

AiQ.  Synertial

# G4 MOCAPSUIT



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Synertial is the industry standard in motion capture.

Their motion capture suits and gloves are the first choice for data collection, digital factory design shops and academic research.

Synertial's unique skeleton calibration ensure that the full-body suits and gloves track almost as accurately as optical systems.

By combining inertial and optical technologies, the fast calibrating hybrid motion capture system delivers zero drift, ensuring supremely accurate repeatable results.





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## Features:

Accurate footsteps: zero positional drift  
Market-leading Cobra gloves for precision finger tracking  
Kinematic skeleton modification tools for perfect results  
Simple and configurable snap calibration  
From 17 to 55 sensors  
WiFi: buy off-the-shelf router and configure your own range  
Synertial 's Software Development Kit  
Synertial plug-ins for Mobu, Unity, Unreal, PSH/ Jack  
3 second hardware re-start

## Body mapping precision:

Ships with highly customizable Synertial calibration system software  
Modify existing skeletons or create new ones  
Modify local coordinate systems of any segment  
Place VIVE trackers anywhere on the body  
Use Computer Vision (CV) SW to digitize subject skeleton  
Use VIVE trackers to validate CV-digitized skeletons  
Modify snap calibration poses and procedures

## Utilitarian body suit:

Solo operation and fast set up  
Super-flexible and comfortable material  
Lycra and strap combination  
Colour-coded system for easy ingress  
Thin soft top fits all sizes

## VIVE compatibility:

VIVE, Suit and Glove all in a single data stream  
Clean footsteps when using VIVE trackers  
Attach VIVE trackers anywhere on the suit  
Use VIVE controllers to enhance subject skeleton for increased accuracy  
Use additional VIVE trackers for robust sitting/reclining  
Walk out of the VIVE optical space without disruption  
Use suit without VIVE when needed

# What's in the box?



- Headband
- Jacket
- Arm Strap
- Wrist Strap

- Cobra Gloves
- VIVE tracker pad
- Chaps
- Leg and foot straps



Network config cable



WiFi hub Tx



5vDC Battery pack or  
Anker battery pack



2 x Jig

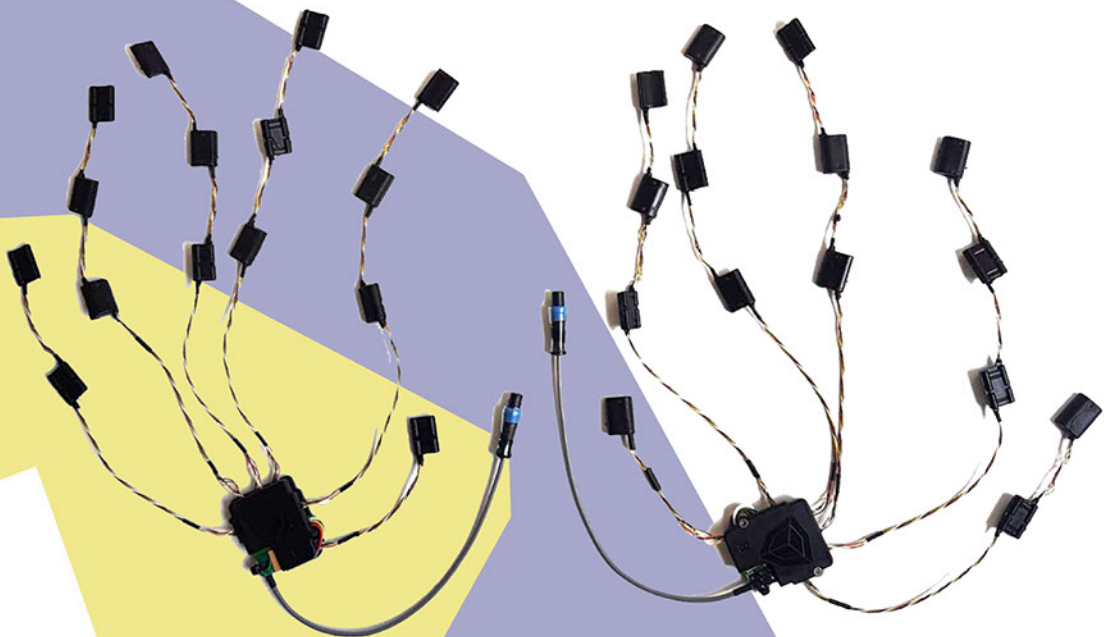
# Tech Spec

## **Processing hub:**

Up to 480 HW fps; 120 standard  
Hardware start-up in 3 Seconds (no re-calibration)  
AA Batteries, 5vDC wall adapter or power bank  
Separate sync HW up to 1000 FPS (Standard 29.97 FPS),  
WIFI: buy off-the-shelf router and configure your own  
range Multiple PCs can run the same HW simultaneously  
Locking data and power connectors

## **Sensors:**

IMUs only (Inertial Measurement Units):  
9-axes, gyroscopes, accelerometers and  
magnetometers  
On-board processing on each sensor  
Internal update rate: 500Hz  
Gyro range: 2000 degrees/sec  
Accelerometer range: 1 6Gs  
Sensor housing dimensions: 47mm x 15mm x 6mm or  
22mm x 13mm x 5 mm





# Contact Info

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