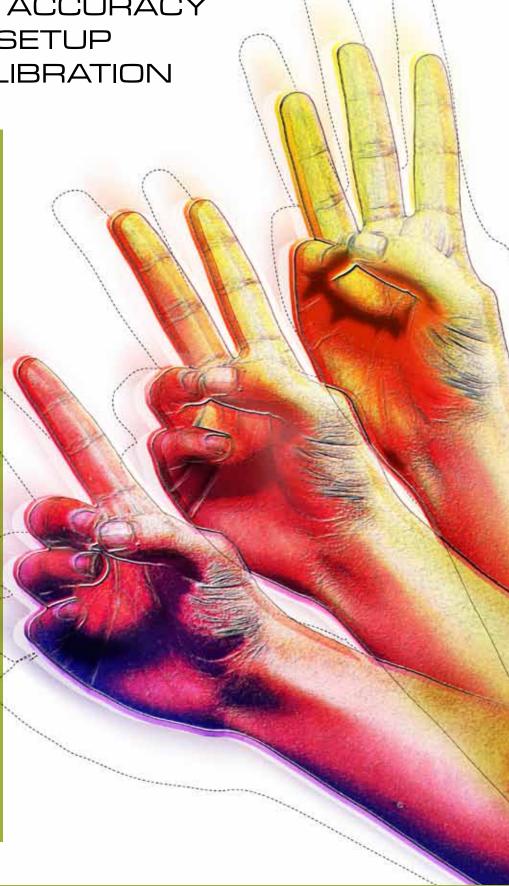# IGS Glove

UNRIVALLED ACCURACY
30 SECOND SETUP
INSTANT CALIBRATION

The IGS-Glove is the worlds first Gyro based hand and finger tracking solution. Designed to offer an accurate, easy to use solution to users who need to collect hand and finger movement for their research, animation, ergonomics or simulation projects.

Have you ever tried to capture hand movement using a camera or optical mocap system? What happened when the camera could not see your hands? The IGS-Glove uses inertial sensors that do not need line of sight allowing you to track hand movement with confidence in all locations and situations.

Say goodbye to marker occlusion, long set up times and inaccurate data and hello to faster animation pipelines and accurate results.

ACCURATE TRACKING WITHOUT CAMERAS

The IGS Glove uses highly accurate inertial sensors to capture movement data from the hand and fingers. This allows tracking even when the hands are completely covered or in a location where cameras can't be used.

UPGRADE YOUR EXISTING MOCAP SYSTEM

Already own a full body motion capture system?

The IGS Glove can easily be bolted onto any existing system - Optical or Inertial - to add accurate hand and finger data into your pipeline.

EASY TO USE AND FAST TO CHANGE USER

Other hand tracking solutions are time consuming and frustrating to use meaning you waste time on set up rather than focussing on your project. The IGS Glove requires no configuration before use and can be moved between users without additional configuration.

30 Second start up – no wasted time

LYCRA GLOVE STRETCHES IN 3D TO FIT ALL HANDS

Every hand is different so the IGS Glove has been designed to accommodate all hand shapes and sizes. The 12 inertial sensors are securely housed within the lycra stretch glove material allowing capture of all possible subjects.

WIRED OR WIRELESS CONNECTIVITY

Wired or Wireless configurations to suit your project. The IGS glove is available in wired format to suit desk based applications or Wireless for total freedom of movement. Our wireless option includes a high power wireless router allowing use without line of sight over a 20m range.

ROBUST AND INTUITIVE DESIGN

The IGS Glove has been designed with the user in mind. Micro fibre mesh is used at the palm and finger tips to allow unrestricted movement and to ensure the user can "feel" through the glove to ensure accurate results.

The back of the hand is made from dual layer tech weave fabric to securely hold and protect the sensors without effecting flexibility

FULLY COMPATIBLE WITH EXISTING SOFTWARE

Gain maximum ROI from your existing software licences. The IGS Glove is fully compatible with major software packages like Unity, Motionbuilder, Siemens JACK & PSH and Dassault Delmia & Catia.

Gain new understanding through the collection of accurate hand data during activity and answer more questions, in more locations with more confidence.

SIEMENS   **Autodesk**

IN THE CASE:

- 1x IGS Glove (Right or Left)
- 1x Main Processing Unit
- Software and Drivers (USB Key)
- 1x Wireless Router*
- 1x Rechargeable battery*

SENSOR

- 12x Micro IMU
- On-board Gyroscope, Accelerometer and Magnetometer
- Internal update rate: 500Hz
- Gyro range: 2000 degrees/sec
- Accelerometer range: 2, 4, 8 or 16 G
- Dimensions: 16mm x 10mm x 3.5mm

CONNECTIVITY

- Wired connectivity - 2m USB cable
- Wireless Connectivity - 20m range with provided router

DATA OUTPUT

- **Direct link to:**
  - Siemens Jack and PSH
  - Dassault Delmia and Catia
  - Autodesk Motionbuilder
  - IGS-BIO
  - MatLab
- 30 and 60 frames per second capture

SYSTEM REQUIREMENTS

- Windows XP, Vista, 7 (32 or 64bit)
- i5 CPU or equivalent
- 1GB RAM
- 1GB Free hard drive space

DIMENSIONS

- **Hand size:** Unlimited
- **Wired MPU:** 65mm x 35mm x 15mm
- **Wireless MPU:** 100mm x 65mm x 20mm
- **Battery*:** 125mm x 75mm x 22mm

* Wireless option only