

Mobile Robots LD Series



Autonomous Intelligent Vehicles (AIVs), self-mapping, self-navigation.

- Natural-feature navigation
Automatically plans routes to prevent collisions
- Fleet management
Supervises and coordinates the entire fleet of up to 100 vehicles
- Easy deployment
Short installation time: no facilities modifications





Ordering Information

Mobile Robots-LD Platform

Appearance	Product Type	Product Name	Maximum Load	Maximum Speed	Configuration & Attachment*		Model
	OEM	LD-60	60 kg	1.8 m/s	Standard	-	37031-00000
					Docking Station kit	Docking Station :12477-000 Battery Power Cable (0.45 m) :12676-000L	37031-00002
					Starter kit	Top Plate :12944-000 Joystick :13558-000 MobilePlanner Software license :13495-200 Docking Station :12477-000 Battery Power Cable (0.45 m) :12676-000L	37031-10004
	Cart Transporter	LD-90	90 kg	1.35 m/s	Standard	-	37041-00000
					Docking Station kit	Docking Station :12477-000 Battery Power Cable (0.45 m) :12676-000L	37041-00002
					Starter kit	Top Plate :12944-000 Joystick :13558-000 MobilePlanner Software license :13495-200 Docking Station :12477-000 Battery Power Cable (0.45 m) :12676-000L	37041-10004
		LD-105CT	105 kg	1.35 m/s	Standard	Touchscreen :13605-000 Side Laser :13456-000	37141-00010
					Docking Station kit	Touchscreen :13605-000 Side Laser :13456-000 Docking Station :12477-050 Battery Power Cable (0.45 m) :12676-000L	37141-00012
					Starter kit	Touchscreen :13605-000 Side Laser :13456-000 Docking Station :12477-050 Battery Power Cable (0.45 m) :12676-000L MobilePlanner Software license :13495-200 Acuity Localization :13700-000 Joystick :13558-000 Cart :75020-000	37141-01014
		LD-130CT	130 kg	0.9 m/s	Standard	Touchscreen :13605-000 Side Laser :13456-000	37161-00010
					Docking Station kit	Touchscreen :13605-000 Side Laser :13456-000 Docking Station :12477-050 Battery Power Cable (0.45 m) :12676-000L	37161-00012
					Starter kit	Touchscreen :13605-000 Side Laser :13456-000 Docking Station :12477-050 Battery Power Cable (0.45 m) :12676-000L MobilePlanner Software license :13495-200 Acuity Localization :13700-000 Joystick :13558-000 Cart :75020-000	37161-01014





*Note: Battery 18578-000 must be ordered separately for a complete robot.

Software/Controller



Appearance	Product Name	Configuration & Attachment	Model
	MobilePlanner	Installer (USB) * License dongle	13495-200
	Enterprise Manager 1100	License dongle	11167-100

* .The latest version of MobilePlanner can be downloaded from Omron Adept Technologies Inc. website.
<http://www.adept.com/Robots-Mobile>

Options

Appearance	Product Name	Specification	Configuration & Attachment	Model
	High Accuracy Positioning System	Single sensor	Sensor × 1 , Mounting bracket × 1, Power connector × 1 , RS-232 connector × 1 , 25 mm wide magnetic tape South top side. 50 m roll	13660-100
		Double sensor	Sensor × 2 , Mounting bracket × 2, Power connector × 1 , RS-232 connector × 2 , 25 mm wide magnetic tape South top side. 50 m roll	13660-000
		Magnetic tape	25 mm wide magnetic tape South top side. 50 m roll	14925-000
	Acuity Localization	-	Camera, Mounting Kit, Cables, Leveling kit	13700-000
	Touchscreen	Bundle	Touchscreen with bracket, Power supply with bracket, Power Cable, from core to power supply (33 cm in length), Power Cable, from power supply to touchscreen (183 cm in length), Ethernet Cable, between touchscreen and core (153 cm in length), Gasket, between touchscreen and AIV mounting surface, Software package, including touchscreen support	13605-000
-	Side Laser	Bundle	Laser × 2, Cable × 1 (Y Cable for 2 Laser)	13456-000
		Kit	Laser × 2, Cable × 1 (Y Cable for 2 Laser), Mounting kit × 2, Metal Cover × 2	13456-100
	Call/Door Box	WiFi Wired	Call/Door Box, Cable	13029-802

