





AUTONOMOUS INTELLIGENT VEHICULES LD Mobile Robots

www.bibusfrance.fr

Modernize Your Workflow

Our mobile robots are Autonomous Intelligent Vehicles (AIVs) designed to dramatically increase productivity in manufacturing and logistics operations. In addition to making your employees more efficient by allowing them to focus on tasks that require complex human skills, our mobile robots increase throughput, reduce machine dwell time, eliminate errors and improve material traceability.

Flexible

Customizable Payload Designs

- · Easy conveyor-top integration
- · Supports collaborative robotic arm
- · Transports carts and totes
- · Power, IO, Wi-Fi

Safe

Full safety compliance

- · Works collaboratively with people
- · Able to avoid static and moving obstacles
- · Easy addition of E-Stop equipment

Easy to deploy

With true natural-feature navigation

- · Reduces cost: no facilities modifications
- · No need to pre-program path
- · Self-mapping with onboard PC
- · Short installation time





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Efficient

Optimize your operations

Uses shortest allowable path
Automatic alternative route planning
Easily add pickup and delivery points

Scalable

Fleets of up to 100 vehicles

- · Job dispatch and management
- · Centralized configuration and map management
- · Facilitates traffic flow
- \cdot Centralized point of communication

Robust 24x7 productivity

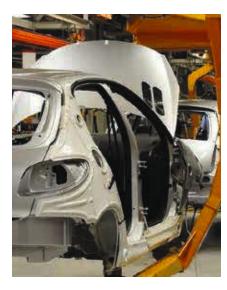
- · Opportunistic charging
- · Capable of operating in highly dynamic environment
- · Proven worldwide installed base
- \cdot >17 years of continuous experience

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Thousands of possibilities to drive productivity gains

Today, we have the largest installed base of Autonomous Intelligent Vehicles in manufacturing. Our mobile robots can be deployed in thousands of applications across multiple industries.



Automotive

Tire Assembly

Transport green tires from intermediate storage to curing press stations.

Automotive Electronics

Transport sub-assemblies from kitting to line side replenishment.

OMRON

MICROSCAN

Automotive Accessories

Transport totes to and from injection molding stations.





Digital

Semiconductor Wafer Fab

Intra-bay WIP (SMIF Pods/FOUP) transport between stockers and process tools, or transport reticles for photolithography process.

Semiconductor Packaging and Test

Transport IC chip trays via cart.

Mobile Device Manufacturing

Transport totes of PCBs in handset assembly.

Data Center

Environmental (temperature, humidity, etc.) surveillance and troubleshooting.

Logistics

Warehouse

E-commerce order fulfillment.

Shipment Distribution Center

Transport totes from shelves to loading docks.



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Consumer Products

Jewelry Manufacturing

Transport finished jewelry molds to casting stations.

Designer Accessories

"Virtual conveyor" to transport boxes of sunglasses from ASRS to manual sorting stations.



Food, Beverage and Hospitality

Catering Facility Transport baked food totes to stockroom.

Hotel Linen and room service delivery.



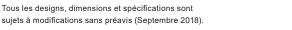
Medical

Sterilization

Transport surgical instruments to sterilization room.

Blood Lab

Secure sample transportation.





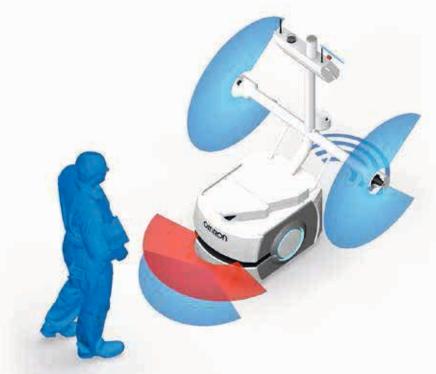
Advanced, Integrated Technology

Mapping and Navigation

Robust Navigation with Acuity (Patented)

Acuity provides an additional method of "localization" to the onboard laser, to allow the robot to operate in frequently changing environments. It identifies overhead lights and overlays the "light map" with the "floor map". It also allows the robots to move easily across wide-open areas in large warehouses.





omroi

MICROSCAN

Safety

Our mobile robots are fully safety compliant1. They use an onboard laser and other sensors to detect obstacles in their path and, based on speed of travel, trigger an E-stop to prevent vehicle collision.

