



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



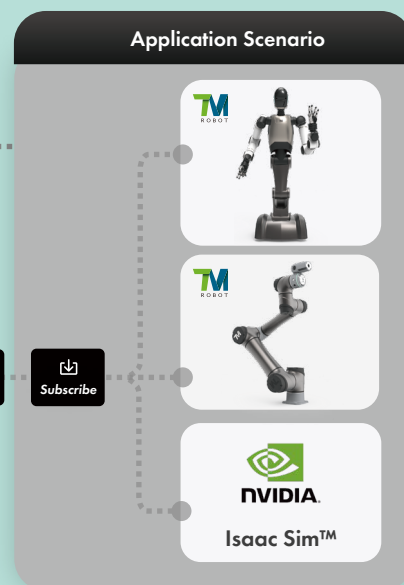
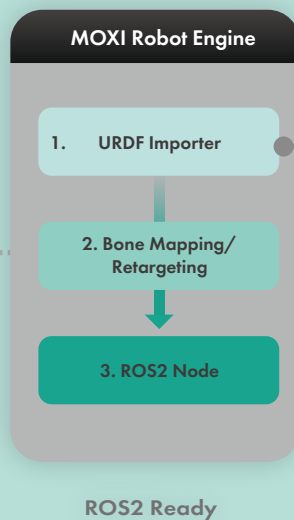
Advanced Wireless
Transponder

ROS



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

MOXI Player for Robot

For windows 10, 11

- MOXI Robot SDK
- URDF Importer*
- Bone Mapping / Retargeting

1.MOXI Receiver for Robot (in ROS2)

For Ubuntu (Linux) 22.04 / 24.04

- Supports Isaac SIM / Lab
- For ROS2 Humble and Jazzy editions on Linux

2.MOXI Receiver for Robot (in Python)

MOXI Robot Editor

For windows 10, 11

- Initial pose setting
- Controller position setting
- Merge urdf



MOXI sensor specs (For Europe & Japan)

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

Sensor Specifications (Built-in)

Sensor hub (x2) Dimensio & Weight	42mm x 9.12mm, 8g
Sensor unit (x12) Dimensio & Weight	32mm x 6.64mm, 3.8g
Dynamic accuracy	± 2°
Angular accuracy	Rounding to the 2nd decimal place
Data Output & streaming data rate	83Hz

Windows system requirements

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

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