

Motion Capture Unleashed!

Real-Time Markerless Motion Capture

No Markers, No Sensors | Budget friendly | Unleash your Creativity





Real Time Parametric Capturing Technology

a REVOLUTIONARY 3D Content Capturing deep-tech

Based on a series of proprietary Deep Algorithms:







Body ID



Finger Motion Synthesis



6DOF



High fidelity

Whether it's that subtle wrist flick or tiny shimmy, our technology's extremely high fidelity captures the very essence of human movement. AR 51 markerless motion capture is extraordinarily accurate and high quality



Real time

Our low-latency, high-fidelity capture ensures that the avatars created move just like their real-life counterparts, giving content creators the ability to see their digital creation come to life.



Markerless

AR 51 motion capture technology is completely markerless, making it possible to capture your motion easily and seamlessly no matter what you're wearing and with no special attire required.



Main Advantages



No Markers



No Wear & Tear

No Batteries, No Suits Less Hassle



Less Operations

No Setup, No Preparations Less Employees



160 x Faster

World's Fastest Mocap Al Computes 4 Gigapixels per second



Low Latency

<u>9 milliseconds</u> glass-to-glass Customers feel as they are really there



On-Prem Solution

perfect balance of hardware & software



Highly Scalable

AR 51 system fits all From a small room to a basketball field



High-Fidelity

3mm spatial resolution More engaging more interactive



Multiple Participants

No limit to the number of customers that will enjoy the experience



A System in a Box

A turn-key solution with easy setup



Easy Integration

SDK for popular game engines E.g. Unity, Unreal



Seamless VR

Supports all leading VR headsets



Automatic Proportion

Avatars fits automatically to all sizes, from kids to basketball players



Body Identification

A unique identifier that persists throughout the experience



Finger Tracking

Full integration with inside-Out Finger tracking



Object Detection

Six degree of freedom prop tracking Tactile experience, allow customers tp feel & touch everything



Mixed Reality Videos

Create & share captivating videos of fantastic worlds



Patent-Pending

Filed and processed

Accuracy & Precision



Global positioning, capturing movements with exceptional accuracy and fidelity.

Robust system - supports **High Speed** movements

Absolute Spatial Accuracy with less than **3 Millimeters** error

Object tracking with less than 1 Millimeter precision

Coming Q2 2024:

Foot Contact Detection

Markerless Hands / Fingers Tracking

Confidential

Flexibility



Robustness: Reflective Floors, Indoor and outdoor

Scalability: Large capture space, Connected spaces, and spaces on different floors

Unlimited number of people

Automatic body proportions adjustment - capture kids and tall people

Hybrid - Full body and Object tracking - supports upto 100 objects in parallel

Confidential

Existing Pipelines



Full integration with: Unreal, Unity and Motion Builder

offering **compatibility** and flexibility for developers and studios across the industry.

Real Time Retargeting







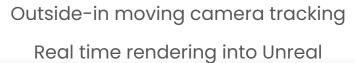
Ease of Use



- Real-Time Calibration
- Persistent Unique ID
- Hybrid solution
- PROPS tracking
- Hands and Finger Tracking
- Existing pipelines: Unity, Unreal, Motionbuilder
- Easy Export: FBX, BVH and many other

Next Gen: Al Based Instant Post-Processing

REAL-TIME CAMERA TRACKING





Roadmap for 2024



Discrete skeletal landmarks

Instant post-processing

Hands and Finger Tracking



Best for:



Real time VFX

Live Events - 3D Live streaming

Game development - 2D and VR - Rapid content generation

Virtual Production - Camera tracking in Unreal

Previz - EMPOWERING CREATIVE DECISIONS WITH MARKERLESS MOCAP

Next Gen:

MoCap Unleashed in Action





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Thank You