Sensors:

- · Safety Rated Main Laser
- · Lower Laser
- · Side Lasers (Patented)
- · Front Bumper
- · Rear Sonar
- · Rear Laser

1Safety std: ISO 12100, ISO 14121-2, ISO 13849-1, IEC 61010 (battery only), IEC 60950 (battery only), EN 1525, ANSI B56.5 Part 3, JIS D 6802, IEC 60204

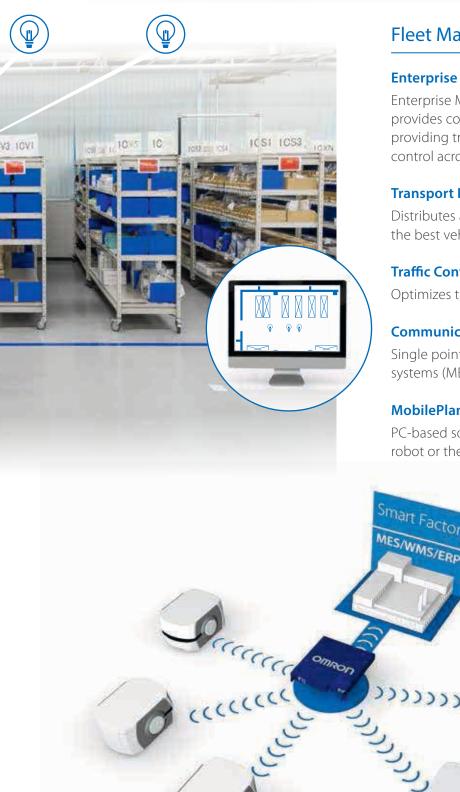


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Why are our mobile robots the most advanced Autonomous Intelligent Vehicles?



Fleet Management

Enterprise manager

Enterprise Manager is a network appliance that provides coordination of mobile robots while providing traceability, job allocation and traffic control across the entire fleet.

Transport Request (Job) Allocation:

Distributes across multiple mobile robots by selecting the best vehicle to perform the job.

Traffic Control:

Optimizes traffic flow of vehicles.

Communications:

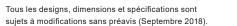
Single point of contact for integration with factory systems (MES, WMS, ERP, etc.).

MobilePlanner:

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J.J.

PC-based software user interface to manage the robot or the fleet.





Let us help you **mobilize** your operations

Global Collaborative Network

Robotics Expertise and Machine Automation Support provided by a unique global team.



40 countries 150 locations

3000 application engineers

Planning. Implementation. Support.



Test with real products

We are ready to help you every step of the way, anywhere in the world.

Give us a call. Our expert feasibility study can help you determine if mobile autonomous vehicles are right for your application.



Simulations

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Mobile Robots

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
			60 kg		Standard	-	37031-00000
				1.8 m/s	Docking Station kit	Docking Station: 12477-000Battery Power Cable (0.45 m): 12676-000	37031-00002
	OFM	LD-60			Starter kit	Docking Station : 12477-000 Battery Power Cable (0.45 m) : 12676-000L MobilePlanner Software Licence : 13495-200 Joystick : 13558-000 Top Plate : 12944-000	37031-10004
	OEM				Standard	-	37041-00000
					Docking Station kit	Docking Station: 12477-000Battery Power Cable (0.45 m): 12676-000	37041-00002
		LD-90 \$	90 kg	1.35 m/s	Starter kit	Docking Station : 12477-000 Battery Power Cable (0.45 m) : 12676-000L MobilePlanner Software Licence : 13495-200 Joystick : 13558-000 Top Plate : 12944-000	37041-10004
-	LD. Cart				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) :12676-000	37141-00012
		LD-105CT 1	105 kg	1.35 m/s	Starter kit	Touchscreen :13605-000 Side Laser :13456-000 Docking Station :12477-050 Battery Power Cable (0.45 m) :12676-000L MobilePlanner Software Licence :13495-200 Acuity Localization :13700-000 Joystick :13558-000 Cart :75020-000	37141-01014
5	Transporter				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) :12676-000	37161-00012
	LD	LD-130CT 130 kg	0.9 m/s	Starter kit	Touchscreen :13605-000 Side Laser :13456-000 Docking Station :12477-050 Battery Power Cable (0.45 m) :12676-000L MobilePlanner Software Licence :13495-200 Acuity Localization :13700-000 Joystick :13558-000 Cart :75020-000	37161-01014	

