AiQ Synertial

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Rediscover motion capture

AiQ Synertial is a worldwide leader in inertial motion capture technology specialising in elegant, client-ready solutions for multiple sectors including animation, simulation, robotics, education and Industry 4.0. With a 30+ year legacy of delivering unparalleled dependability, its products map the finest details of the present while shaping the digital future, offering the most accurate solutions available to diverse industry and user needs through a global partnership of motion capture and smart textile expertise.

Explore G6 sensors now

Suit Types

The AiQ Synertial G6 full body motion capture Suit is available in 2 configurations:

The G6-19 comprises 18 IMUs for the body and 1 IMU designed to be attached to a prop. All body motion is captured apart from the performer's fingers.

The G6-31 comprises 16 IMUs for the body, 14 IMUs for hands and fingers, and 1 IMU designed to be attached to a prop. All body and finger movements are captured.

The IMUs are housed within a stretch fabric, hand washable, 3 piece Suit and Gloves.
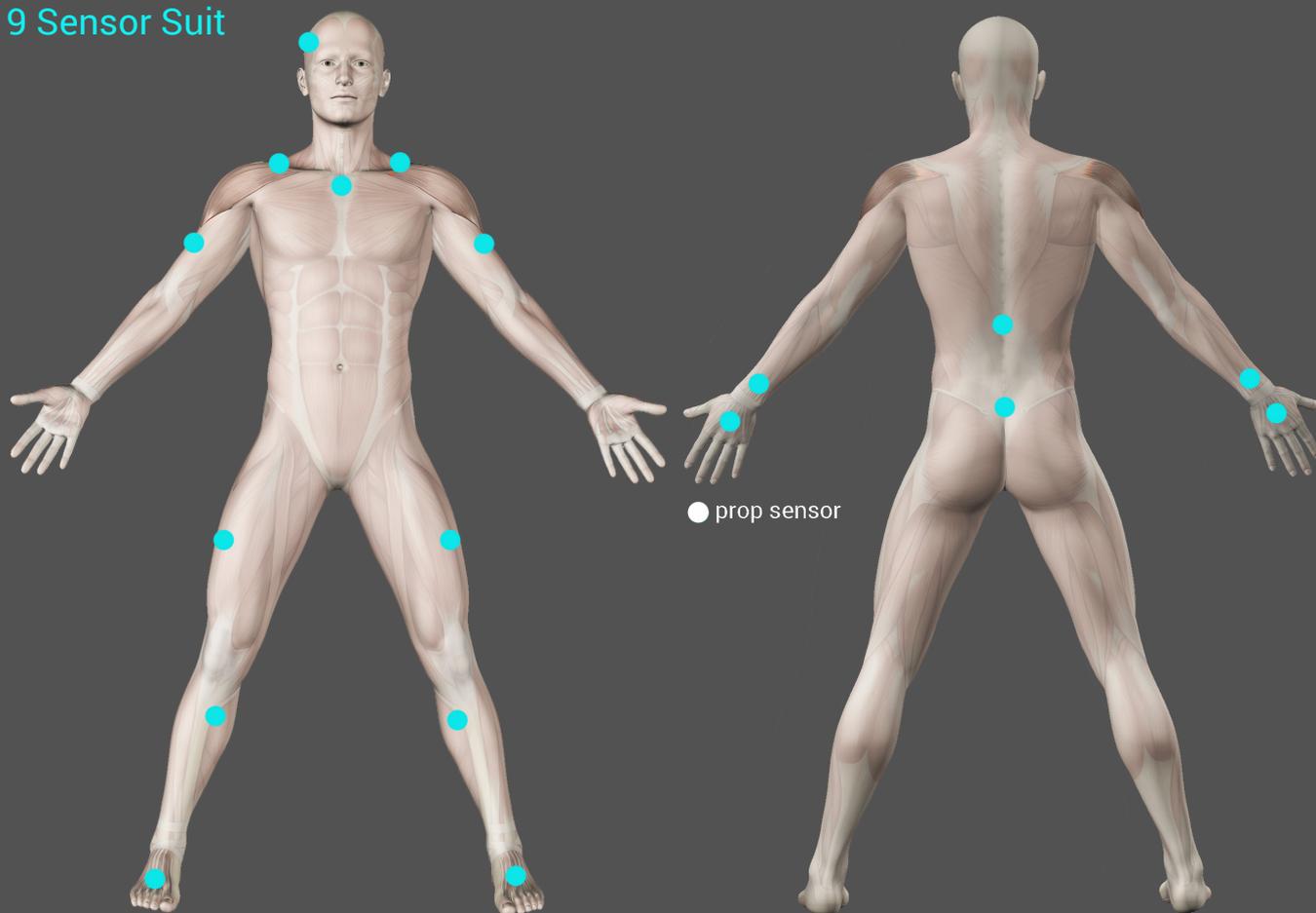
Sensor Specs

