

## Next-Level 3D Scanning: Precision, Efficiency, and Cost-Effective Avatars

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### Abstract

In recent years, the fashion and e-commerce industries have experienced a growing demand for technologies that capture accurate real-world data, such as 3D models, to enhance user shopping experiences and improve sales optimization. Although numerous solutions exist, many face limitations in accessibility and application.

Our invention introduces a cutting-edge 3D scanning system capable of creating highly detailed avatars with precise measurements, significantly faster and at a fraction of the cost of the comparable current market offerings.

Leveraging an automatic body measurement extraction algorithm, the system analyzes acquired data to accurately identify key body measurements, capturing a comprehensive and detailed representation of the individual.

The designed scanning booth provides a controlled environment, ensuring high-quality results efficiently and reliably.

An integrated management platform allows users to view, edit, and apply their avatars in various contexts, ensuring a complete and interactive user experience. Concluding with a combination of speed, price-effectiveness and avatar quality our invention may stands out as a disruptive force in the 3D scanning market, offering a superior and more accessible solution for businesses and consumers alike.

