

portable | accurate | realtime

animazoo
the future of motion capture

IGS-190

Animazoo is the original manufacturer of both the electromechanical and gyrosopic suit based mocap systems.

They've been developed over time through experience in the field of human movement motion analysis and are proven by experts in animation and biomechanics.

Our aim has always been to simplify motion capture technology and our systems have been designed to solve your problems.

You don't need to be a technical genius to use our systems, but the results will make you look like one.

We're passionate about our business and that means yours too! Here's how our systems can save you time, money and make your life easier.

what you'll love

1. No lag realtime

Users can direct performance and view the end results at the same time. That means you won't go back to your desk and find you have to shoot all over again. Perfect for visualization for the hard-to-please art director as well as live performance animation.

2. Incredibly Accurate Data (even when raw)

Raw data is incredibly smooth and clean and requires very little cleaning – usually none, making lengthy data cleaning sessions a thing of the past. Measurement is from the limbs not the joints and is placed away from muscle to avoid distortion. Sensors can be moved and accuracy is retained, whatever the subject size.

3. Preserve Nuance

Great for retaining lifelike movement or capturing fast moves, even lying on the floor. Our systems don't suffer from occlusion or marker swapping and you won't get any of the data tagging issues associated with other mocap systems. Plus, because there's no need for virtual tracking motions can be as fast or abrupt as you can perform them.

4. Easy to use

Set up is really simple. A beginner could install and be up and mocaping in 30 mins. You won't need to hire expensive technicians or be a technical genius yourself to use our systems - but the results will make you look like one.

5. No solving

Angle data is provided directly from the sensors cutting out cumbersome solving from the mocap pipeline. Go straight from skeleton to character and see pure angle data (not marker data) realtime.

6. Totally portable

Fits in a suitcase and doesn't require lengthy calibration at set up so moving location is simple. Plus, systems are powered by a rechargeable battery pack which means you don't need mains power.

7. Large capture area

An enormous capture area with a range of up to 200m radius, made possible by our military grade spread spectrum wireless system. You can even capture movement through walls or roam out of rooms. And if that's not enough, use a laptop to follow the actor and make the range limitless.

8. Simple, accurate multicapture

Systems don't require cameras or markers, so are completely free from occlusion and swapping making multi actor capture simple.

9. Fits your pipeline

Requires only standard computer capabilities and software integrates with all major animation and biomechanical analysis software.

10. Quality assured by the experts

Systems are assembled in the United Kingdom and come with 12 months parts and labour warranty, free software upgrades, free phone and email support. The system is so intuitive, minimal training is required.

IGS-190

The Animazoo IGS-190 is the next generation of the world's first inertial gyroscopic motion capture system. Easy to use, outstandingly accurate, portable and realtime the IGS-190 is precision motion capture at its finest.

Set up is simple and fast – a beginner can be up and mocapping in as little as 30 mins. All you need is the system and a laptop! The whole system fits in a suitcase making it incredibly portable.

The IGS-190 features nineteen tiny inertial sensors (manufactured by Intersense a world leading inertial sensor manufacturer) which are attached to a flexible lycra suit. Of course, not all bodies are the same so we supply removable wire channels. This means the gyros can be strategically placed for greater accuracy of measurement from the joint not the muscle.

Data output from the IGS-190 is exceptional. Even raw data is incredibly smooth and clean and requires very little cleaning – usually none. What's more, users can direct their performance and view the end results at the same time. The result is exceptionally lifelike movements – unparalleled by any other mocap system.

Setup Time	15 Minutes
Time to put on Sensor Suit	5 Minutes
System Boot to Capture	Under 7 Minutes
System Weight No Battery	2 Kg
Actor Size & Weight Range	Unlimited
Suit Material	Lycra
Shipping Weight	16 Kg
Shipping Size	46x36x20cm (18"x14"x18")

Inertial Gyroscopes	19 (20x25x35mm)
No. of Joints / Rotations Sensed	19
Optional programmable switches	6 digital
Sensor resolution	0.01 degree
Practical resolution	0.1 degree
Sensor Calibration	Delivered Calibrated



It has an enormous capture area with a range of up to 200m radius, made possible by its military grade radio transmitter. Its transmission is so strong it can capture movement through walls! Plus, even the most complicated full body capture of simultaneous actors is made comprehensive.

Wireless Range	up to 200m radius
Simultaneous Wireless Actors	16 (Unlimited when wired)
Operating Environment	Dry 0 - 40° C
Ability to Roam	Unlimited

The IGS-190 can be used in most environments even in spaces when magnetic interference can render other systems useless. It doesn't require cameras or markers, so is completely free from occlusion and marker solving. Your subject's position in space is provided via foot anchoring which results in clean natural movements. If global accuracy is critical choose the 'IGS-190us' an optional ultra sound to eliminate the possibility of any drifts resulting from inaccurate skeleton offsets.

Magnetic Interference	None
Occlusion / Marker Swapping	None
Global Translation Sensing	Yes - Calculated
Optional Prop Channels	1
Captured Frames/Second	15/30/60/120



The system is powered by a rechargeable battery pack which means it doesn't need mains power and can be used in any environment. The pack provides up to 3 hrs capture and can be changed during usage without loss of data.

Batteries Supplied	NiMH rechargeable pack
Battery run time	3 hrs (per pack)
DC Input	7.2 to 9.6v

Assembled in the United Kingdom the IGS-190 comes complete with 12 months parts and labour warranty, free software upgrades, free phone and email support. The system is so intuitive, minimal training is required.

Warranty	12 months parts and labour
Software Upgrades	Free for 12 months
Phone & Email Support	Free for 12 months
Delivery Time	Up to 4 weeks
Extended Warranty/ Service Contracts	2 & 3 years available

The IGS-190 requires only standard system capabilities and its software integrates with all major animation and biomechanical analysis software.

System Requirements	P3 or higher, 256 RAM
User Operating System	XP,Vista



Animazoo UK
Quayside Offices
Basin Road South
Brighton
BN41 1WF
United Kingdom

t: +44(0)1273 417 440
f: +44(0)1273 417 399
w: animazoo.com