All AiQ Synertial motion capture products use advanced Inertial Measurement Unit sensors (IMUs), packed with industry leading specifications.
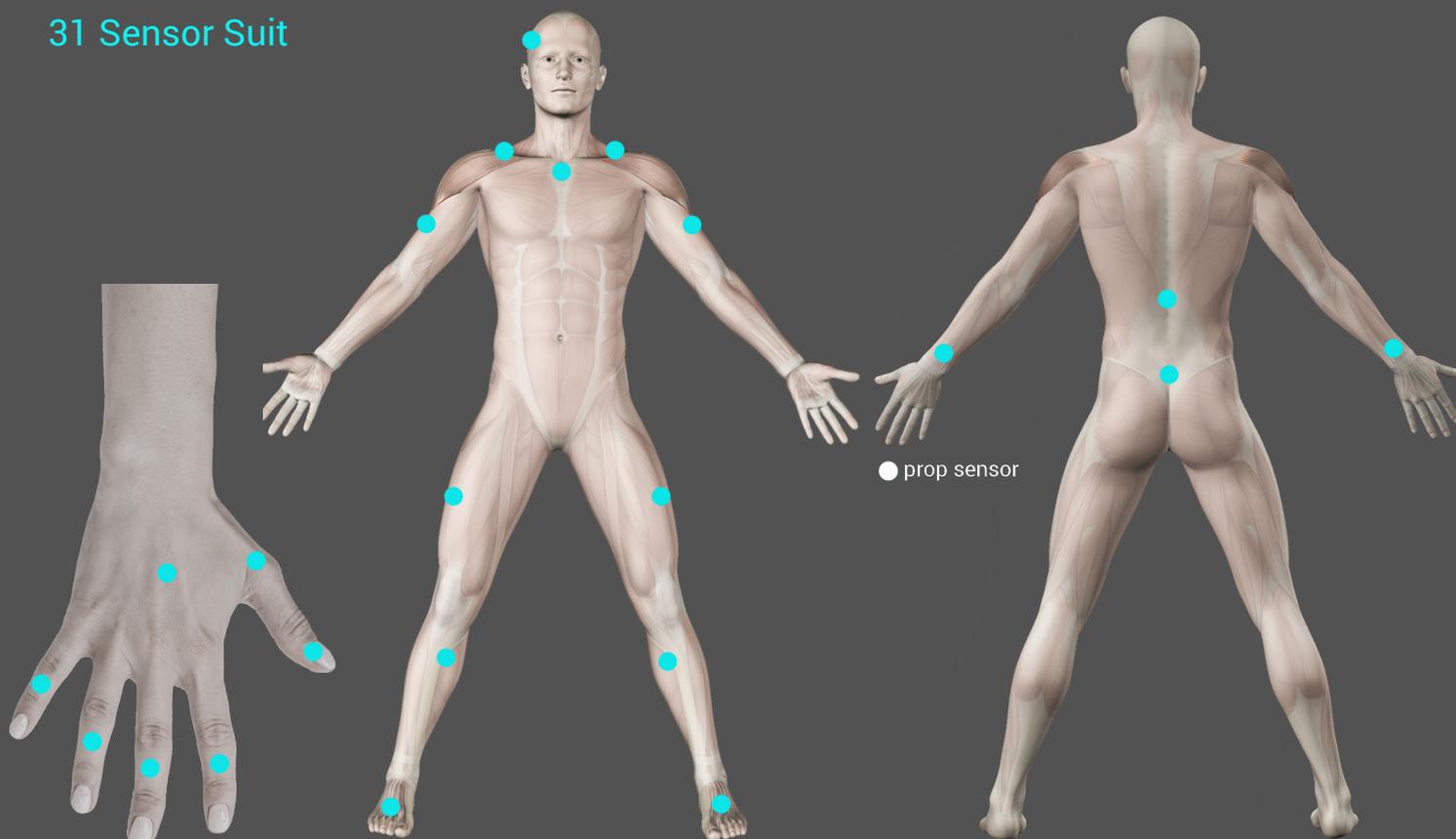
IMU Specs

- Patent-pending 15-axis IMUs comprising 6 accelerometers, 6 gyroscopes, 3 magnetometers
- 4,000 degree per second gyro rotation
- -/+ 16g accelerometer range
- 1.4 uT magnetometer accuracy
- 2000 uT magnetometer
- 416 samples per second internal gyro update rate

Sensor Placements on the suit

19 Sensor Suit

prop sensor

31 Sensor Suit

prop sensor

Operational Specifications

Data Capture

- Default 200 frames per second
- Native BVH, FBX, and CSV data output.

Power

- Power - 5V, 2A Battery
- System operating voltage - 3.3V
- Hub power consumption - 350mA
- Sensor power consumption - 32mA

Data Transmission

- Default 200 frames per second
- Native BVH, FBX, and CSV data output.

Software Packages

Animation

- Syndash Pro operating software
- MotionBuilder Plugin
- UE5 Plugin
- Unity Plugin

Simulation

- Syndash Pro operating software
- UE5 Plugin
- Unity Plugin
- SDK

Industry 4.0

- Syndash Pro operating software
- Siemens Process Simulate Plugin
- SDK

Biomechanics

- Syndash Pro operating software
- Syndash Bio-Mech
- Compatible with Visual 3D, STT Motion