

iInertial Labs
Attitude is Everything



3DSuit

Motion Capture Solutions

AMOUNT

VALUE

30%



25%



AMOUNT

Datasheet
Rev. 1.2

www.inertialabs.com



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SYNERTIAL

3DSuit[®] Motion Capture System

FEATURES

- Affordable price
- Kinematics Skeleton Software
- Real-time motion capture visualization
- Unlimited capture volume
- Can save up to 85% post-processing time
- Short setup time (7 min.)
- On-set and/or outside motion capture



Motion Capture Solutions



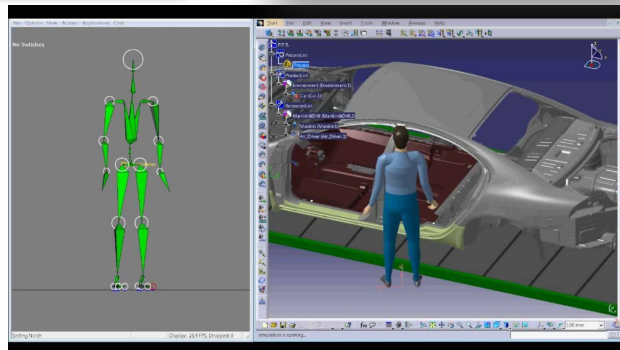
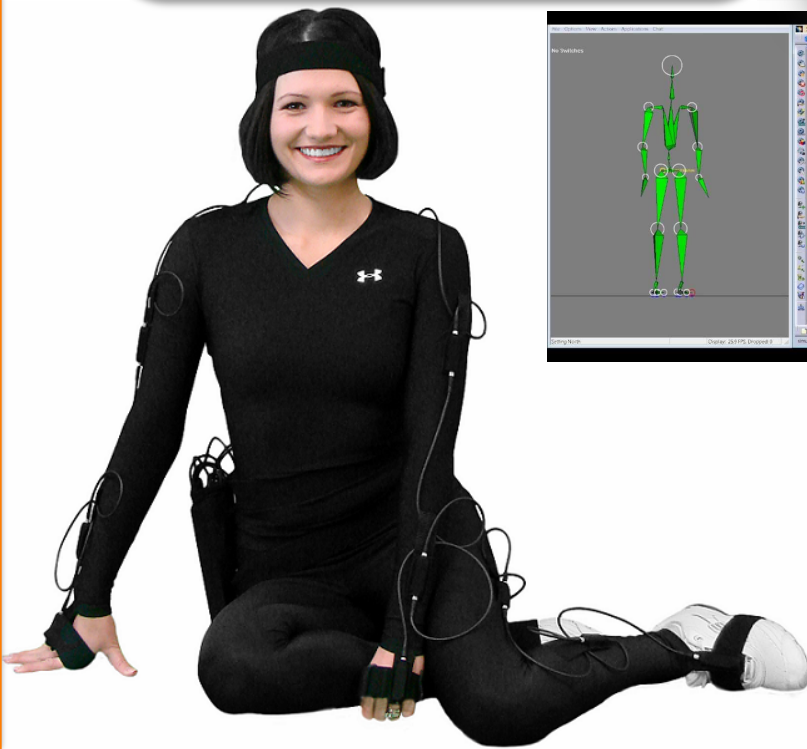
HARDWARE

- From 4 to 17 orientation sensors
- Waterproof (option)
- 1 deg Heading, Pitch & Roll accuracy
- 1% positioning accuracy (from covered distance)
- $\pm 2g$ or $\pm 16g$ accelerometers range
- ± 1200 deg/sec or ± 2000 deg/sec gyros
- WiFi interface



SOFTWARE

- Kinematics Skeleton Software
- Easily record motion capture data
- Export to *.BVH format
- Real-time visualization, playback and editing of motion capture data
- Plug-in for seamless real-time integration with Autodesk MotionBuilder[®] & Unity[®]



MotionBuilder[®] & Unity[®] are Trademarks of Autodesk and Unity

APPLICATIONS



Motion Capture Solutions

- Virtual Reality
- Motion Capture
- Training systems
- Movement Science
- R & D and Education
- Biomechanics and Rehabilitation

3DSuit[®] Specifications

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Feature	3DSuit
Hardware	
Version	Strap-based or Lycra suit
Trackers	4 - 17
Accuracy mocap data	Production ready
Trackers orientation accuracy	1 - 2 degrees
System positioning accuracy (from traveled distance)	1 %
Setup time	7 minutes
Latency	20 msec
Wireless data link	One access point for many actors
Battery	1 battery
Battery life	4 hours
Wireless range (indoor)	20 meters
On-body buffering/login	14,400 sec
Internal update rate	1000 Hz
Output rate	60 Hz
Portability	Backpack
Possibility to upgrade/integrate with VR gloves	Yes
Waterproof version (IP-67)	Yes
Software	
Multi-person	Yes
Plugins (Motion Builder, Unity)	Yes
SDK	Yes
MATLAB tutorial	Yes
Software subscription (license require)	No
Real-time visualization, BVH files	Yes

3DSuit possible configurations

