

The Xsens logo is positioned at the top of the page. It features a stylized orange 'X' followed by the word 'sens' in a white, sans-serif font. The background of the entire page is a composite of images: a man and a woman running up a set of wooden stairs, wearing black Xsens MVN motion capture suits with orange sensors; a close-up of a woman's face in a blue-tinted overlay on the right; and a modern building with glass panels in the background.

# Xsens

Xsens MVN

## MVN Analyze

Motion Analysis for Human  
Motion Measurement



Xsens MVN (Hardware)

- Version**  
Lycra suit
- Trackers**  
17 wired trackers
- Data**  
Production quality
- Setup**  
Fast
- Latency**  
20 ms
- Data link**  
One Access Point for Multiple actors
- Battery management**  
One battery
- Battery life**  
10 hours
- Wireless range**  
Indoor: 50 m/150 ft  
Outdoor: 150 m/450 ft
- On-body recording**  
Yes
- On-body buffering**  
10 min
- Internal sampling rate**  
1000 Hz
- Output rate**  
240 Hz
- Finger tracking**  
Natively supports Manus VR Glove

← MVN Link ○

○ MVN Awinda >

- Version**  
Strap-based
- Trackers**  
17 wireless trackers
- Data**  
Production quality
- Setup**  
Even faster
- Latency**  
30 ms
- Data link**  
One Awinda station per actor
- Battery management**  
17 batteries
- Battery life**  
6 hours
- Wireless range**  
Indoor: 20 m/60 ft  
Outdoor: 50 m/150 ft
- On-body recording**  
No
- On-body buffering**  
2 min
- Internal sampling rate**  
1000 Hz
- Output rate**  
60 Hz (Full body)  
100 HZ (Lower body)
- Finger tracking**  
Natively supports Manus VR Glove

MVN Analyze (Software)

Feature	MVN Analyze
Multi Person	Yes
Network Streamer (for plug-ins)	Yes, all major 3D packages
Advanced Configurations	Full Body, Upper Body en Lower Body
Advanced Scenarios	Yes
Reference Camera support	Yes
Export as movie	Yes
Time code & remote control	Yes
Batch export	Yes
Remote On-Body Recording (ROBR)	Yes
Positional Aiding with GNSS	Yes
Positional Aiding with HTC Vive	Yes
Object Tracking with HTC Vive	Yes

Animate Engine	
Real-time solver	Yes
HD Reprocessor	Yes



MVN Analyze gives you Lab quality motion capture in field conditions.

Xsens tailored both hardware and software of the Xsens MVN systems to ensure real-time, reliable and accurate human motion analysis. Xsens’ tiny motion trackers are able to capture the smallest twitches to high dynamic movements on-body ensuring full 3D motion analysis. Dedicated signal pipelines take care of real-time and robust data connections. The proven MVN Analyze biomechanical model and sensor fusion algorithms ensure the highest quality motion analysis, even in challenging magnetically disturbed environments.



## ABOUT XSSENS

Xsens is the leading innovator in 3D motion tracking technology and products. Its sensor fusion technologies enable a seamless interaction between the physical and the digital world in applications such as industrial control and stabilization, health, sports and 3D character animation. Clients and partners include Electronic Arts, NBC Universal, Daimler, Autodesk, ABB, Siemens and various other leading institutes and companies throughout the world. Xsens is part of mCube, the provider of the world's smallest MEMS motion sensors, key enablers for the Internet of Moving Things. Xsens has offices in Enschede, Los Angeles and Hong Kong.

Visit [xsens.com/distributors](http://xsens.com/distributors) for an overview of Xsens' worldwide distributor network



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