Accessories

Appearance	Product Name	Specification	Configuration & Attachment	Model
	Battery	Required	Must be ordered with each robot.	18578-000
	Docking Station	-	Docking Station, AC Power Cable	12477-000
		Extended Wall mount	Docking Station, AC Power Cable, Extended Wall mount (for Cart Transporter)	12477-050

Item		OEM		Cart Transporter		Note
		37031-□□□□□	37041-□□□□□	37141-□□□□□	37161-□□□□□	
Mobility	Maximum speed	1800 mm/s	1350 mm/s	1350 mm/s	900 mm/s	
	Maximum rotation speed	180°/s	180°/s	100°/s		
	Stop position accuracy	± 100 mm: Position *, ± 2°:Rotation				*. ±10 mm: Position, ±0.5°: Rotation with option, (High Accuracy Positioning System)
Drive wheel	Materials	Non-marking Nylon foam-filled rubber, non-conductive				
	Size	200 dia. × 50mm nominal, 2 wheels				
Passive caster	Materials	Conductive thermoplastic rubber on Polyolefin				
	Size	75 dia. × 41 mm nominal, 4 casters				
Power	Battery	22-30 VDC				
	Capacity	72 Ah Battery cell nominal capacity				
	Run time	15 hours (continuous) approx.				With no payload condition
	Recharge Time	4 hours (5:1 ratio) approx.				
	Battery Life cycles	2000 recharge cycles (Battery cell nominal)				
	Charging method	Automatic / Manual				
	Auxiliary Power	5 VDC±5%, 1 A Switched Aux power 12 VDC±5%, 1 A Switched Aux power 20 VDC±5%, 1 A Switched Aux power 22-30 VDC, 4 A Switched × 2 22-30 VDC, 10 A Switched * 22-30 VDC, 10 A Safe, Switched *				5, 12, 20, and 22-30 VDC power can be provided to external devices. *. 10 A Switched and 10 A Safe, Switched share the 10 A of current.
Standard	Safety Standard	EN1525 / JIS D6802 / ANSI B56.5				
	Wireless	IEEE 802.11 a/b/g				
Safety Features	Safety Scanning Laser	1 at front Class 1 PLd Safety per ISO13849-1 Maximum range: 15 m Field of view: 240°				
	Emergency Stop	1 at Operator panel		1 at HMI post touchscreen, 1 at Operator panel		
	Rear sonar	2 at rear, 2 m range				Each pairs is one emitter and one receiver, working together
	Front Bumper	1 at front of platform, 2pairs of sensors				
	Low Front Laser	1 at front of platform Class 1 Maximum range: 4 m Field of view: 270°				
	Side Laser	Option *		2 on horizontal tubes of HMI post Class 1 Maximum range: 4 m Field of view: 270°		*. 2 on sides of payload structure, user-mounted
	Flash light	Light Disc in each side		Light Disc in each side, Beacon on HMI post		
	Speaker	3.5", 80 W max.				
Operator Interface	Screen / Touch panel	3.5 in. TFT 320 × 240 pixels, 256 K color screen		7.0 in. TFT LCD touch panel , 18/24 bit RGB		
	Button	ON Button: Green, OFF Button: Red, Brake-release button: Orange, Keyswitch (Disabled OFF Button)		ON Button: Green, OFF Button: Red, Brake-release button: Orange, Keyswitch (Disabled OFF Button), Latch Button, Unlatch Button		
User I/F	Wireless	IEEE 802.11 a/b/g				
	Ethernet port	1 × User LAN , 1 × Maintenance LAN, Auto-MDIX				
	Serial	RS-232 × 2, CAN Bus B × 1				
	Digital I/O	16 inputs, 16 outputs				
	Analog I/O	8 inputs (0 to 30 V), 4 outputs (0-20 V)				
	Audio	Digital Audio Out, Audio In / Audio Out				
Cart Latching	Latching method	Not available		Automatic		

LD Series

MobilePlanner

Model	13495-200
Operating system	Windows 7 (32-bit/64 bit version) / Windows 8 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version)
CPU	1.5 GHz dual-core CPU recommended
Main memory	1.5 GB min. (4 GB min. recommended)
Hard disk	At least 200 MB of available space
Video memory	256 MB min.
Display	XGA 1024 × 768, 16 million colors
Communications ports	USB port (for license key)
Supported languages	Japanese, English

