



SARCOS

ROBOTICS

Leading the charge in robotic systems designed to maximize workforce potential through increased safety and efficiency.

Intuitive Manipulation

Sarcos Imitative Controller

As robotic systems become more dexterous, so does the need for a controller that can keep pace with ever-evolving technology. The Sarcos Imitative Controller (IC) provides an intuitive and easy-to-learn method of control for any dexterous robot, such as the Sarcos Sapien 6M and Sapien Sea Class arms.

Based on the design of “puppet controllers,” the Imitative Controller allows users to move a scaled model of the robot’s manipulators. This establishes a leader-follower teleoperation between the controller and the robot, providing users with fast and efficient time to proficiency.

In fact, numerous IC expositions and training exercises have demonstrated that in less than one-minute, new users are trained sufficiently to control a highly dexterous manipulation system, and proficiency with the system is achieved in less than one hour.



Features

- ▶ Provides full operator control of the manipulator
- ▶ Provides full operator control of the robot itself, as well as cameras and sensors
- ▶ Intuitive, one-to-one mapping of the Imitative Controller to the manipulation system's DoF (exclusive of continuous roll joints)
- ▶ Auxiliary control and enable buttons allow for comfortable use, including torso tilt, continuous wrist roll, and gripper open/close

Benefits

- ▶ Intuitive and coordinated control over each joint in the manipulator, allowing for full control and position accuracy
- ▶ Immediate physical confirmation of the robot's specific positions and orientations
- ▶ Practical design uses natural arm and hand motions, allowing user's hands to remain in similar position to robot's end effectors for intuitive control
- ▶ Joint limits match those of the robot, allowing operators to utilize full dexterity of the robot
- ▶ Provides control of the robot from a safe, stand-off distance, whether the user is several feet or several miles away



Sarcos Imitative Controller Technical Specifications

Specifications	
Degrees of Freedom (DoF)	5 or 7 per arm, custom configurations possible
Communication	Standard USB
Portability	Unit is easily disassembled and stowed in rugged protective case (excluding stand)
Power	Standard AC or DC adapters available



See how Sarcos Robotics
can transform your workplace
safety and efficiency.

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