3D Scanning - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-06-01 | 120 pages | Mordor Intelligence

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Report description:

3D Scanning Market Analysis

The 3D scanning market is valued at USD 4.09 billion in 2025 and is forecast to climb to USD 8.23 billion by 2030, advancing at a 15.01% CAGR. Expansion is underpinned by the rapid shift of 3D capture from specialist metrology labs to mainstream workflows in manufacturing, healthcare, cultural preservation and consumer electronics. Growth catalysts include artificial-intelligence engines that automate point-cloud post-processing, smartphone LiDAR modules that broaden user access, and electric-vehicle producers that need sub-millimetre measurement for lightweight battery assemblies. Laser scanners remain dominant yet structured-light devices are winning adoption owing to portability gains. Demand is also lifted by long-range infrastructure documentation projects and by face-and-body scanning for personalised healthcare.

Global 3D Scanning Market Trends and Insights

Rising demand for high-precision 3D metrology in lightweight EV platforms

Electric-vehicle builders now validate thin-walled battery trays and power-train castings using automated laser profilers that measure 680 features in under 140 seconds, trimming inspection cycles that once lasted hours. Sub-millimetre tolerances ensure thermal stability and crash safety, and vendors such as Marposs supply systems that scan 240 stator contacts in 30 seconds to enable 100% in-line checks. Widespread adoption across North American and APAC plants converts dimensional control into a real-time production gate rather than a post-process audit.

Additive-first aerospace design workflows require native 3D scan inputs

Engineers now assume that scan data will feed reverse-engineering, topology optimisation and final-part validation. Programmes such as NIST's Measurement Science for Additive Manufacturing promote real-time data loops that embed scanning at each build layer.Demand therefore shifts towards systems that capture internal lattice geometries, pushing resolution thresholds while keeping cycle time viable.

Persistent shortage of metrology-grade talent

Experienced operators who understand calibration and uncertainty budgets remain scarce. Lengthy upskilling cycles slow corporate rollouts and can trigger measurement errors that erode confidence in new equipment. The gap is most visible in regulated industries with zero-defect tolerance

Other drivers and restraints analyzed in the detailed report include:

Shift to predictive maintenance twins in process industries / Data-processing bottlenecks in >1-billion-point cloud projects /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Laser scanners retained 36% share of the 3D scanning market in 2024 due to time-of-flight accuracy prized by industrial and construction users. Structured-light units, however, are advancing at a 16.40% CAGR as portable rigs with AI-enabled surface reconstruction shrink setup effort. Hexagon's StereoScan neo offers variable light projection that manages dark or shiny surfaces without powder.

The 3D scanning market now values mobility almost as much as micron-level precision. Structured-light devices such as GOM Scan 1 package blue-light technology in sub-5 kg frames, opening access to small workshops and field engineers. Software suites that automate inspection and reverse-engineering expand revenues as hardware margins compress.

Short-range scanners captured 45% of the 3D scanning market size in 2024 thanks to their fit with high-volume manufacturing and medical workflows. Long-range devices over 30 m are set for a 16.20% CAGR, propelled by infrastructure digitisation and heritage preservation mandates such as the EU pledge to document all at-risk monuments by 2030.

Adjustable-field products now blur traditional range classes. The wireless KSCAN-X covers volumes up to 2.6 m ? 1.8 m, enabling aerospace technicians to toggle between body panels and cabin interiors without tripod moves. Wide-area capture creates recurring revenue from asset-lifecycle models that pay for themselves over decades of facility maintenance.

3D Scanners Market is Segmented by Type (Hardware, Software), by Range (Short Range, Medium Range, Long Range), by Application (Reverse Engineering, Rapid Prototyping, Quality Control/Inspection, Face and Body Scanning, and More), by End-User Vertical, and by Geography. The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

North America accounted for 38% of the 3D scanning market in 2024. The region benefits from long-established metrology standards, aerospace primes that demand micron-level documentation, and policy incentives for digital manufacturing. Canadian hubs house global service centres for suppliers such as Creaform, ensuring close-range technical support. United States OEMs now integrate scanners into additive manufacturing cells to verify each build layer, while Mexico's expanding EV production adds volume orders for in-line gauges.

APAC is forecast to deliver the highest 17.70% CAGR to 2030. China's 3D industrial camera revenues rose 28.35% year on year in 2024, driven by robotics and automated optical inspection. Japan leads wireless innovation through launches such as KSCAN-X, and South Korea embeds scanning in semiconductor and electronics assembly. India and Southeast Asia add upside as new industrial corridors seek affordable quality-assurance tools.

Europe posts steady gains rooted in automotive innovation and heritage-site digitisation. Funding streams that target culture-such as the EU Twin It programme-guarantee long-range project pipelines. Germany's EV supply chain upgrades dimensional control, while Nordic construction firms adopt scan-to-BIM to curb cost overruns. The Middle East, Africa and South America remain nascent yet show rising demand in mining, energy and preservation projects.

List of Companies Covered in this Report:

3D Systems Inc. / Faro Technologies Inc. / Hexagon AB / Trimble Inc. / Creaform (AMETEK) / GOM GmbH / Topcon Corporation / Maptek Pty Ltd / Autodesk Inc. / Artec 3D / Nikon Metrology / Carl Zeiss Industrial Quality Solutions / Konica Minolta Sensing / Shining 3D / Perceptron (Ametek) / Leica Geosystems (Hexagon) / Photoneo / Peel 3d / Revopoint 3D / 3Shape A/S /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

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