Enterprise Manager 1100

Model	11167-100
Dimensions- W × D × H	426.0 × 438.4 × 42.4 mm
Weight	6.8 kg
Mounting method	1U rack mount in a standard 19-inch equipment rack
Power Supply	100-240 VAC *
Power Consumption	200W max.
Operating Temperature	10 to 35 °C
Storage Temperature	-25 to 60 °C
Operating Humidity	8 to 90%, non-condensing
Storage Humidity	5 to 95%, non-condensing
Chassis protection class	IP20
CPU	Intel® Xeon® CPU
Main Memory	4 GB DDR3
Storage	32 GB SSD
Communication port	10/100/1000 Ethernet × 4, USB × 4, VGA

*. typical 100 W

High Accuracy Positioning System

Model		13660-□00
Sensor	Depth	30 mm
	Width	160 mm
	Rating	IP64
	Environment	-40 to 85 °C
	LEDs	Power, Tape present, Left marker, Right marker
Magnetic Tape	Width	25 mm
	Orientation	South up
Markers (Magnetic Tape)	Width	25 mm
	Length	300 mm min. for 500 mm/s drive speed
	Orientation	North up
	Separation from tape	15 - 30 mm
Connections	Front sensor	RS232-1 (/dev/ttyUSB9) on the core
	Rear sensor	RS232-2 (/dev/ttyUSB10) on the core
	Power, both sensors	Aux Power, using the included splitter cable

Acuity Localization

Model	13700-□00
Field of View	140°
Power Input	12 VDC (±10%) supplied from platform, through power connector
Power Consumption	3.3 W maximum

Touchscreen

Model	13605-000
Touch Panel	PCAP touch sensor, 5 simultaneous touches, black bordered cover lens
TFT Display	TFT LCD panel, 18/24 bit RGB parallel interface. 7.0 in. WVGA - Wide Viewing Angles, 5-Touch
Backlight	Constant current LED supply
Power Input	5 VDC supplied through power connector
Power Consumption	6.5 W maximum

Call/Door Box

Model	13029-802
Dimensions- W × D × H	141.4 × 74.7 × 30 mm
Weight	190 g
Mounting method	Mount to the provided wall frame with four screws
Power Supply	12 VDC
Power Consumption	0.5 A, 6 W typical
WiFi	IEEE 802.11 a/b/g/n
Communication port	Ethernet
I/O	Input × 2, Output × 2 (30 VDC, 2 A max)

Battery

Model	18578-000
Run-time (no payload)	15 hours (continuous) approx.
Weight	19 kg
Voltage	22-30 VDC
Capacity	72 Ah (Battery cell nominal)
Recharge time	4 hours, approx.
Life time	2000 times 80% DOD (Battery cell nominal), 7 years, approx., 16 hrs/day, 5 days/wk 4 years, approx., 19/7 (full-time)

Docking Station

Model	12477-0□0
Current	8 A *1
Contacts	2
Power	100 to 240 VAC, 50 to 60 Hz
Power consumption	800 W
Humidity	5 to 95 % non-condensing
Temperature	5 to 40 °C
Dimensions- W × D × H	349 × 369 × 315 mm (495 × 495.5 × 317 mm) *2
Weight	8.2 kg
Mounting	Wall bracket, directly to floor, or on floor with floor plate
Indicators	Power on - blue Charging - yellow
Connector	For out-of-platform battery charging

*1. Thermal fuse in AC power switch (10 A Time-lag fuse at switch for legacy dock)

*2. () for with Floor plate

Joystick

Model	13558-000
Weight	550 g
IP rating	IP56

Cart

Model	75020-000
Dimension (L × W × H)	592 × 846 × 480 mm
Weight	23 kg
Rating	ESP rated
Passive Casters	2 front, 2 rear, spring-loaded
Caster diameter	100 mm nominal
Caster Brakes	at 2 rear casters

Components and Functions

OEM

Operator Panel

Power ON/OFF, Emergency Stop, Brake Button with 3.5 inch color monitor

WiFi antenna
IEEE 802.11 a/b/g

Top Plate (Option)

Upper plate come with Starter Kit.
It is not necessary for building customer payload.