Appearance	Product Name	Configuration & Attachment	Model
	MobilePlanner	Installer (USB) * License dongle	13495-200
No. of Concession, Name	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
-		Single sensor	Sensor \times 1 , Mounting bracket \times 1, Power connector \times 1 , RS-232 connector \times 1 , 25 mm wide magnetic tape South top side. 50 m roll	13660-100
*	High Accuracy Positioning System	Double sensor	Sensor \times 2 , Mounting bracket \times 2, Power connector \times 1 , RS-232 connector \times 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	-	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
		Bundle	Laser × 2, Cable × 1 (Y Cable for 2 Laser)	13456-000
	Side Laser	Kit	Laser \times 2, Cable \times 1 (Y Cable for 2 Laser), Mounting kit \times 2, Metal Cover \times 2	13456-100
OMRON	Call/Door Box	WiFi Wired	Call/Door Box, Cable	13029-802

Accessories

Appearance	Product Name	Specification	Configuration & Attachment	Model
	Battery	-	-	18578-000
Dock		-	Docking Station, AC Power Cable	12477-000
	Docking Station	Extended Wall mount	Docking Station, AC Power Cable, Extended Wall mount (for Cart Transporter)	12477-050





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Appearance	Product Name	Specification	Configuration & Attachment	Model
	Joystick	Cable length: 0.6 to 3 m	-	13558-000
-	Breakout Cable	-	DB44HD Breakout Cable (D-SUB44 pin Cable for Digital I/O interface)	14165-000
-	Top Plate	Top cover for OEM type	-	12944-000
2	Cart	-	-	75020-000
-	Battery Power Cable	Cable length: 0.45 m	-	12676-000L

Specifications

Mobile Robots-LD Platform General Specifications

	láo m		OEM		nsporter	Nete
Item		37031-@@@@@	37041-@@@@@	37141-@@@@@	37161-@@@@@	Note
Materials KYDEX						
Dimension (L \times W \times H) 699 \times 500 \times 383 mm		m	$894 \times 1074 \times 1394$ mm *		*. Height includes WiFi antenna.	
Weight (with Battery)		62 kg		81 kg (Vehicle)/23 kg (Cart)		
	Ambient temperature	5 to 40 °C				
	Ambient humidity	5 to 95 % (non-con	densing)			
Environment	Operating Environment	Indoor usage only,	No excessive dust,	no corrosive gas		Direct sunlight may cause safety laser false positive
	IP rating	IP20				
	Cleanroom rating	Fed Class 100, ISC) Class5	None		

AIV (Autonomous Intelligent Vehicle) Specifications

	Item	OEM		Cart Transporter		Note
	item	37031-@@@@@	37041-@@@@@	37141-@@@@@	37161-@@@@@	Note
	Floor Requirements	Level surface or co	ncrete (no water, no	·		
Floor Conditions	Minimum floor flatness	F⊧25 (* ACI 117 sta	andard)			*. ACI 117 is the American Concrete Institute's standard for concrete floors. FF is flatness, FL is the level. Higher FF numbers represent flatter floors. FF25 is a fairly lenient specification.
	Traversable step	15 mm max. *1	10 mm max. *1	5 mm max. *2	5 mm max. *2	*1. A speed of 250-300 mm/s and 250 mm/s, for the LD-60 and LD-90, is required for these steps. Faster or frequent driving over such steps or gaps will shorten the lifespan of the drivetrain components. Lower speeds may not traverse the step. Steps should have smooth, rounded
	Traversable gap	15 mm max.	15 mm max.	5 mm max. *2	5 mm max. *2	profiles. *2. The Cart transporter with a cart is capable of driving over a gap or step of 5mm at a speed of 250 mm/s, but this should not be regarded as normal use. Regular driving over such gaps or steps will shorten the lifespan of the drivetrain components.
	Climb grade	Below 1: 12 (60 kg Flat floor only (over		Flat floor only		
Novigation	Routing	Autonomous routin environment mapp		Safety Scanning Las	er based on	
Navigation	Environmental map making method	Scan by walking th Scan data in the M		ugh the environmen	t, and upload the	
Payload	Maximum Weight	60 kg	90 kg	105 kg *	130 kg *	*. Excluding cart weight



