

portable | accurate | realtime

**animazoo**  
*the future of motion capture*

**GYPSY-6**

**Animazoo is the original manufacturer of both the electromechanical and gyroscopic 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.

# GYPSY-6

The Gypsy-6 is the latest generation of award-winning electromechanical mocap from Animazoo. It's a great tool for animators, educators and researchers alike - it's ideal for teaching the concept of motion capture.

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! It's incredibly portable weighing only 6kg and adjustable in size so it'll fit most people. Its portability together with the accuracy of the raw data output makes it ideal for live events or on location capture. If you are looking to capture opening a heavy door - take the system to a heavy door!

Animazoo technology provides actual kinetic and rotational digital data. The combination of the potentiometers and gyroscopes provides excellent freedom of movement and the capture of highly accurate nuance filled raw data.

The wireless Gypsy-6 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, with up to 64 simultaneous actor capture (when wired), even the most complicated full body capture is made comprehensive with the Gypsy-6.

The electromechanical Gypsy-6 can be used in any environment and doesn't suffer from magnetic interference. The system does not require cameras or markers, so is completely free from occlusion and marker swapping. Your subject's position in space is provided via foot anchoring resulting in clean natural movements.

Setup Time (from opening case)	10 Minutes
Time to put on Sensor Suit	5 Minutes
System Boot to Capture	Under 3 Minutes
System Weight	6 Kg
Actor Size Range	150 - 190cm (5' to 6'4")
Actor Weight Range	45-110 Kg (100-250 lbs)
Suit Material	Plastic, Aluminium, Foam
Shipping Weight	25 Kg
Shipping Size	70x50x40cm (28"x20"x16")

Potentiometers	37
Inertial Gyroscopes	2
No. of Joints / Rotations Sensed	16
Optional programmable switches	6 digital
Sensor resolution	0.125 degree
Practical resolution	1 degree
Sensor Calibration	Delivered Calibrated

Wireless Range	up to 200m Radius
Simultaneous Wireless Actors	16 (64 when wired)
Operating Environment	Dry 0 - 40° C

Magnetic Interference	None
Occlusion / Marker Swapping	None
Global Translation Sensing	Yes - Calculated
Captured Frames/Second	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 4 hrs capture and can be changed during usage without loss of data.

Batteries Supplied	NiMH rechargeable pack
Battery run time	4 hrs (per pack)

Assembled in the United Kingdom the Gypsy-6 Torso 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

The Gypsy-6 requires only standard system requirements and its software integrates with all major animation and biomechanical analysis software.

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



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