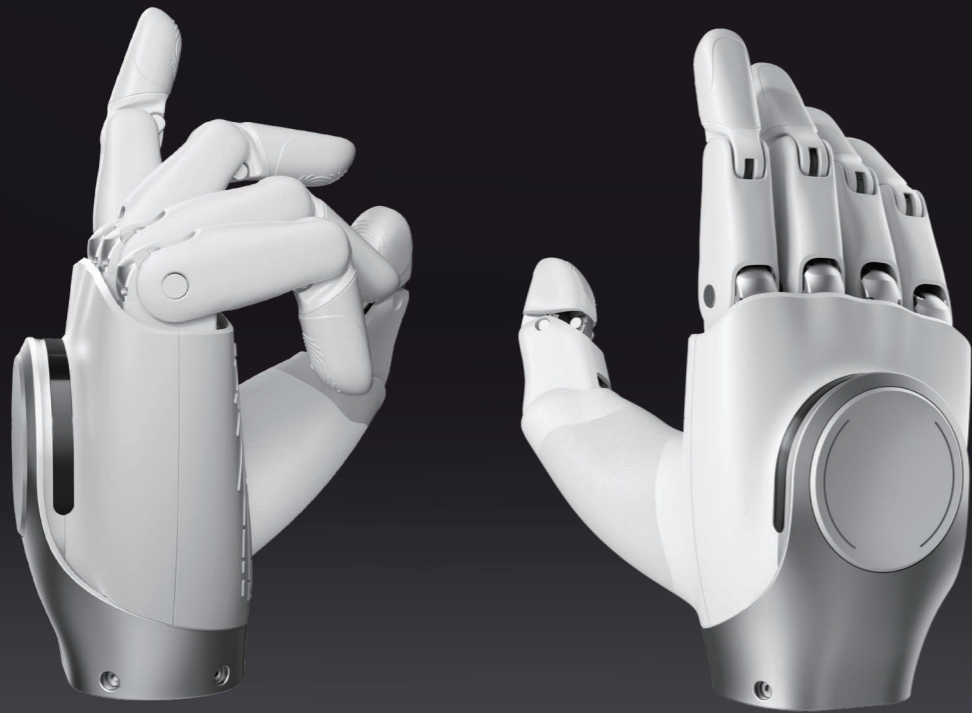


OmniHand

Standard · Versatile · Widely Deployed

OmniHand brings 16 degrees of freedom into a compact, lightweight form factor - engineered to integrate seamlessly across humanoid platforms, mobile manipulators, and research environments. Distributed tactile sensing, multi-modal interaction capability, and a price point built for scale make OmniHand the standard hand for programs that need dexterity at every step.

In active deployment across humanoid robotics, service applications, and academic research worldwide.



Features and Benefits

Built for Scalable Deployment

Compact, lightweight (510g), and designed for seamless integration with leading humanoid platforms and mobile manipulators. A standard hand engineered for programs that scale.

Versatile Interaction

10 active DoF plus 6 passive — covering common gestures, full grasp coverage, and an exclusive back-of-hand touch interaction. Built for human-robot collaboration that goes beyond grasping.

Distributed Tactile Sensing

Over 300 force-sensing taxels across the fingertips, palm, and back of hand, with an anti-pinch design for safe, gentle interaction with people and objects.

Specifications

Degrees of Freedom

10 + 6
active passive

Dimensions

180*85*38.5mm

Weight

510g

Payload

2kg **5kg**
stable grasping lifting

Opening/
Closing Time (Typ.)

0.5s

Repetitive
Positioning Accuracy

±0.3mm

Sensing
Approach (w/ Tactile)

1D

Force Sensing
Resolution (w/ Tactile)

0.1N

Compatibility : Mainstream humanoid robots and robotic arms · Dex-UMI · ROS 2 · SDK in Python and C++

Application Scenarios

Human-Robot Interaction



Gesture engagement, service tasks, friendly co-operation

Education Curriculum Development



Accessible platform for learning manipulation and prototyping projects

Mobile & Service Robotics



Light-duty grasping for delivery, hospitality, and assistance