medical devices; strengthening technical cooperation with downstream high-end manufacturing enterprises to achieve bundled sales; and exploring emerging markets in Southeast Asia and South America driven by industrial upgrading.

This report studies the global Metrology-grade Full-field 3D Scanner production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metrology-grade Full-field 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 Metrology-grade Full-field 3D Scanner that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metrology-grade Full-field 3D Scanner total production and demand, 2021-2032, (K Units)

Global Metrology-grade Full-field 3D Scanner total production value, 2021-2032, (USD Million)

Global Metrology-grade Full-field 3D Scanner production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Metrology-grade Full-field 3D Scanner consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Metrology-grade Full-field 3D Scanner domestic production, consumption, key domestic manufacturers and share

Global Metrology-grade Full-field 3D Scanner production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Metrology-grade Full-field 3D Scanner production by Core Technology Principle, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Metrology-grade Full-field 3D Scanner production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Metrology-grade Full-field 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 Shining 3D, ZEISS, Hexagon, Scantech, KEYENCE, FARO, XTOP, SMARTTECH3D, RangeVision, Revopoint 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 Metrology-grade Full-field 3D Scanner 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 Core Technology Principle, 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 Metrology-grade Full-field 3D Scanner Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metrology-grade Full-field 3D Scanner Market, Segmentation by Core Technology Principle:

Structured Light

Laser Projection

## Photogrammetry-Assisted Full-field

Global Metrology-grade Full-field 3D Scanner Market, Segmentation by Operation Mode:

Fixed Bench-top Type

Handheld Portable Type

Automated Robot-Integrated Type

Global Metrology-grade Full-field 3D Scanner Market, Segmentation by Measurement Accuracy Level:

Ultra-Precision Type ( $\leq 5\mu\text{m}$ )

High-Precision Type (5-20 $\mu\text{m}$ )

Standard Precision Type (20-50 $\mu\text{m}$ )

Global Metrology-grade Full-field 3D Scanner Market, Segmentation by Application:

Automotive Manufacturing Quality Inspection

Aerospace Component Measurement

Medical Device Precision Testing

Electronic Semiconductor Micro-Measurement

Others

Companies Profiled:

Shining 3D

ZEISS

Hexagon

Scantech

KEYENCE

FARO

XTOP

SMARTTECH3D

RangeVision

Revopoint 3D

HOLON 3D

Insvision Technology

Artec 3D

VISION3D TECHNOLOGY

Jenoptik

Bruker

AMETEK

Sensofar

Polytec

Key Questions Answered:

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

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