XSENS

Xsens MVN

MVN Analyze

Motion Analysis for Human
Motion Measurement

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 Awinda ›

‹ **MVN Link**

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.

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ABOUT XSENS

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 for an overview of Xsens' worldwide distributor network

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