Rear Sonar

Obstacle sensor to detect rear side based on Sonar.



Light Discs

Status indicator. Located both side

Front Bumper

Stop when it hits obstacle

Low Front Laser

Obstacle sensor to detect low profile object in the forward direction.

Safety Scanning Laser

Safety rated Laser using for SLAM (Simultaneous localization and mapping).
It is also used for safety functionality.

Cart Transporter

Operator Panel

- 7" Color touchscreen. (Status, Goal input)
- WiFi antenna×2
- Emergency Stop
- Power ON/OFF
- Brake Button
- Latch/Unlatch buttons for Cart
- Beacon
- Acuity Localization (Option)



Rear-facing Laser

Obstacle laser scanner to detect rear side.

Side Laser

Obstacle laser scanner to detect vertically

Cart

Automatically latch/unlatched cart with manual break. Latching/Unlatching can be controlled by Software.

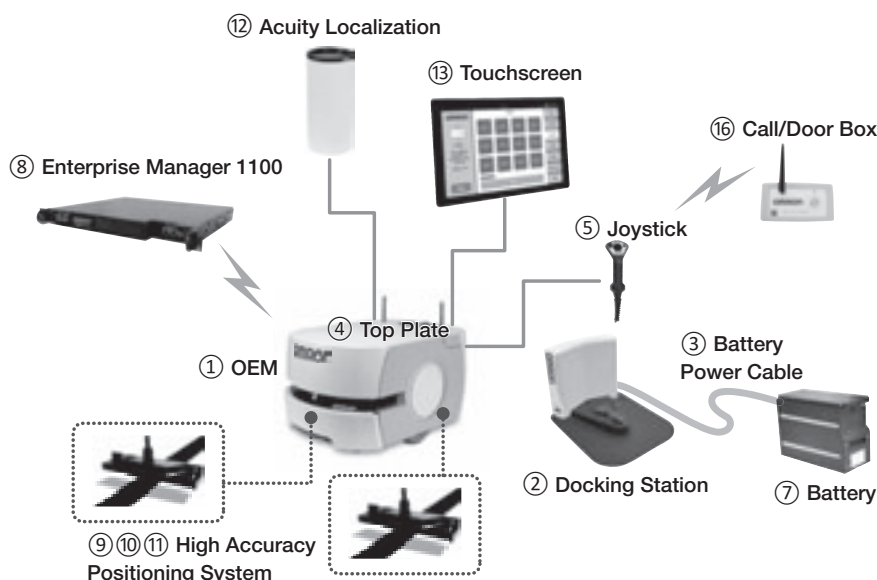
OEM

OEM with Cart Latching plate

LD Series

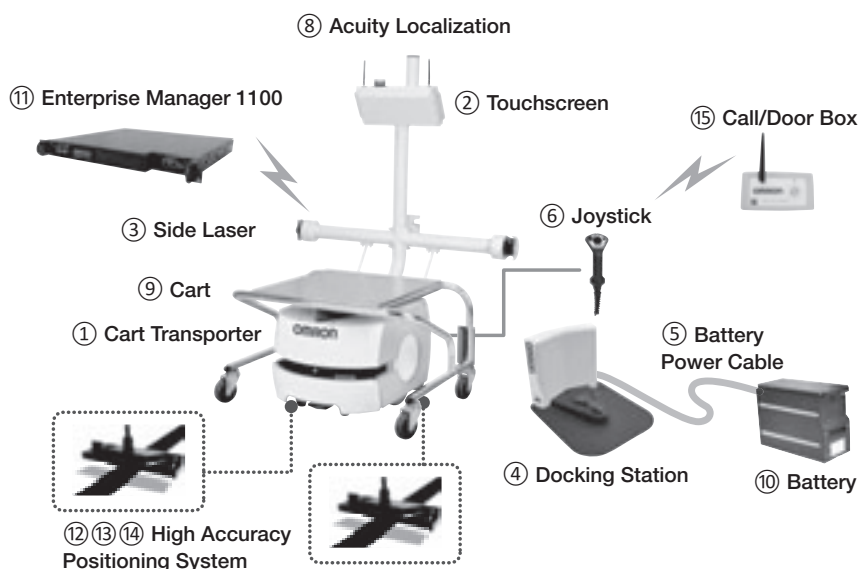
System Configuration

OEM



	Product Name	Model	Description	Docking Station kit/Starter kit	
①	OEM	370□1-00000	A Mobile Robot OEM. The Battery is not included.	Included in Docking Station kit and Starter kit	
②	Docking Station	12477-000	A docking station to charge the Battery installed in the Mobile Robot.	Included in Docking Station kit	
③	Battery Power Cable	12676-000L	A cable to connect a Battery and Docking Station to charge the Battery outside of the Mobile Robot.		
④	Top Plate	12944-000	A upper plate of the Mobile Robot OEM. It is not necessary for building customer payload.	Included in Starter kit	
⑤	Joystick	13558-000	Used for manually controlling the Mobile Robot.		
⑥	MobilePlanner	13495-200	PC software to configure, drive and observe the Mobile Robot, including a USB license dongle.		
⑦	Battery	18578-000	A Battery that is installed in the Mobile Robot.	-	
⑧	Enterprise Manager 1100	11167-100	A system that manages a fleet of Mobile Robots, including a network appliance, software, and a USB license dongle.	-	
⑨	High Accuracy Positioning System (Single sensor)	13660-100	A sensor and magnetic tape to achieve accurate alignment when the Mobile Robot follows driving forward. The sensor is attached to the Mobile Robot.	-	
⑩	High Accuracy Positioning System (Double sensor)	13660-000	Two sensors and magnetic tape to achieve accurate alignment when the Mobile Robot follows driving both forward and backward. The sensors are attached to the Mobile Robot.	-	
⑪	Magnetic tape	14925-000	Magnetic tape for the High Accuracy Positioning System. The tape is applied to signal the Mobile Robot where to stop.	-	
