sharpa

AE01

A High-Fidelity Haptic Exoskeleton Data Glove



AE01

Exoskeleton Data Glove for Precise Teleoperation and Egocentric Data Capture.



Intuitive Haptic Feedback

Continuous haptics enables more intuitive, responsive, and precise control.

256 levels

Dynamic haptic feedback per fingertip

Precise Control

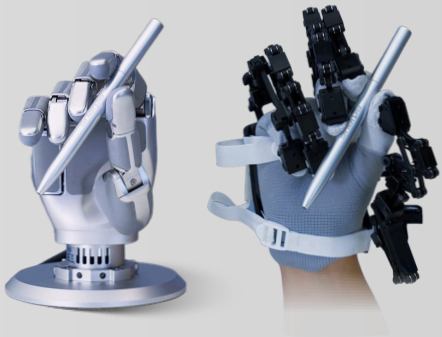
22 encoders directly capture the angles of 22 joints, providing comprehensive joint data for more intuitive teleoperation.

<1 mm

Fingertip position repeatability

22 DoF

Direct measurement





Instant and Reliable Teleoperation

Plug-and-play teleoperation requires no additional calibration and resists environmental interference.

Free

of calibration

Resistant

to environmental interference

Product Specifications

Hardware	
Degrees of Freedom	22 DoF
Haptic Feedback	5 LRA vibration motors, one per fingertip 256 dynamic levels per fingertip
Dimensions	183.5 × 176.82 × 89.27 mm
Size Options	S, M, L, XL
Fingertip Position Repeatability	<1 mm
Nominal Lifetime	>1,000,000 cycles
Operating Temperature	0 °C to 45 °C

Power & Communication	
Battery Life	> 3 h
Charging Time	1 h
Charging Interface	USB Type-C
Communication	Wired: USB 2.0 Type-C Wireless: USB Dongle, USB 2.0 Type-A
Data Output Frequency	Wired: 500 Hz Wireless: 150 Hz
Latency	Wired: 5 ms Wireless: 10ms
Wireless Range	Up to 30m, depending on environment

Software	
Host Computer Software	Sharpa Avatar
Software Tool	Avatar SDK
Data Output	Raw glove data, Sharpa Wave mapping data, Skeleton data



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