MVN Reports

Movement assessments on the spot

Understandable

Fast and accurate data analytics and reporting in an easy-to-use format.

Meaningful

Highly accurate results, helping you perform precise and objective assessments quickly and easily.

Usable

Fully standardized reports with application-specific data produced in minutes.

Rehabilitation & Injury prevention reports: Gait analysis

• General parameters like steps, cadence, and distance
• Spatial parameters
• Temporal parameters
• Joint angles, center of mass, and acceleration
• Gait graphs visualization
• Automatic gait cycle detection
• 3D visualization of recording

Ergonomics reports: RULA, REBA, Adjustable ergonomics

• Automized calculation for every frame
• Export data from a specific frame
• Arm and wrist analysis
• Neck, trunk, and leg analysis
• RULA score and risk factor
• Specifying load, support, and muscle use
• 3D visualization of recording

Looking for more information about MVN Reports? Go to our website or download our whitepapers at www.movella.com.

BRINGING MEANING TO MOVEMENT

The measurement and analysis of movement is helping people everywhere. Artists delight the public with innovative forms of entertainment. Athletes becoming their best selves and patients removing barriers to movement. And industries—from mobility to robotics—introduce new and efficient positioning and orientation applications. All enabled by Movella's advancements in sensing, capturing, and analyzing movement.
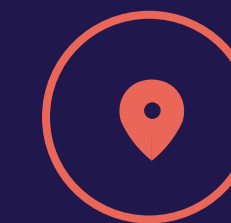
MOTION CAPTURE FOR HEALTH, SPORTS, RESEARCH AND EDUCATION

LAB QUALITY DATA IN FIELD CONDITIONS

Professionals around the globe are leveraging Xsens motion capture systems to transform movement data into insights that improve well-being, enhance performance and revolutionize research. Our cutting-edge system accurately captures full 3D motions - from those subtle twitches all the way up through dynamic movements. Tested in a variety of biomechanical settings, it delivers reliable results every time so you can trust your data is dependable

Easy to use, anywhere

Use Xsens Motion Capture solutions everywhere and get lab-quality data in the field. The system with intuitive interface is easy to set up, calibrate and modify. It helps you to focus on what is important in your work.

Accurate data

Experience the benefits of full magnetic immunity in all conditions. Our proven biomechanical model and sensor fusion algorithms ensure the highest quality motion analysis even in the most challenging magnetically disturbed environments.

Reliable data

Xsens Motion capture solutions offer validated, peer-reviewed data and features integrations with all market leading software packages, offering you the highest quality in motion capture and human movement data analysis.

Movella
Bringing meaning to movement

Movella
Bringing meaning to movement

INSIGHTS TO MOVE FORWARD

Xsens motion analysis systems offer unparalleled flexibility and accuracy when it comes to capturing movement of the human body. You can now easily capture laboratory-quality kinematic data like accurate 3D joint angles, segment positions, body accelerations and more - all at any place or time!

Our solutions are being used in:

BIOMECHANICAL RESEARCH

SPORTS SCIENCE

HUMAN FACTOR RESEARCH

WORKPLACE ERGONOMICS

SPORTS PERFORMANCE

REHABILITATION & INJURY PREVENTION

Research & Validation papers

Movella Technologies are helping universities and research institutes around the world to bring meaning to movement. You'll find details of use cases, research conducted using Movella products – as well as validation studies carried out by independent researchers on our website. Go to www.movella.com/research-validation

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Xsens Motion Capture Solutions

Our goal is to enable you to get the most out of your motion capture setup. Whether you need to capture your whole body or only parts of a movement, all options are here for you. Make a full motion analysis or quickly assess the data in a report. Choose the setup that works best for you!

Hardware

Xsens Motion capture

We offer four mocap hardware options: **MVN Link**, **MVN Awinda**, **MVN Awinda Starter** and **Xsens MetaGloves by Manus**. Choose one according to your specific motion capture needs, application, and budget.

MVN Link

- Ideal for high dynamic movement measurements
- High update rate for extra accuracy
- On body recording and storage for ultimate freedom
- Sturdy sensor placement for ultimate freedom
- No data disturbance thanks to magnetic immunity

MVN Awinda

- Ideal for low dynamic motions
- For ultimate ease-of-use and efficient motion capture
- Fast setup time with adjustable straps
- Accurate and reliable motion capture
- Mocap everywhere, no magnetic disturbance