⑫	Acuity Localization	13700-000	Used where process layout or obstacle location changes often. Installed on a payload structure attached to the Mobile Robot.	-	
⑬	Touchscreen	13605-000	Allows operators to check the status of the Mobile Robot, enter goals, and pause the Mobile Robot. Installed on a payload structure attached to the Mobile Robot.	-	
⑭	Side Laser Bundle	13456-000	Used to detect obstacles that are at heights the safety scanning laser of the Mobile Robot cannot detect. Installed on a payload structure attached to the Mobile Robot.	-	
⑮	Side Laser Kit	13456-100	Includes the above mentioned Side Laser, mounting kit, and metal covers to protect from lasers.	-	
⑯	Call/Door Box	13029-802	Used to issue a request for a Mobile Robot to go to the goal or to open a closed door. Installed at the goal or door to open.	-	
⑰	Breakout Cable	14165-000	A D-SUB44 pin cable for digital I/O interface of the Mobile Robot.	-	

Cart Transporter



	Product Name	Model	Description	Docking Station kit/Starter kit	
①	Cart Transporter	371□1-00000	A Mobile Robot Cart Transporter. The Battery is not included.	Included in Docking Station kit and Starter kit	
②	Touchscreen	13605-000	Allows operators to check the status of the Mobile Robot, enter goals, and pause the Mobile Robot. Installed on a payload structure attached to the Mobile Robot.		
③	Side Laser	13456-000	Used to detect obstacles that are at heights the safety scanning laser of the Mobile Robot cannot detect. Installed on a payload structure attached to the Mobile Robot.		
④	Docking Station	12477-000	A docking station to charge the Battery installed in the Mobile Robot.	Included in Docking Station kit	
⑤	Battery Power Cable	12676-000L	A cable to connect a Battery and Docking Station to charge the Battery outside of the Mobile Robot.		
⑥	Joystick	13558-000	Used for manually controlling the Mobile Robot.	Included in Starter kit	
⑦	MobilePlanner	13495-200	PC software to configure, drive and observe the Mobile Robot, including a USB license dongle.		
⑧	Acuity Localization	13700-000	Used where process layout or obstacle location changes often. Installed on a payload structure attached to the Mobile Robot.		
⑨	Cart	75020-000	A cart designed for Mobile Robot Cart Transporter.		
⑩	Battery	18578-000	A Battery that is installed in the Mobile Robot.	-	
⑪	Enterprise Manager 1100	11167-100	A system that manages a fleet of Mobile Robots, including a network appliance, software, and a USB license dongle.	-	
⑫	High Accuracy Positioning System (Single sensor)	13660-100	A sensor and magnetic tape to achieve accurate alignment when the Mobile Robot follows driving forward. The sensors are attached to the Mobile Robot.	-	
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LD Series

