



# MoCap Suit V100-R Plus

High-performance Robotic Motion Training & VLA Collaboration Solution

## Teleoperation : From human motion to robot joint control

Built on full body IMU motion capture and human movement science. Transforms multi-joint human motion into smooth, kinematics-based robot joint motion. Enables teleoperation and imitation learning beyond end-effector tracking.

## Retargeting : Intelligent mapping from human skeleton to robot joints

Proprietary skeletal mapping converts human posture into robot joint targets. URDF and ROS2 compatible for fast integration across humanoids and Cobot arms.

## Built for humanoids, compatible with cobot arms

Supports both humanoid robots and cobot arms. MOXI Robot Engine enables fast switching of skeletal mapping. Preconfigured for platforms such as FR3 and TM humanoid robots.



One-Size  
MoCap Suit



15 Nine-Axis  
IMU Sensors



Integrated  
High-Precision  
Finger Capture



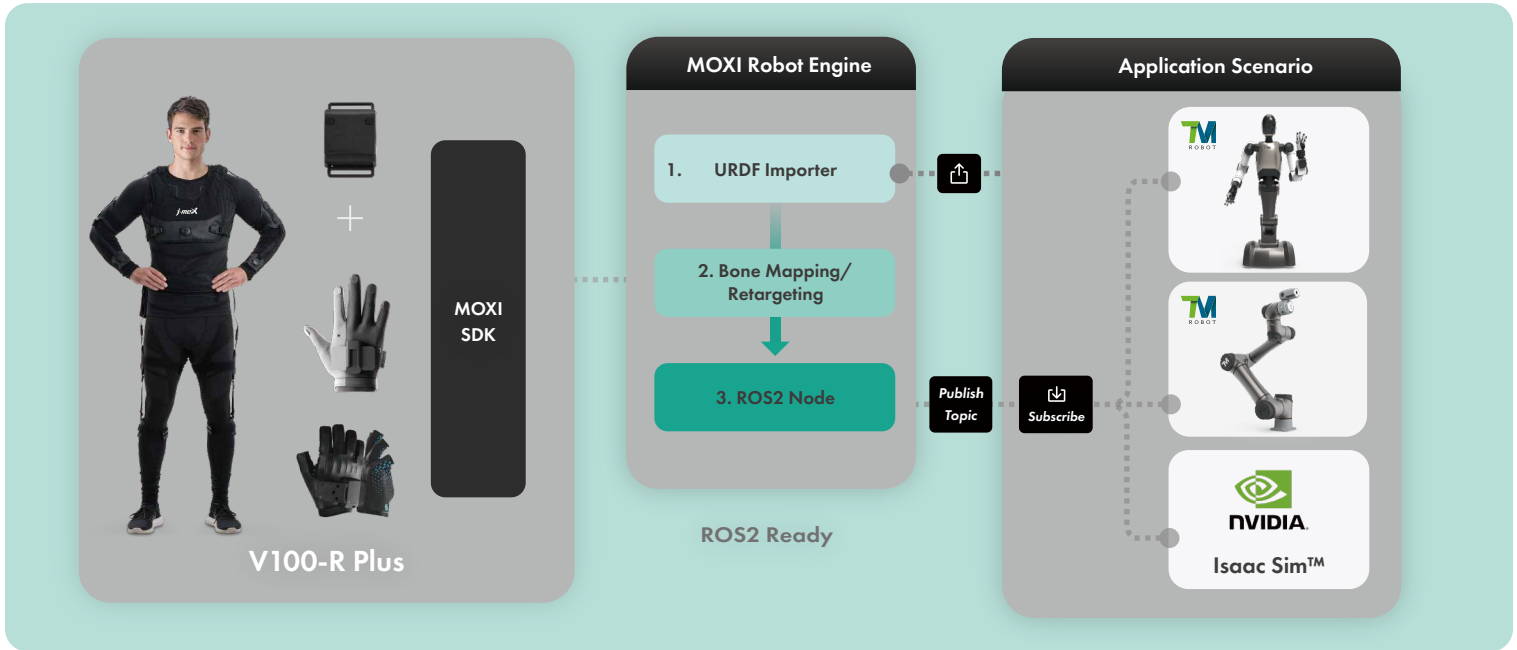
100 Hz  
Performance



Advanced Wireless  
Transponder



ROS and nvidia Isaac  
support



\*Custom requests are subject to an NRE fee.

## Transponder 1.0

Battery	Li-polymer, 2,000mAh
Battery run time	> 4 Hrs
Wi-Fi	Dual band, Wi-Fi 4, Wi-Fi 5 or Wi-Fi 6
Dimension & Weight	60.2 x 76.8 x 12mm, 75 g
Button	Power switch
Indicator	Battery capacity, PC or Wi-Fi linking, Cloth linking, Panty linking

## App

TransEZ App Android, iOS	For configuring the Transponder
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## Software

<b>MOXI Player for Robot</b> For windows 10, 11	<ul style="list-style-type: none"> <li>• MOXI Robot SDK</li> <li>• URDF Importer*</li> <li>• Bone Mapping / Retargeting</li> </ul>
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<b>MOXI Receiver for Robot</b> For Linux	<ul style="list-style-type: none"> <li>• Supports Isaac SIM / Lab</li> <li>• For ROS2 Humble and Jazzy editions on Linux</li> </ul>
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## Windows system requirements

CPU	Intel® Core™ i7
Memory	16GB above
Graphics	NVIDIA® GeForce RTX™ 4060 (recommended)



## MOXI sensor specs (For Europe & Japan)

Wireless Sensor (x1)	9-axis IMU sensors
Sensor Battery Capacity	120mAh, about 4.5 Hrs
Wireless Communication	Bluetooth
Dynamic accuracy	±2°
Dimension & Weight	37 x 37 x 10mm, 13g
Data Output & streaming data rate	100Hz

## MOTi sensor specs (For U.S. & Asia)

Wireless Sensor (x1)	9-axis IMU sensors
Sensor Battery Capacity	420mAh, > 8Hrs
Wireless Communication	Bluetooth
Dynamic accuracy	±2°
Dimension & Weight	46.3 x 38.8 x 14.3mm, 19.2g
Data Output & streaming data rate	100Hz

## Sensor Specifications (Built-in)

Sensor hub (x2) Dimension & Weight	42mm x 9.12mm, 8g
Sensor unit (x12) Dimension & Weight	32mm x 6.64mm, 3.8g
Dynamic accuracy	±2°
Angular accuracy	Rounding to the 2nd decimal place
Data Output & streaming data rate	100Hz

