

G5-SE Mocapsuit Sports Edition

AiQ, Synertial

G5-SE Mocapsuit Sports Edition

Especially designed for sports sciences

Robust tried and tested OS

Amazing low-energy almost invisible electronics

Accuracy through sensors, smart clothing and

SW tools for easy skeleton file creation

Machine wash with sensors, no dryers

Use Android for data collection

Use PC to cut the data into desired

sequences for export or analysis

Use PC to render sequences into

2D video for export and share online

SDK with sample code 🕡



Ultimate Sports Analysis sports capture data

HTC-Vive ready integrate Vive for no-drift sessions

Machine Wash with the sensors on 🐨

Full Body Suit arms and legs 3 each, head, ribcage, pelvis, R&L clavicles, 17 in all 2nd Skin Cloth comfortable, crease-free, designed to leave on for hours **Tiny low-energy** sensors, WiFi Bluetooth Hub, tiny batteries last 2+ hours Android device to manage local data collection at 180 fps w/ PC download tools PC SW tools to **crop & collate downloads** into smaller files for analysis or export PC SW tools to **create or edit user skeleton map** for accurate data PC SW tools to Visualize Biomechanical Dynamics for analysis PC SW tools to render customized 2D video Exports from the 3D data Change Avatars & motions at will for Export



Super flexible 2nd Skin

- Fully hand or machine wash leaving sensors on
- Super-stretchy material ideal for intensive exercise
- Up to 24 built-in fast-tracking sensors
- Size options for best fit
- •Low profile / skin tight 🗑



System specification:

Power

Power supply
Battery capacity:
System operation voltage
System power consumption
Operation time

Data transmission

Bluetooth Wi-Fi Cable Max Capture rate SD Storage

Software

Android PC Analysis PC Media Export PC Plugins PC Export Formats

Fingers

Sizes

2nd Skin Stretch suit (pants, long-sleeves)
Semi Adjustable Stretch suit (2-piece)
Main Hub/BT Dimensions
Snap-on WiFi dongle Dimensions

Washing

Certification
Bluetooth
Wi-Fi

External 3.3~5V
Based on customers' choice
3.3V
Total 24 sensor ~1.8W
2+hrs with factory battery

5.0, up to 2Mbps (24 sensors, 60fps)
2.4G, 802.11 b/g/n, up to 65Mbps.
For onboard memory card PC download only
180 fps on memory card, 60fps for Wi-Fi/Bluetooth
2+ Days

SynDash app SynDash Graphs & Editor, AutoCal Skeleton SynDash Video Export Suite Unity, UE4, MoBu Plugins BVH, FBX, CSV positionals

Optional Pincer sensors for thumb/index/middle

XL, L, M, S, XS L, M Ø35mm x 8.7mm Ø33mm x 11.3mm

Machine-wash approved, Hand wash for extended life

CE, FCC FCC, IC, TELEC, RED



Sensor specification:

Power & Range:

Supply voltage 3.3~5V

Current consumption 18mA, 2+ hrs with supplied batteries

Accelerometer range +/- 8g

Gyroscope range ~2000 °/s

Number of sensors per suit:

Full Body/Palms only 15 + 2 sensors (G5-SE 17)

Full Body Suit with pincers 15 + 8 sensors (G5-SE 23)

Raw Data Rates:

Gyro rotation Vector 1000 times/sec

Rotation Vector 400 times/sec

Gravity00 times/sec 400 times/sec

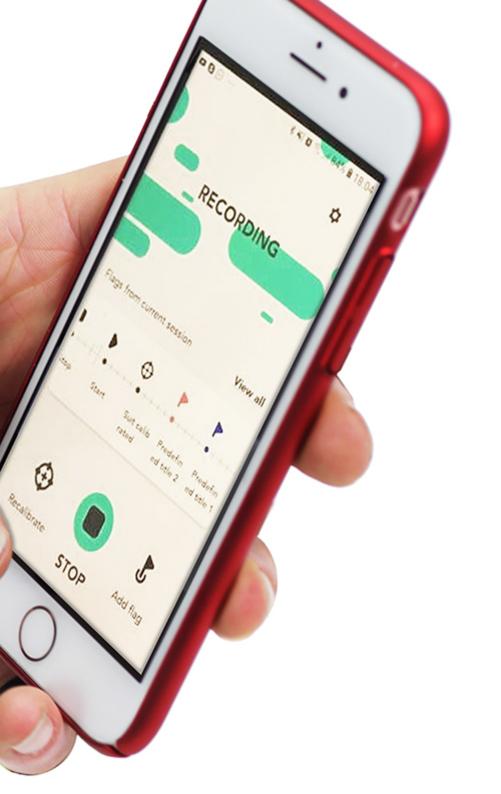
Linear Acceleration 400 times/sec

Accelerometer 500 times/sec

Gyroscope 400 times/sec

Magnetometer 100 times/sec







AiQ. Synertial

www.aiqsynertial.com sales@synertial.com +44 203 865 3327

AIQ-Synertial

Unit 22 and 23, Sussex Innovation Centre, Science Park Sq, Falmer, East Sussex, BN1 9SB

AIQ-Synertial, 8F, No.426, Linsen N. Rd., Taipei 10451, Taiwan