



MEET MOVO ^{BETA}

YOUR TICKET TO LIMITLESS DISCOVERY



FACILITATING
TECHNOLOGY
RESEARCH

MOVO ^{BETA}

AN UNPRECEDENTED CONVERGENCE OF FEATURES

MOVO^{BETA} is a mobile manipulator platform designed to aid researchers and enable the discovery of innovative approaches and applications for mobile manipulation.

MOVO will offer a unique combination of performance, scalability, modularity, configurability and openness.



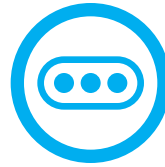
OPEN HIGH-END HARDWARE

Saves time and effort and allows you to focus on your research topic



ROS-NATIVE

Including MoveIt! and Gazebo integration



CONNECTIVITY

Ethernet, Wi-Fi, HDMI and USB



ENHANCED NAVIGATION

Navigates autonomously right out of the box



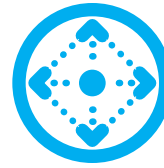
ASSISTED TELEOPERATION

You can drive MOVO while its sensors assist in preventing collisions



MAP CREATION

MOVO creates its own maps for autonomous navigation



SLAM

High-performance odometry, sensors and ease-of-use



A MULTITUDE OF
RESEARCH
FIELDS

AI



MOTION
PLANNING



MOVO BETA



SLAM

ADVANCED
SENSING



MOVO^{BETA} SPECIFICATIONS

Physical	Variable height torso	1,100 mm to 1,580 mm (43 in to 62 in)
	Base footprint	508 mm width X 810 mm depth (20 in X 32 in)
	Operational environment	Indoor: 5 °C to 40 °C (41 °F to 104 °F)
	Run time	8 h Normal usage
	Recharge time	5 h Standard
		2 h Fast charger
Manipulator	DOF	From 8 to 27 DOF
	Arm	0, 1 or 2 Kinova JACO ² arms
	Gripper	2 or 3 fingers
	Maximum linear arm speed	20 cm/s (7.8 in/s)
Mobile Base	Max speed	2 m/s (78.8 in/s)
	Drive	Holonomic
Sensors	Platform	2D Planar laser (front and rear)
	Head	Kinect for Xbox One
	Actuator	Position, velocity, torque, temperature
Computer	Navigation and perception	2 dedicated PCs
	CPU	Intel NUC Kit NUC5i7RYH
	RAM	16 GB
	Hard disk	128 GB SSD
Connectivity	Interfaces	HDMI, USB 3.0
	Communication	Ethernet, Wi-Fi
	Audio	3.5 mm audio input

**JOIN OUR
BETA PROGRAM**

kinovaMOVO.com

MOVO^{BETA} COMMUNITY: MOVO is now in BETA and we are looking for qualified people to collaborate, share their experience and inspiration, and help us discover new applications. Our launch is set for 2018 and we are looking for researchers working in different fields who would, in time, become the founding MOVO^{BETA} community.

KINOVA SUPPORT: Our dedicated support team will help BETA participants work with MOVO in their various respective applications. Mutual success is the objective.

THE ORIGINS OF MOVO: Kinova[®] has been a leader in the robotics space for more than a decade and is best known for its JACO robotic arm. MOVO will be the first of Kinova's mobile manipulator product line.



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