



MICROSCAN



VÉHICULES INTELLIGENTS AUTONOMES Robots mobiles LD

Modernisez votre flux de travail

Nos robots mobiles autonomes sont des véhicules intelligents autonomes (VIA ou AIV) conçus pour augmenter considérablement la productivité dans les opérations de fabrication et de logistique. Non seulement nos robots mobiles rendent vos employés plus efficaces en leur permettant de se concentrer sur les tâches qui exigent des compétences humaines complexes, mais ils augmentent le débit, réduisent les temps d'arrêt machine, éliminent les erreurs et améliorent la traçabilité des matériaux.

Flexible

Conceptions de charge personnalisables

- · Intégration facile avec les convoyeurs existants
- · Compatible avec les bras robotisés
- · Chariots et casiers de transports
- · Puissance, entrées-sorties, Wi-Fi





Pleine conformité aux normes de sécurité

- · Fonctionne en collaboration avec les employés
- · Capable d'éviter les obstacles statiques et mobiles
- · Ajout facile d'équipement d'arrêt d'urgence



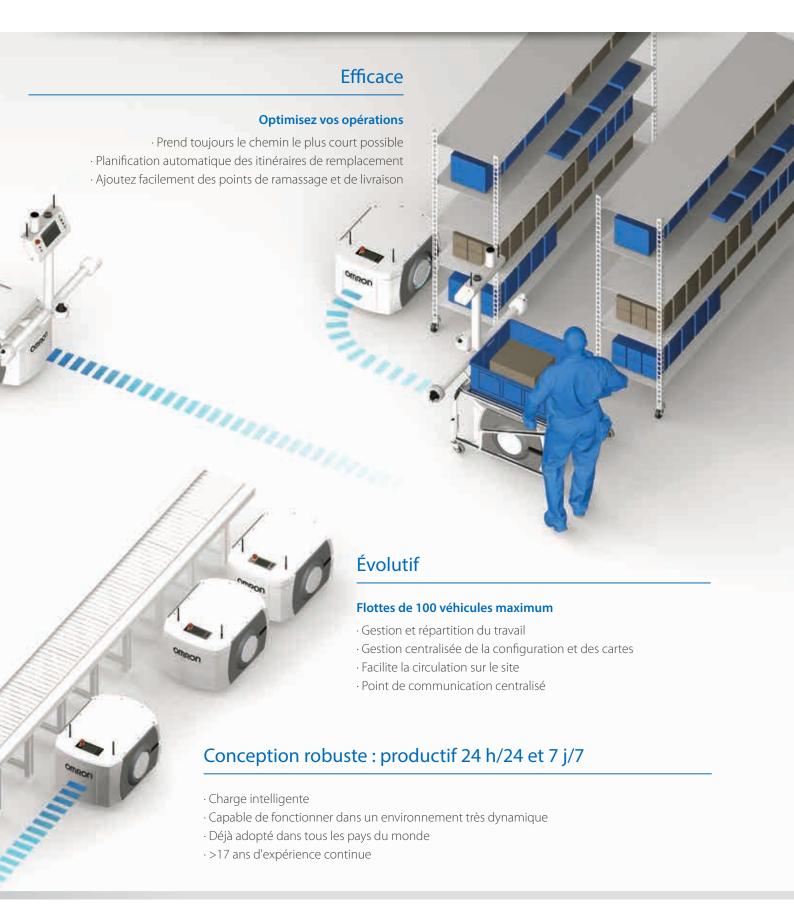
Facile à déployer

Circulation avec les caractéristiques naturelles du site

- · Réduit les coûts : pas de modifications des installations
- · Aucune préprogrammation du trajet
- · Automappage grâce au PC embarqué
- · Temps d'installation réduit









Des milliers de possibilités de gains de productivité

Aujourd'hui, nous avons le plus grand parc de véhicules intelligents autonomes dans la fabrication.

Nos robots mobiles peuvent être déployés dans des milliers d'applications dans de nombreux secteurs industriels.







Automobile

Montage des pneus

Transportez les pneus verts du lieu d'entreposage intermédiaire à la presse de vulcanisation.

Électronique automobile

Transportez les sous-ensembles de la mise en lots au réapprovisionnement latéral.

Accessoires automobiles

Transportez des casiers vers et depuis les stations de moulage par injection.

Numérique

Fabrication de wafers de semi-conducteurs

Transport WIP intrajournalier entre différents entrepôts d'outils pour traitement ou de réticules pour photolithographie.

Emballage et test de semiconducteurs

Transportez des plateaux de circuits IC par chariot.

Fabrication d'appareils mobiles

Transportez des casiers de circuits imprimés dans une usine d'assemblage de combiné.

Centre de données

Surveillance de l'environnement (température, humidité, etc.) et dépannage.

