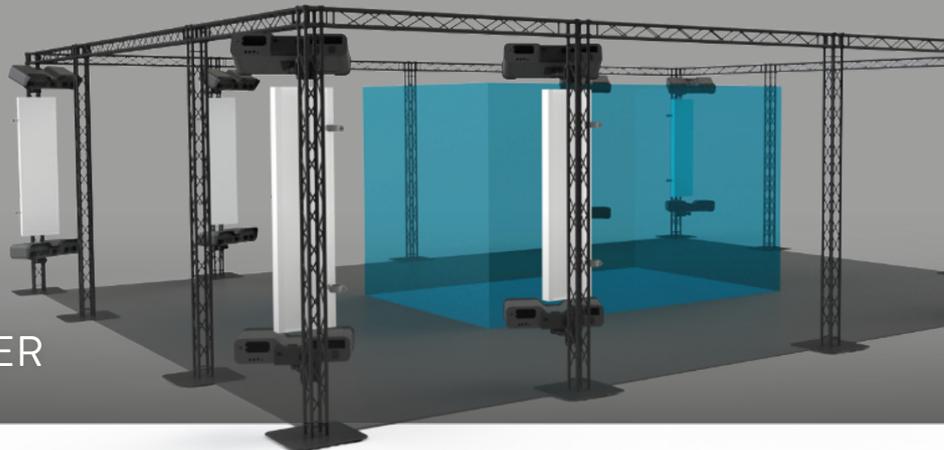




M O V E 4 D
HIGH-SPEED 4D BODY SCANNER

MOVE4D

HIGH SPEED BODY SCANNER



What is 4D scanning with MOVE4D?

MOVE4D is an advanced body scanner designed to capture dynamic, real-time 3D data, enabling detailed analysis of body movements and posture. Using a synchronized system of 4D scanning modules, MOVE4D tracks motion in full detail, offering unprecedented accuracy for industries such as ergonomics, sports sciences, and product development.

Equipped with 12 or 16 optical units mounted on columns with built-in lighting, this system covers a large scanning volume, ensuring precise, non-invasive measurements.

APPLICATIONS

R&D in Anthropometry and Biomechanics

- » Dynamic data of moving shapes, using homologous meshes with a known, fixed topology.
- » New avenues to the analysis of human movements and the biomechanical analysis of human function.

Wearables

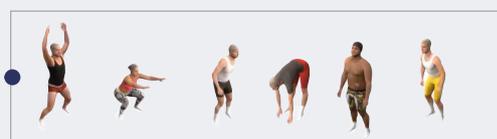
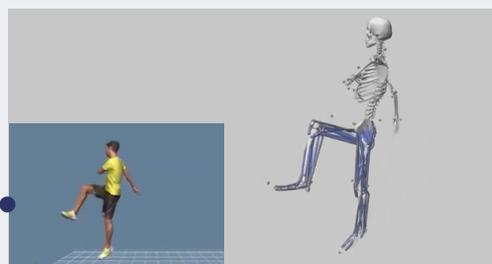
- Product innovation in Apparel Industry.
- » Automatic dynamic body measurements to improve design, fitting and customization.
- » Product assessment and validation.
- » Digitalization 3D design and virtual fitting.

Computer Vision

- » Ground truth generation of datasets for machine learning applications.
- » Supporting the creation of Generative models of digital humans.
- » Automatic annotation.

Immersive Technologies

- » Populate the Metaverse: Generate your 4D avatar libraries and integrate it into different production pipelines.





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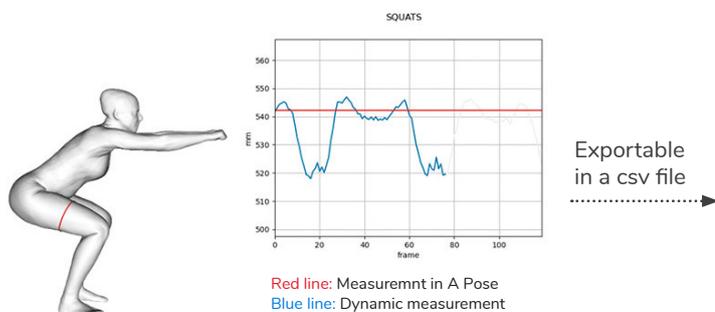


INSTITUTO DE
BIOMECAICA
DE VALENCIA

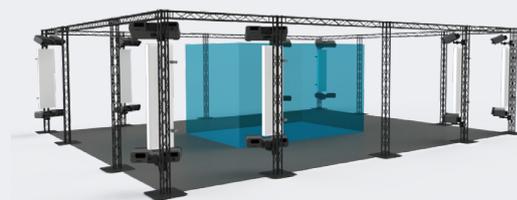
Technical Specifications

COMPONENT	DESCRIPTION
Optic unit accuracy	1 mm (High resolution) / 2 mm (Medium resolution)
Capture frequency	Up to 178 Hz
Capture	Simultaneous 3D and texture
Standard Outputs	<p>PLY: raw point cloud with a density of more than 4M points</p> <p>OBJ: sequence of frames of watertight dense mesh with a density of 50K points including texture</p> <p>FBX: sequence of frames of watertight dense mesh with a density of 50K points including texture and skeleton:</p> <ul style="list-style-type: none"> - FBX animation with one blendshape - FBX animation with multi blendshape <p>BVH: kinematic file describing the movement of the body skeleton</p> <p>CSV:</p> <ul style="list-style-type: none"> - Set of 93 body measurements in A-pose (ISO7250 – ISO8559) - Set of 19 dynamic body measurements

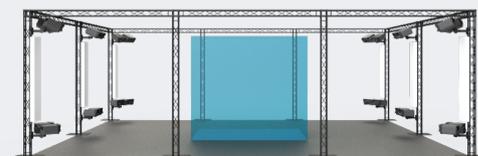
Dynamic Measurements



MODULAR AND SCALABLE



Modules	Scanning Volume (w x l x h) meters	Footprint
16	2 x 3 x 3	ca. 7 x 8 m



Modules	Scanning Volume (w x l x h) meters	Footprint
12	2 x 2 x 3	ca. 6 x 7 m

CONTACT US

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