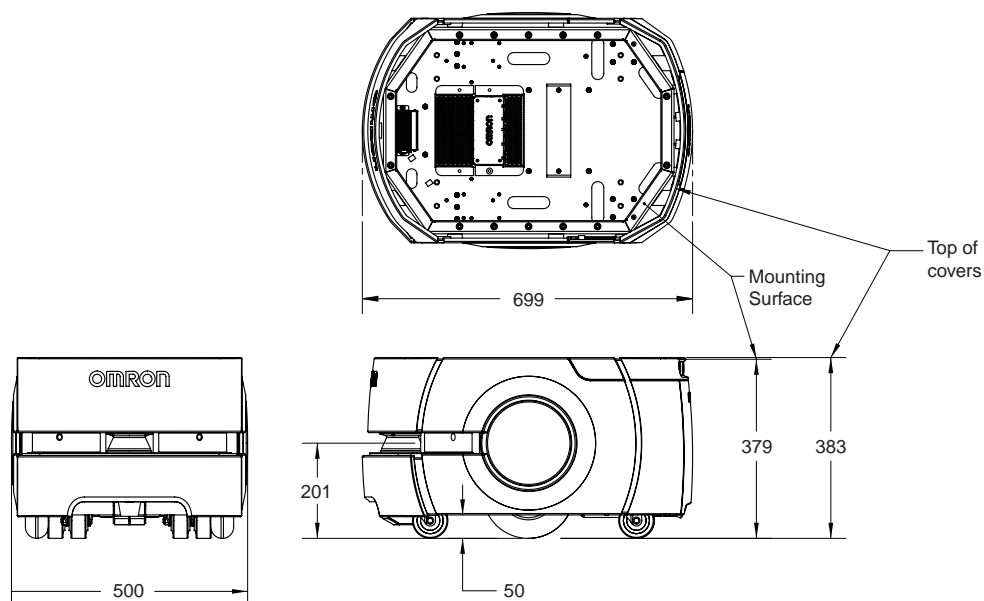
Dimensions

CAD data can be downloaded from Omron Adept Technologies Inc. website.
<http://www.adept.com/Robots-CAD-File>

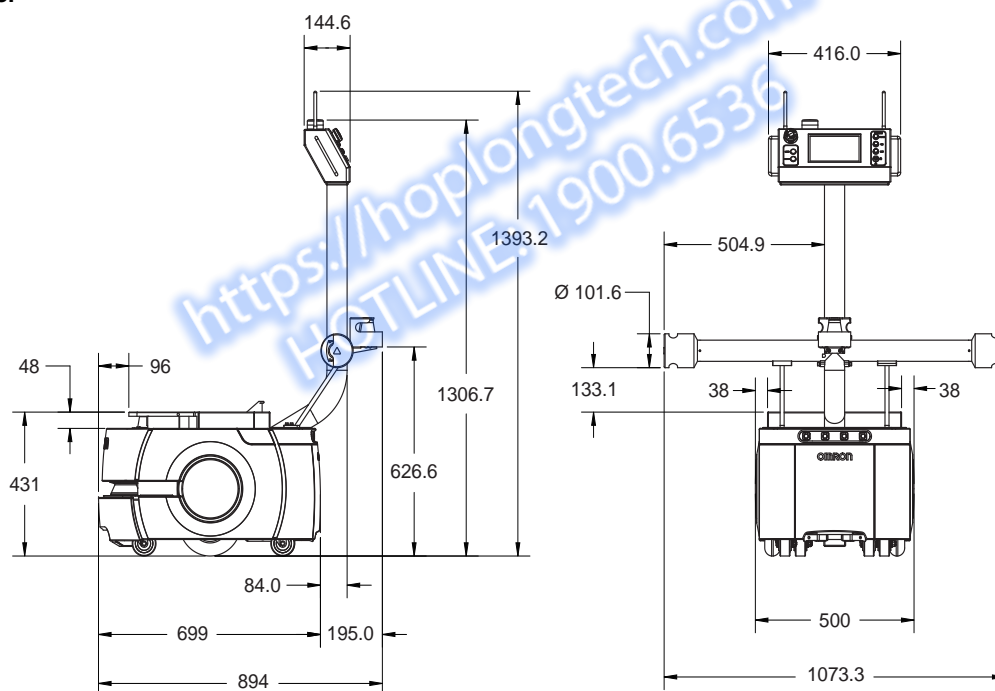
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Mobile Robots-LD Platform