Logistique

Entrepôt

Traitement de commandes e-commerce.

Centre de distribution pour expédition

Transportez des casiers des étagères aux quais de chargement.











Biens de consommation

Fabrication de bijoux

Transportez des moules de bijoux finis vers les stations de moulage.

Accessoires du concepteur

« Convoyeur virtuel » pour transporter des caisses de lunettes de soleil à partir de stations de tri manuel ASRS.

Alimentation, boissons et secteur hôtelier

Établissement de restauration

Transportez des casiers de nourriture préparée vers la réserve.

Hôtellerie

Livraison de linge et service de chambre.

Médical

Stérilisation

Transportez les instruments chirurgicaux vers la salle de stérilisation.

Laboratoire d'analyse du sang

Sécurisez le transport de l'échantillon.



Technologie avancée et intégrée

Cartographie et navigation

Navigation fiable avec Acuity (breveté)

Le système Acuity fournit une méthode de « localisation » supplémentaire au laser embarqué pour permettre au robot de fonctionner dans des environnements en évolution constante. Il assimile l'éclairage au plafond pour identifier des repères lumineux qu'il utilisera avec la carte des lieux. Il permet également aux robots de se déplacer facilement entre les espaces ouverts des grands entrepôts.





Sécurité

Nos robots mobiles sont entièrement conformes aux normes de sécurité¹. Ils utilisent un laser embarqué et d'autres capteurs pour détecter des obstacles sur leur chemin et, en fonction de la vitesse de déplacement, déclenchent un arrêt d'urgence pour éviter la collision du véhicule.

Capteurs:

- · Laser principal avec niveau de sécurité certifié
- · Laser inférieur
- · Lasers latéraux (brevetés)
- · Pare-chocs avant
- · Sonar arrière
- · Laser arrière





¹ Norme de sécurité : ISO 12100, ISO 14121-2, ISO 13849-1, IEC 61010 (batterie uniquement), IEC 60950 (Batterie uniquement), EN 1525, ANSI B56.5 Partie 3, JIS D 6802, IEC 60204

Pourquoi nos robots mobiles sont-ils les véhicules intelligents autonomes les plus sophistiqués ?



Gestion de la flotte

Enterprise Manager

Enterprise Manager est un appareil réseau qui assure la coordination de robots mobiles tout en assurant la traçabilité, l'affectation de tâches et le contrôle de la circulation sur l'ensemble de la flotte.

Répartition des demandes de transport (tâches) :

Répartit les tâches entre robots mobiles en sélectionnant le meilleur véhicule pour effectuer le travail.

Contrôle de la circulation :

Optimise la circulation des véhicules.

Communications:

Point de contact unique pour l'intégration avec les systèmes d'usine (MES, WMS, ERP, etc.).

MobilePlanner:

Interface utilisateur logicielle basée sur PC pour la gestion du robot ou de la flotte.







Laissez-nous vous aider à mobiliser vos opérations

Réseau de collaboration mondiale

Prise en charge de l'expertise en robotique et de l'automatisation de machines par une équipe mondiale unique.



150

3000 ingénieurs en applications

Planification. Mise en œuvre. Prise en charge.

Nous sommes prêts à vous aider à chaque étape du chemin, n'importe où dans le monde.

Contactez-nous. Notre étude de faisabilité par des experts peut vous aider à déterminer si les véhicules autonomes mobiles sont adaptés à votre application.









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 & Attachmen	t	Model
					Standard	-		37031-00000
					Docking Station kit		: 12477-000 : 12676-000	37031-00002
ongon on the same of the same	OEM	LD-60	60 kg	1.8 m/s	Starter kit	Battery Power Cable (0.45 m) : MobilePlanner Software Licence : Joystick		37031-10004
	OEIVI				Standard	-		37041-00000
					Docking Station kit		: 12477-000 : 12676-000	37041-00002
		LD-90	90 kg	1.35 m/s	Starter kit	Battery Power Cable (0.45 m) : MobilePlanner Software Licence : Joystick		37041-10004
<u>l. 1.</u>	LI	LD-105CT 10	105 kg	1.35 m/s	Standard		:13605-000 :13456-000	37141-00010
					Docking Station kit	Side Laser : Docking Station :	:13605-000 :13456-000 :12477-050 :12676-000	37141-00012
					Starter kit	Side Laser Docking Station Battery Power Cable (0.45 m) MobilePlanner Software Licence: Acuity Localization Joystick		37141-01014
1	Transporter			0.9 m/s	Standard		:13605-000 :13456-000	37161-00010
					Docking Station kit	Side Laser : Docking Station :	:13605-000 :13456-000 :12477-050 :12676-000	37161-00012
	LD	LD-130CT 130 kg	130 kg		Starter kit	Side Laser Docking Station Battery Power Cable (0.45 m) MobilePlanner Software Licence: Acuity Localization Joystick	:13605-000 :13456-000 :12477-050 :12676-000L :13495-200 :13700-000 :13558-000 :75020-000	37161-01014



