Xsens MVN (Hardware)

MVN Awinda

Version
Lycra suit
Trackers
17 wired trackers
Data
Lab quality
Setup
Fast
Latency
20 ms
Data link
One Awinda station per person
Battery management
One battery
Battery life
10 hours
Wireless range
Indoor: 50 m/150 ft
Outdoor: 150 m/450 ft
Remote On-body recording
Yes
On-body buffering
10 min
Internal sampling rate
1000 Hz
Output rate
240 Hz
GNSS Support
Yes
Finger tracking
Natively supports Manus VR Glove

MVN Link

Version
Strap-based
Trackers
17 wireless trackers
Data
Lab quality
Setup
Even faster
Latency
30 ms
Data link
One Awinda station per person
Battery management
17 batteries
Battery life
6 hours
Wireless range
Indoor: 20 m/60 ft
Outdoor: 50 m/150 ft
Remote 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)

<table>
<thead>
<tr>
<th>Feature</th>
<th>MVN Analyze</th>
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</thead>
<tbody>
<tr>
<td>Multi Person</td>
<td>Yes</td>
</tr>
<tr>
<td>Network Streamer (for plugins)</td>
<td>Yes</td>
</tr>
<tr>
<td>Advanced Configurations</td>
<td>Yes</td>
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<tr>
<td>Advanced Scenarios</td>
<td>Yes</td>
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<tr>
<td>Reference Camera support</td>
<td>Yes</td>
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<tr>
<td>Export as movie</td>
<td>Yes</td>
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<tr>
<td>Time code &amp; remote control</td>
<td>Yes</td>
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<tr>
<td>Batch export</td>
<td>No</td>
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<tr>
<td>GNSS Support</td>
<td>Yes</td>
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<tr>
<td>Analyze Engine</td>
<td></td>
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<tr>
<td>Real-time solver</td>
<td>Yes</td>
</tr>
<tr>
<td>HD Reprocessor</td>
<td>Yes</td>
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</tbody>
</table>

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 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, Shanghai and Hong Kong.

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