STRUCTURED LIGHT 3D SCANNING

3D SCANNING CHALLENGES

The ability to gather data and build 3D models based on physical objects has helped to revolutionize industries like manufacturing, retail, or healthcare. In general, 3D models can increase efficiency, decrease costs, and improve overall processes.

However, many companies find it difficult to overcome the current steep barrier to entry as they try to link the physical and digital worlds. Technologies such as Photogrammetry, Depth Cameras, and LiDAR have tried to help, but each still has significant user limitations like scanning speed, computational cost, and accuracy.

THE STRUCTURED LIGHT 3D SCANNING SOLUTION

Structured Light 3D Scanning overcomes all these challenges, enabling you to digitize physical objects and more easily create a 3D computer model. SoftServe's hardware and software solution uses the Structured Light Technique to efficiently, cost-effectively, and accurately digitize physical objects. Businesses can obtain 3D models of an object in seconds, with the resulting scanned model having submillimeter accuracy and resolution.

SOLUTION BENEFITS

Digitize the World

Businesses can create digital replicas of an object on the go, making them more agile.

Structured Light 3D scanning provides 3D models that are industry-standard, manufacturing-ready quality.

Discover New Data Insights

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Improve Accuracy

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softserve

A SOLUTION BUILT FOR MODERN BUSINESS

Modular Design

The modular design means it's easily scalable to scan small, medium, or large objects.

Scanning Flexibility

The 3D scanner allows for flexibility—algorithms can perform ultra-precise scans of both moving and static objects, as well as hard-to-reach places and spaces.

Automate Large Volumes

Save time and money with this solution's ability to scan a large volume of objects using automated processes.

Accurate Gap Restoration

Different structure light codecs are supported to create the best model possible, with an algorithm for restoring point cloud "holes" or obscure regions. Structure Light technique allows the most accurate point cloud recreation, recreating 3D data for the most challenging and complex surfaces.

WHY SOFTSERVE?

STABILITY

27+
Years of award-winning service

EXPERIENCE

10K+
Complex project competed

TRUST

70 NPS
Leads hr industry

YOU-CENTRIC

100%
Onsite, remote, or hybrid service delivery

RETENTION

90%
Client retention (many for more than 20 years)

SCALABILITY

30%
Organic CAGR five years running

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