

PERCEPTION NEURON LINK

LINK
ANTI-MAG HYBRID

Noitom PN Link



Wired Full-Body High-Precision Sensors

Immune to wireless interference with no limit on the number of devices in the same space. Features a new quick-donning suit design for easy wear, removal, and cleaning



Upgraded Sensor Algorithm with Anti-magnetic Capability

The upgraded sensor algorithm ensures stable and precise data capture even in magnetically complex and metal-dense environments.



Scalable to Optical/Inertial Hybrid Tracking

Its modular design allows for scalability into optical-inertial hybrid tracking, meeting the demand for absolute accuracy in end-effector and prop interaction.



Comprehensive APIs for Flexible Downstream Integration

Supports Windows and Linux development environments for versatile deployment.

PN Link, the latest wired inertial motion capture solution from Noitom, is engineered for continuous and uninterrupted data acquisition in complex environments. By utilizing a wired architecture, it enables the simultaneous capture of massive, high-precision motion data across multiple units within the same space and timeframe. The system can be expanded into a hybrid tracking mode to meet the demand for absolute accuracy in end-effector positioning and prop interactions.

Application

Embodied AI

Ideally suited for teleoperation of embodied intelligent agents.

Ergonomics

Delivers precise human motion data for interaction analysis.

Virtual Simulation

Enables multi-actor, large-scale motion capture for immersive virtual environments.

Digital Media

Provides full-body precision, from core kinematics to finger-level capture.

Specifications

Core Parameters	Number of Sensors	Inertial Sensors x 15+Motion Capture Gloves x 1 pair
	Sensor Dimensions	Inertial Sensor: 47 x 24 x 9 mm
	Main Processing Unit Dimensions	100 × 95 × 26 mm
	Warranty Period	1Year
	Operating Temperature	0°C~40°C
System	Device Connection	Supports both RJ45 (Wired) and Wi-Fi (Wireless) connections
	Device Power Supply	PoE and Type-C power delivery options
Suit & Wearables	User Height Range	155-185cm
	User Weight Range	40-90kg
Data	Data Capture Frame Rate	≥400Hz
	Time Synchronization	IEEE 1588 PTP protocol supported
	Interface Protocol	TCP/UDP protocols supported

PN Link (Full Body + Gloves) Configuration List

PN Link Main Processing Unit	1 unit	5m Ethernet Cable	1 unit
PN Link Inertial Sensors	15 units	Axis Studio Software License	1 set
PN Link Motion Capture Gloves	1 pair	Type-C Power Cable	1 unit
Full-Body Harness Suit	1 set	Explosion-Proof Carry Case	1 unit

PN Link Anti-magnetic Motion Capture System enables real-time motion data streaming and is compatible with both Windows and Linux platforms. With built-in IEEE 1588 synchronization protocol, it ensures precise third-party device synchronization for fast deployment. The system features a comprehensive plugin ecosystem for seamless integration with industry-standard software, along with an SDK supporting C/C++/C# for custom development via standard APIs. Ideal for Embodied AI, Ergonomics, Virtual Simulation, and Digital Media applications.



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