



	MTW DEVELOPMENT KIT LITE	MTW DEVELOPMENT KIT	MVN BIOMECH	MVN BIOMECH AWINDA
Motion trackers	1	1-32 (standard 6)	17+1	17+1
On-body wireless	Yes	Yes	No	Yes
On-body master	-	-	2x Xbus Master	-
PC-bound master	Awinda Dongle	Awinda Station Awinda Dongle	-	Awinda Station Awinda Dongle
Wireless range (open space)	50 m	50 m	150 m	50 m
Sample frequency (max)	-	-	120 ¹ Hz	-
Update rate (max)	150 ¹ Hz ¹	150 ¹ Hz	-	40/50/60 ¹ Hz
Video	-	-	MVN Reference Camera, synchronized video	MVN Reference Camera, synchronized video
Real-Time Preview	Graphical: 3D Orientation 3D Sensor component data: - Acceleration - Angular velocity - Earth magnetic field - Pressure 3D Orientation cube	Graphical: 3D Orientation 3D Sensor component data: - Acceleration - Angular velocity - Earth magnetic field - Pressure 3D Orientation cube	3D Scaled-character Orthogonal views Body CoM Network Streaming	3D Scaled-character Orthogonal views Body CoM Network Streaming
Post-Record View	Graphical: 3D Orientation 3D Sensor component data: - Acceleration - Angular velocity - Earth magnetic field - Pressure 3D Orientation cube	Graphical: 3D Orientation 3D Sensor component data: - Acceleration - Angular velocity - Earth magnetic field - Pressure 3D Orientation cube	3D Scaled-character Orthogonal views Body CoM Network Streaming Graphical: Time based plots Phase/Coordination plots - 3D Kinematics - 22 Joints - 23 Segments - Body CoM position - 3D Sensor component data	3D Scaled-character Orthogonal views Body CoM Network Streaming Graphical: Time based plots Phase/Coordination plots - 3D Kinematics - 22 Joints - 23 Segments - Body CoM position - 3D Sensor component data

¹ Depending on number of MTW's used and/or configuration

XSENS PRODUCT OVERVIEW

MEASURE KINEMATICS in 5 minutes



	MTW DEV. KIT	MTW DEV. KIT	MVN BIOMECH	MVN BIOMECH AWINDA
Output	- 3D Orientation 3D Sensor component data: - Acceleration - Angular velocity - Earth magnetic field - Pressure	- 3D Orientation 3D Sensor component data: - Acceleration - Angular velocity - Earth magnetic field - Pressure	3D Kinematics: - 22 Joint angles - 23 Segments (+prop if used): - Orientation - Position - Linear acceleration - Angular acceleration - Linear velocity - Angular velocity - Body CoM - Position 3D Sensor component data: - Sensor component data - Acceleration - Angular velocity - Earth magnetic field	3D Kinematics: - 22 Joint angles - 23 Segments (+prop if used): - Orientation - Position - Linear acceleration - Angular acceleration - Linear velocity - Angular velocity - Body CoM - Position 3D Sensor component data: - Sensor component data - Acceleration - Angular velocity - Earth magnetic field
Synchronization	-	- 4 AUX sync I/O BNC connectors - 2 sync in ports - 2 sync out ports - 0-3.3V TTL pulses - Software configurable	Optional: MVN Awinda Sync Station: - 4 AUX sync I/O BNC connectors - 2 sync in ports - 2 sync out ports - 0-3.3V TTL pulses - Software configurable	Included: MVN Awinda Sync Station: - 4 AUX sync I/O BNC connectors - 2 sync in ports - 2 sync out ports - 0-3.3V TTL pulses - Software configurable
Weight	MTw tracker: 27g	MTw tracker: 27g	On body: 1930g	On body: 500g
Export Formats	- .MTB - .TXT	- .MTB - .TXT	- .MVNX (ASCII open XML format) - .C3D - .FBX - .BVH - .AVI, .M4V	- .MVNX (ASCII open XML format) - .C3D - .FBX - .BVH - .AVI, .M4V
Development Kit	Software Development Kit capable of: - Real-time data streaming - Offline visualization of data - API, DLL - Matlab, C/C++/C# examples	Software Development Kit capable of: - Real-time data streaming - Offline visualization of data - API, DLL - Matlab, C/C++/C# examples	On demand	-
Other	Set of MTw holders	Click-in straps	Elastic straps (Lycra suit optional) KiC filter Multi person recording MVN Motion Grid compatible	Click-in straps KiC filter Multi person recording