MVN Awinda starter

- More affordable - with Xsens quality
- Quick setup with easy and fast sensor placement
- Ideal for low dynamic motions
- Mocap everywhere, no magnetic disturbance
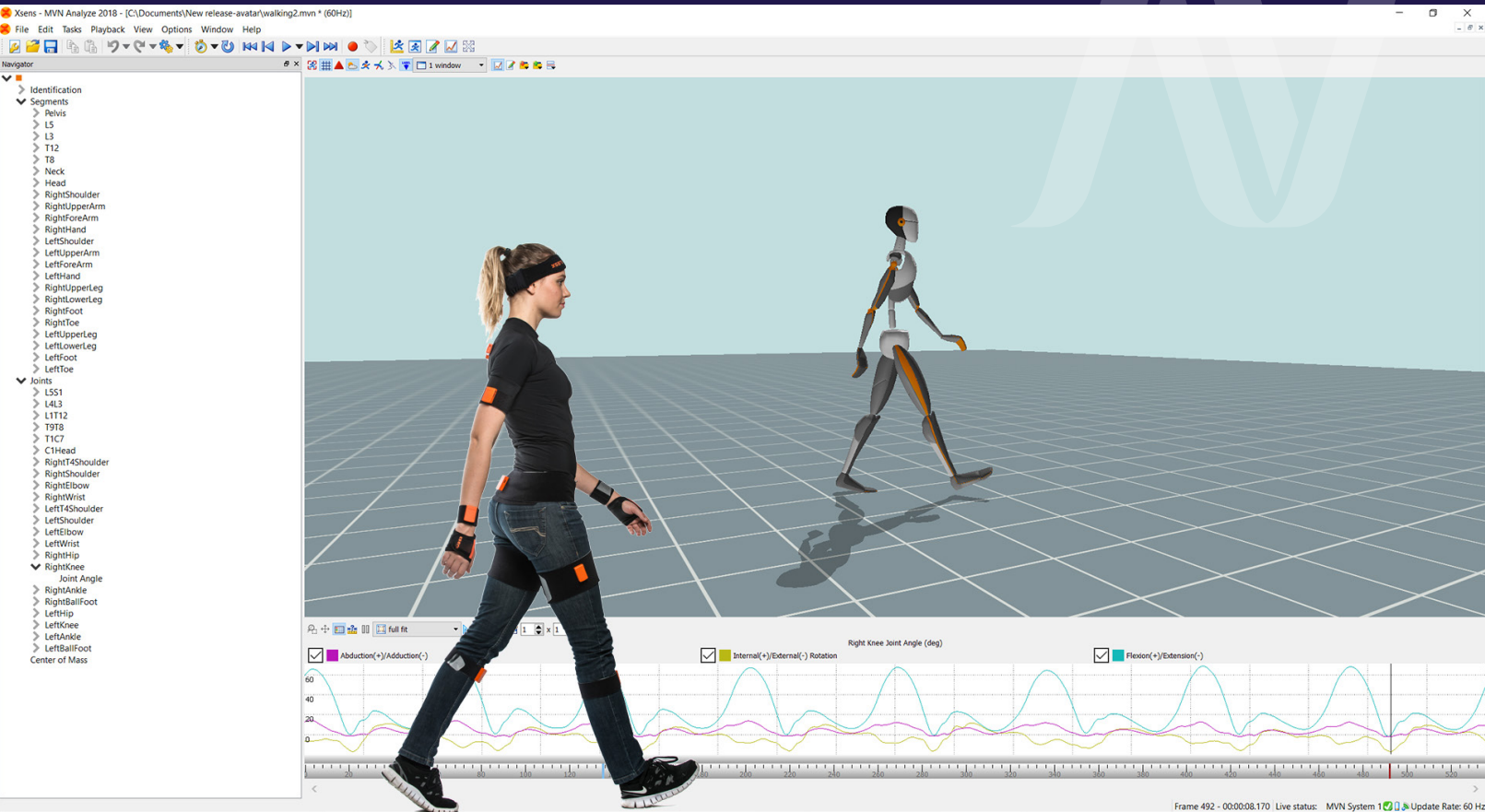
Xsens Metagloves by Manus

- Absolute, millimeter precise positional tracking in 3D-space
- Fast and accurate calibration only once
- Easily mount your Xsens sensors with the provided adapters
- Experience up to 3 hours of uninterrupted motion capture

Software

MVN Analyze

A validated solution to analyze human motion

MVN Analyze proprietary motion capture software lets you record and investigate the data from Xsens motion capture hardware systems. It provides real-time visualization of full body kinematic data – e.g. joint angles, segment orientations, center of mass and more.

MVN Record

- Free subscription
- Quick and easy recordings
- Multi-site motion capture
- Record functionality only

MVN Analyze

- Real-time visualization
- Validated, accurate and reliable data
- Record multiple subjects simultaneously
- Live stream or export into major softwares
- Full-body kinematics in multiple file formats

Integrations and plugins

Live stream or export your motion capture data seamlessly into your biomechanics, ergonomics, and analysis software, such as AnyBody, Visual3D, and Siemens PLM. We also provide plugins for finger tracking, EMG, positional aiding, and more. Please visit our integrations and plugins page to learn more at www.movella.com/integrations-overview

For more information and specifications, please visit our website at www.movella.com