	Item	OI	EM	Cart Tra	nsporter	Note	
	item	37031-@@@@@	37041-@@@@@	37141-@@@@@	37161-@@@@@	Note	
	Maximum speed	1800 mm/s	1350 mm/s	1350 mm/s	900 mm/s		
Mobility	Maximum rotation speed	180°/s	180°/s	100°/s			
,	Stop position accuracy	± 100 mm: Positior	$1*$, \pm 2°:Rotation			*. ±10 mm: Position, ±0.5°: Rotation with option, (High Accuracy Positioning System)	
	Materials	Non-marking Nylor	foam-filled rubber,	non-conductive			
Drive wheel	Size	200 dia. × 50mm n	ominal, 2 wheels				
	Materials	Conductive thermo	plastic rubber on Po	lyolefin			
Passive caster	Size	75 dia. × 41 mm no	minal, 4 casters				
	Battery	22-30 VDC					
	Capacity	72 Ah Battery cell r	nominal capacity				
	Run time	15 hours (continuo	us) approx.		With no payload condition		
	Recharge Time	4 hours (5:1 ratio) a	approx.				
	Battery Life cycles	2000 recharge cycl	es (Battery cell nom	inal)			
Power	Charging method	Automatic / Manua					
	Auxiliary Power		witched Aux power witched Aux power vitched \times 2 witched *		5, 12, 20, and 22-30 VDC power car be provided to external devices. *. 10 A Switched and 10 A Safe, Switched share the 10 A of current.		
	Safety Standard	EN1525 / JIS D680	,				
Standard	Wireless	IEEE 802.11 a/b/g					
	Safety Scanning Laser	1 at front Class 1 PLd Safety per ISC Maximum range: 1 Field of view: 240°					
	Emergency Stop	1 at Operator pane	1				
	Rear sonar	2 at rear, 2 m range	e	Each pairs is one emitter and one receiver, working together			
	Front Bumper	1 at front of platform	n, 2pairs of sensors				
Safety Features	Low Front Laser	1 at front of platforr Class 1 Maximum range: 4 Field of view: 270°					
	Side Laser	Option * 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.		1			
	Screen / Touch panel	3.5 in. TFT 320 \times 2 color screen	40 pixels, 256 K	7.0 in. TFT LCD tou RGB	ich panel , 18/24 bit		
Operator Interface	Button	ON Button: Green, OFF Button: Red, Brake-release butto Keyswitch (Disable					
	Wireless	IEEE 802.11 a/b/g					
	Ethernet port	1 × User LAN , 1 ×	Maintenance LAN,	Auto-MDIX			
	Serial	RS-232 × 2, CAN E					
Jser I/F	Digital I/O	16 inputs, 16 outpu					
	Analog I/O		, 4 outputs (0-20 V)				
	Audio		Audio In / Audio Out				
Cart Latching	Latching method	Not available	-	Automatic			



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 \times 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
* trained 100 M/	

*. typical 100 W

High Accuracy Positioning System

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

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-Touc	
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)	

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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- $\mathbf{W}\times\mathbf{D}\times\mathbf{H}$	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	
A 1 1 1 1 1 1		

Connector For out-of-platform battery charging

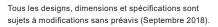
*1. Thermal fuse in AC power switch (10 A Time-lag fuse at switch for legacy dock) *2. () for with Floor plate

Joystick

Model	13558-000
Weight	550 g
IP rating	IP56

Cart

Model	75020-000	
Dimension (L \times W \times H)	$592 \times 846 \times 480 \text{ mm}$	
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	

