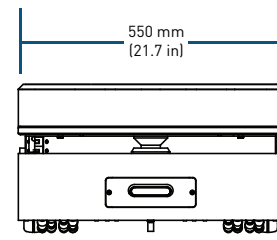
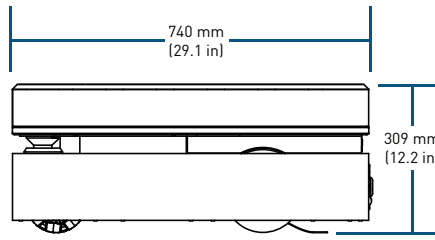
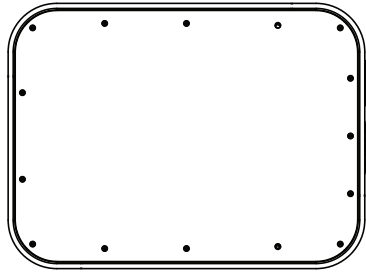


BOXER™

INDOOR ROBOTIC PLATFORM



TOP

SIDE

FRONT

SIZE AND WEIGHT	
EXTERNAL DIMENSIONS (L X W X H)	740 X 550 X 309 mm (29.1 X 21.7 X 12.2 in)
WEIGHT	107 kg (236 lb)
SPEED AND PERFORMANCE	
PAYLOAD	150 kg (331 lb)
MAX SPEED / ACCELERATION	2.0 m/s (4.5 mph) / 1.0 m/s ²
SUSPENSION	Fixed
INTEGRATED LIFT	Up to 83 mm (2.44 in) stroke, up to 150 kg capacity
TURNING RADIUS / DRIVE CONFIGURATION	0 mm / Rear-wheel differential drive
MAX GRADE	Up to 1° for typical applications
DOCKING REPEATABILITY - FREE SPACE	Down to ±10 mm positional, ±1° angular; dependent on environment
DOCKING REPEATABILITY - AUTOCHARGE DOCK	Down to ±4 mm lateral, ±10 mm longitudinal, ±0.5° angular; dependent on environment
TEMPERATURE RANGE OPERATION / STORAGE	20 °C to 40 °C (68 °F to 104 °F) / -20 °C to 30°C (-4 °F to 86 °F)
BATTERY AND POWER SYSTEM	
BATTERY CHEMISTRY / CAPACITY / VOLTAGE	Lithium iron nanophosphate / 924 W-h / 19 - 32 V
USER-FACING POWER INTERFACE	Unregulated, unswitched battery voltage, 12 A maximum
RUNTIME - NAVIGATING / STATIONARY	Approx. 6 hr / Up to 16 hr
CHARGE TIME - AUTODOCK / MANUAL	20 min / 4.5 hr
INTERFACING AND COMMUNICATION	
INTERNAL COMPUTER INTERFACE	ROS2 API
ROS COMPUTER (Optional)	Vecow ECX-2000 series or EVS-2000 series
VISUAL COMMUNICATION	360° LED light pipe for status indication
PAYLOAD INTERFACE	1X Ethernet, RJ-45 female, PoE, 1X USB 3.0a Type A female, 8X Digital inputs, 8X Digital outputs E-stop loop breakout, dual-channel, Serial interface, RS-232, 2-wire, 2X safety relay dry contacts Emergency stop reset interlock
WIFI	802.11 ac/a/b/g/n, 2.4 Ghz, 5 Ghz
SAFETY & NAVIGATION SENSOR	Hokuyo UAM-05LP 2D LiDAR, 270° FoV, 5 m safety-rated protective field range, 20 m non-safety-rated warning field range
REVERSING SENSOR / 3D OBSTACLE SENSOR	Pepperl+Fuchs R2100 2D LiDAR, 88° FoV / Intel RealSense D435
DRIVERS / APIs	ROS1 Noetic or ROS2 Foxy, Gazebo, LED Light Control, RViz & URDF Support

CONTACT US FOR MORE INFORMATION

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