

BOXER™

INDOOR ROBOTIC PLATFORM



INDUSTRIAL-GRADE ROBOTIC PLATFORM FOR RESEARCH & DEVELOPMENT



RUGGED & RELIABLE

Boxer is built with industrial-grade components to withstand harsh indoor environments and move heavy payloads, including collaborative robotic arms, with ease.

ROS READY

Programming complex applications is simple with the open-source Robot Operating System (ROS). Boxer is supported in Gazebo Physics Simulator, RViz and MoveIt! Motion planner.

EASY INTEGRATION

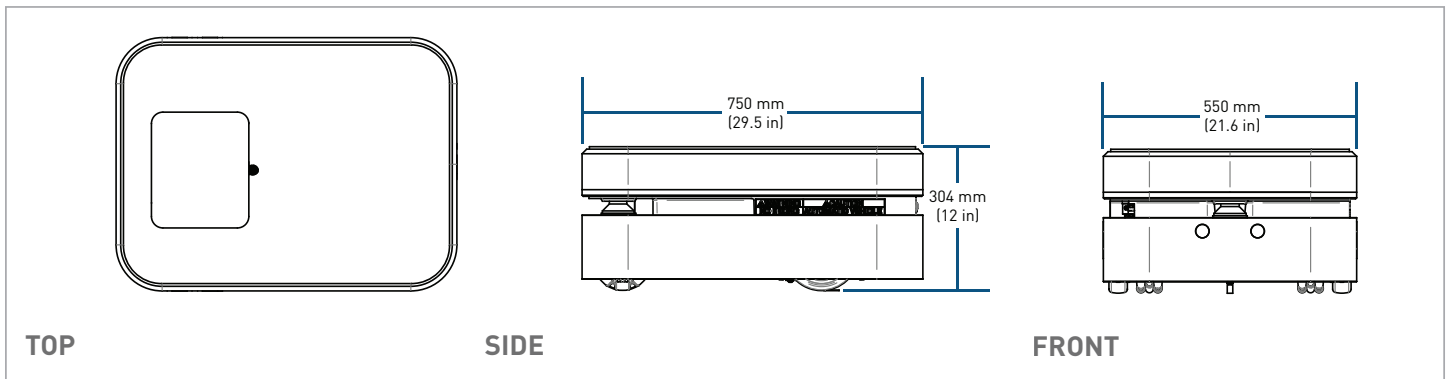
Boxer is designed for rapid integration with third-party sensors and manipulators - plug it in and go! Payloads are easily added with flexible mounting, accessible on-board power and reconfigurable I/O. Mobile robot prototyping is fast and easy with Boxer.

A FEW OF THE INNOVATIVE FIRMS WHO USE OUR ROBOTS



Contact us today for pricing and a free 30 minute technical assessment: 1-800-301-3863

TECHNICAL SPECIFICATIONS



SIZE AND WEIGHT	
EXTERNAL DIMENSIONS (L x W x H)	750 x 550 x 304 mm (29.5 x 21.6 x 12 in)
WEIGHT	127 kg (280 lbs)
SPEED AND PERFORMANCE	
PAYLOAD	100 kg (220 lbs)
MAX SPEED	2.0 m/s (4.47 mph)
MAX ACCELERATION	1.0 m/s ²
INTEGRATED LIFT	50 mm (2") Stroke, 100 kg capacity
TURNING RADIUS	0 mm
MAX GRADE	1% / 0.5°
DRIVE CONFIGURATION / ENVIRONMENT	Differential Drive / Indoor
OPERATING TEMPERATURE RANGE	0°C to 40°C (32°F to 104°F)
BATTERY AND POWER SYSTEM	
BATTERY CHEMISTRY	Lithium-ion
CAPACITY	60 Ah 24 V Nominal
POWER SUPPLY	12V & 24V @ 10A
RUNTIME	12 hr
CHARGE TIME	4 hr
INTERFACING AND COMMUNICATION	
CUSTOM INTERFACING	3x Ethernet, 2x USB 3.0, E-Stop Extension, 12V Regulated Power (up to 10A), 24V Regulated Power (up to 10A), Unregulated Battery Power (up to 10A), LED Light Control Interface
WIFI	802.11 ac/a/b/g/n, 2.4 Ghz, 5 Ghz
SENSORS	Primary LIDAR 10m Range 260° FOV, Forward Stereo Camera System, Rear Facing Sonar, Odometry
DRIVERS/APIs	ROS, Gazebo, LED Light Control, RViz & URDF Support
INTERFACE	Emergency Stop Buttons, 360° RGB LED Array,
OPTIONAL ACCESSORIES	Manipulators, Grippers, Cameras, Stereo Cameras, IMU, 2D Laser Rangefinders, 3D Laser Rangefinders

CONTACT US FOR MORE INFORMATION

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