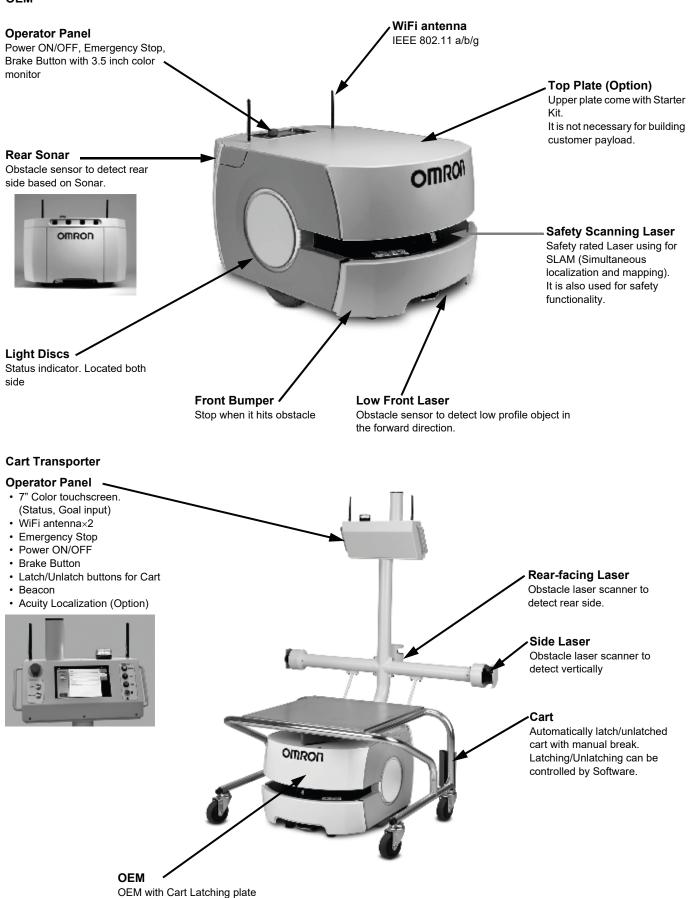






Components and Functions

OEM



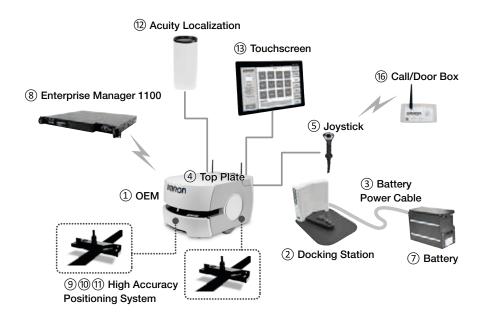


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System Configuration

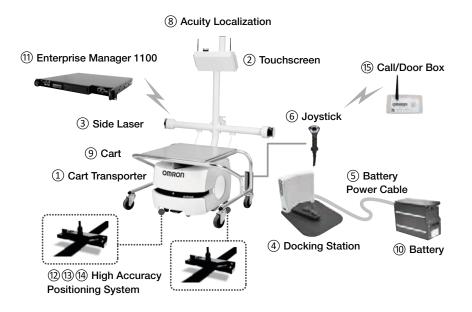
OEM



	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	
3	Battery Power Cable	12676-000L	A cable to connect a Battery and Docking Station to charge the Battery outside of the Mobile Robot.	kit	
4	Top Plate	12944-000	A upper plate of the Mobile Robot OEM. It is not necessary for building customer payload.		
(5)	Joystick	13558-000	Used for manually controlling the Mobile Robot.	Included in Starter kit	
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.		
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.	Included in Docking Station kit and Starter kit	
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	
5	Battery Power Cable	12676-000L	A cable to connect a Battery and Docking Station to charge the Battery outside of the Mobile Robot.	kit	
6	Joystick	13558-000	Used for manually controlling the Mobile Robot.		
7	MobilePlanner	13495-200	PC software to configure, drive and observe the Mobile Robot, including a USB license dongle.	- Included in Starter kit	
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.	-	
(13)	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.	-	
(14)	Magnetic tape	14925-000	Magnetic tape for the High Accuracy Positioning System. The tape is applied to signal the Mobile Robot where to stop.	-	
(15)	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.	-	
16	Breakout Cable	14165-000	A D-SUB44 pin cable for digital I/O interface of the Mobile Robot.	-	