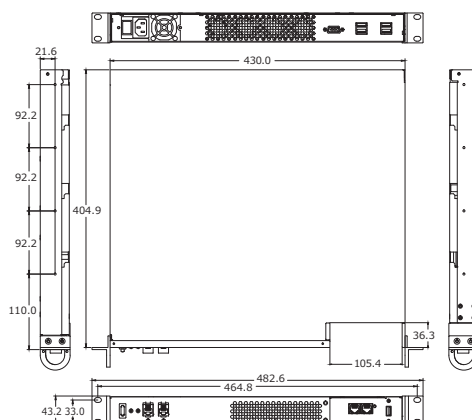
OEM



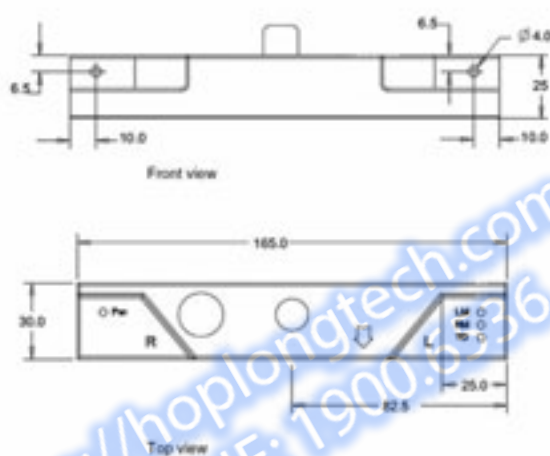
Cart Transporter



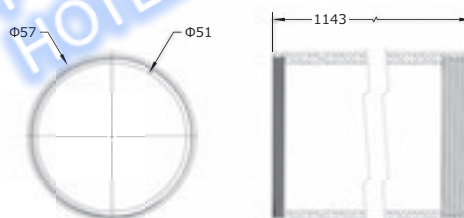
Enterprise Manager 1100



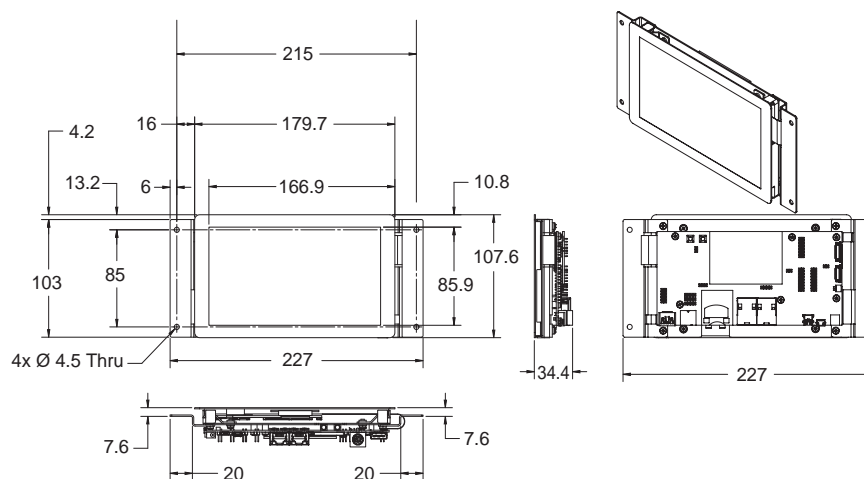
High Accuracy Positioning System



Acuity Localization



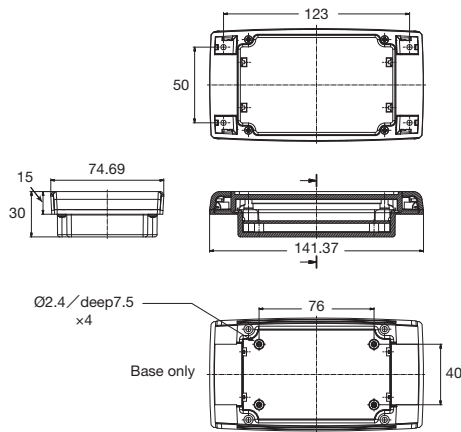
Touchscreen



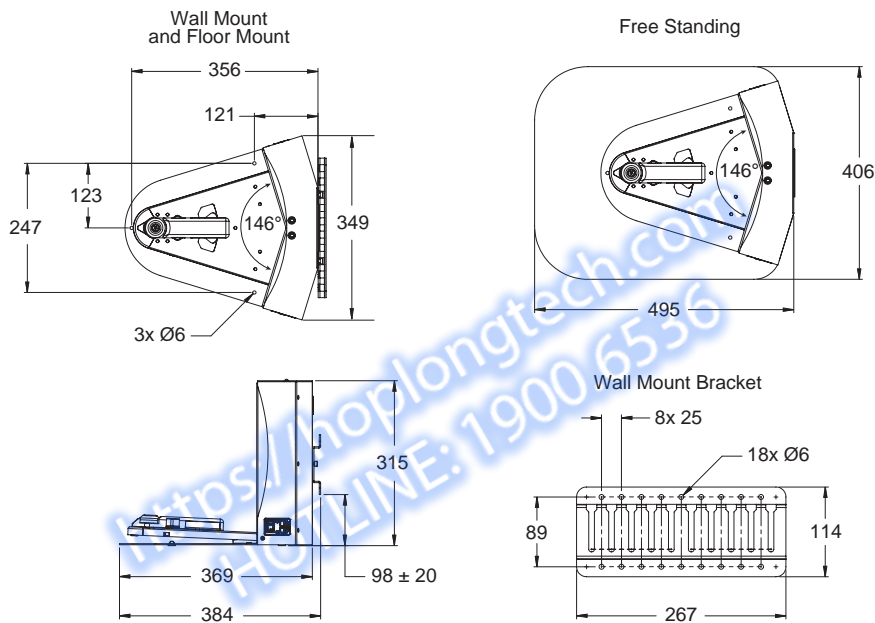
LD Series

(Unit: mm)

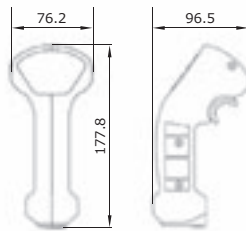
Call/Door Box



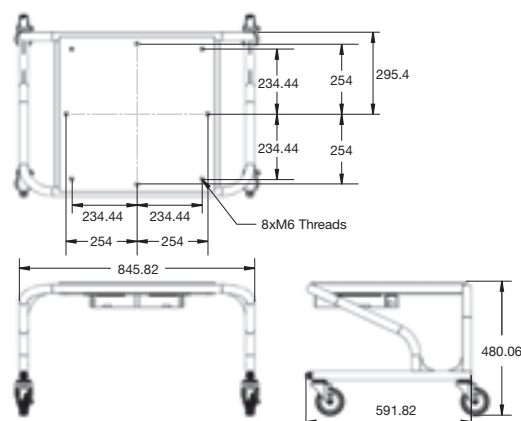
Docking Station



Joystick



Cart



Related Manuals

Manual No.	English title
I611	Mobile Robots LD Platform User's Guide
I612	Mobile Robots LD Cart Transporter User's Guide
I613	Mobile Robots LD Platform Peripherals Guide
I614	Mobile Robots Software Suite User's Guide
I615	Enterprise Manager 1100 User's Guide
I616	Mobile Robot Safety Guide
I617	Advanced Robotics Command Language Reference Guide
I618	Advanced Robotics Command Language Enterprise Manager Integration Guide

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- Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
- Frequency Inverters

Vision, Measurement & Identification

- Vision Sensors & Systems • Measurement Sensors • Auto Identification Systems

Sensing

- Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
- Rotary Encoders • Ultrasonic Sensors

Safety

- Safety Light Curtains • Safety Laser Scanners • Programmable Safety Systems
- Safety Mats and Edges • Safety Door Switches • Emergency Stop Devices
- Safety Switches & Operator Controls • Safety Monitoring/Force-guided Relays

Control Components

- Power Supplies • Timers • Counters • Programmable Relays
- Digital Panel Meters • Monitoring Products

Switches & Relays

- Limit Switches • Pushbutton Switches • Electromechanical Relays
- Solid State Relays

Software

- Programming & Configuration • Runtime