OMRON MICROSCAN

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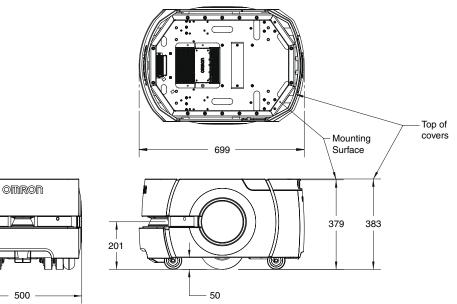
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Dimensions

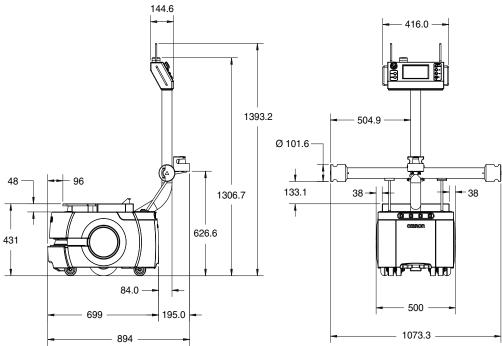
CAD data can be downloaded from Omron Adept Technologies Inc. website. http://www.adept.com/Robots-CAD-File

(Unit: mm)

Mobile Robots-LD Platform OEM

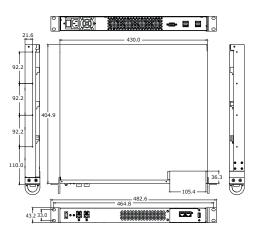




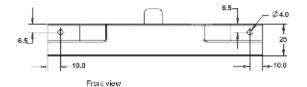


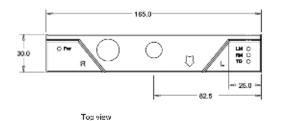


Enterprise Manager 1100

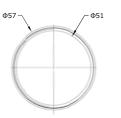


High Accuracy Positioning System



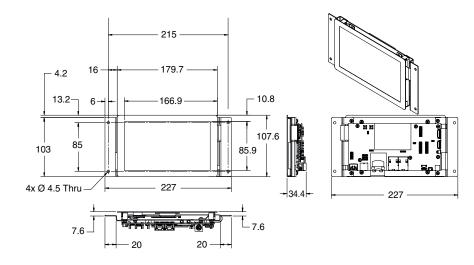


Acuity Localization





Touchscreen





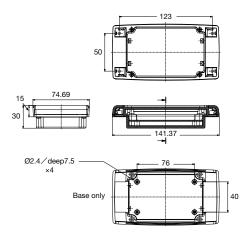
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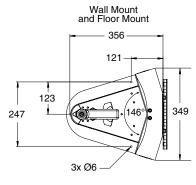
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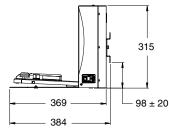
(Unit: mm)

Call/Door Box

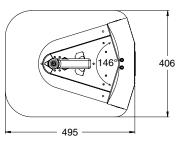


Docking Station

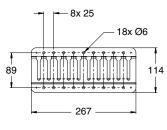




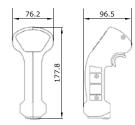
Free Standing



Wall Mount Bracket

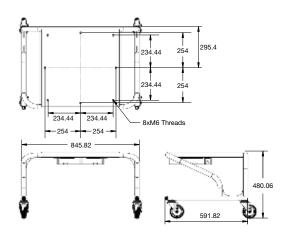


Joystick









Related Manuals

Manual No.	English title	
l611	Mobile Robots LD Platform User's Guide	
l612	Mobile Robots LD Cart Transporter User's Guide	
l613	Mobile Robots LD Platform Peripherals Guide	
l614	Mobile Robots Software Suite User's Guide	
l615	Enterprise Manager 1100 User's Guide	
l616	Mobile Robot Safety Guide	
l617	Advanced Robotics Command Language Reference Guide	
l618	Advanced Robotics Command Language Enterprise Manager Integration Guide	

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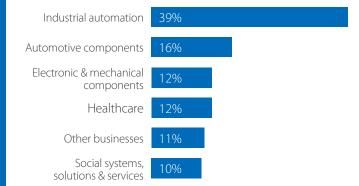
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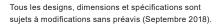
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