Software/Controller

Appearance	Product Name	Configuration & Attachment	Model
All Control of the Co	MobilePlanner	Installer (USB) * License dongle	13495-200
No. of the last of	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
10		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 × 2, Cable × 1 (Y Cable for 2 Laser), Mounting kit × 2, Metal Cover × 2	13456-100
omron in	Call/Door Box	WiFi Wired	Call/Door Box, Cable	13029-802

Accessories

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







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
	Cart	-	-	75020-000
	Battery Power Cable	Cable length: 0.45 m	-	12676-000L

Specifications

Mobile Robots-LD Platform General Specifications

	Item		OEM		nsporter	Nata
			37041-@@@@@	37141-@@@@@	37161-@@@@@	Note
Materials	Materials KYDEX					
Dimension (L × V	/ × H)	699 × 500 × 383 mm		894 × 1074 × 1394 mm *		*. Height includes WiFi antenna.
Weight (with Battery)		62 kg		81 kg (Vehicle)/23 kg (Cart)		
	Ambient temperature	5 to 40 °C	5 to 40 °C			
	Ambient humidity	5 to 95 % (non-con	5 to 95 % (non-condensing)			
Environment	Operating Environment			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	
			37041-@@@@@	37141-@@@@@	37161-@@@@@	Note	
	Floor Requirements	Level surface or co	ncrete (no water, no	oil, no dirt)			
	Minimum floor flatness	F _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.	
Floor Conditions	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 mm 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			
Navigation	Routing	Autonomous routin environment mapp	g by localizing with ing.	ser based on			
Navigation	Environmental map making method	Scan by walking th Scan data in the M	e Mobile Robot thro obilePlanner.	ugh the environmen	t, and upload the		
Payload	Maximum Weight	60 kg	90 kg	105 kg *	130 kg *	*. Excluding cart weight	





		OF	M	Cart Tra	nsporter		
Item		37031-@@@@@	37041-@@@@@	37141-@@@@@ 37161-@@@@@		Note	
	Maximum speed	1800 mm/s	1350 mm/s	1350 mm/s	900 mm/s		
	Maximum rotation	180°/s	1900/0				
Mobility	speed	180°/S	180°/s	100°/s			
	Stop position accuracy	± 100 mm: Position	* , \pm 2°:Rotation			*. ±10 mm: Position, ±0.5°: Rotation with option, (High Accuracy Positioning System)	
Date as ordered	Materials	Non-marking Nylon	foam-filled rubber,	non-conductive			
Drive wheel	Size	200 dia. × 50mm no	ominal, 2 wheels				
D	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	ominal 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	ninal)			
Power	Charging method	Automatic / Manua					
	Auxiliary Power	5 VDC±5%, 1 A Sw 12 VDC±5%, 1 A S 20 VDC±5%, 1 A S 22-30 VDC, 4 A Sw 22-30 VDC, 10 A S 22-30 VDC, 10 A S	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.				
	Safety Standard	EN1525 / JIS D680	2 / ANSI B56.5				
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 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		n, 2pairs of sensors				
Safety Features	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.					
	Screen / Touch panel	3.5 in. TFT 320 × 2 color screen	40 pixels, 256 K	7.0 in. TFT LCD too RGB	ıch panel , 18/24 bit		
Operator Interface	Button	ON Button: Green, OFF Button: Red, Brake-release butto Keyswitch (Disable		ON Button: Green, OFF Button: Red, Brake-release butt Keyswitch (Disable Latch Button, Unla	on: Orange, d OFF Button),		
	Wireless	IEEE 802.11 a/b/g		1			
	Ethernet port		Maintenance LAN,	Auto-MDIX			
	Serial	RS-232 × 2, CAN E					
User I/F	Digital I/O	16 inputs, 16 output					
	Analog I/O		, 4 outputs (0-20 V)				
	Audio		Audio In / Audio Out				
Cart Latching	Latching method	Not available		Automatic			





MobilePlanner	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

Litterprise 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			
* 1 ' 1400 141				

^{*.} typical 100 W

High Accuracy Positioning System

ingilities and a continuing system				
Model		13660-@00		
	Depth	30 mm		
	Width	160 mm		
Sensor	Rating	IP64		
0011001	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		
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°	
	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

20011119 011111111		
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	
Connector	For out-of-platform battery charging	
*1 Thermal fues in AC never exitely (10 A Time less fues et exitely fer lesses)		

^{*1.} Thermal fuse in AC power switch (10 A Time-lag fuse at switch for legacy

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	

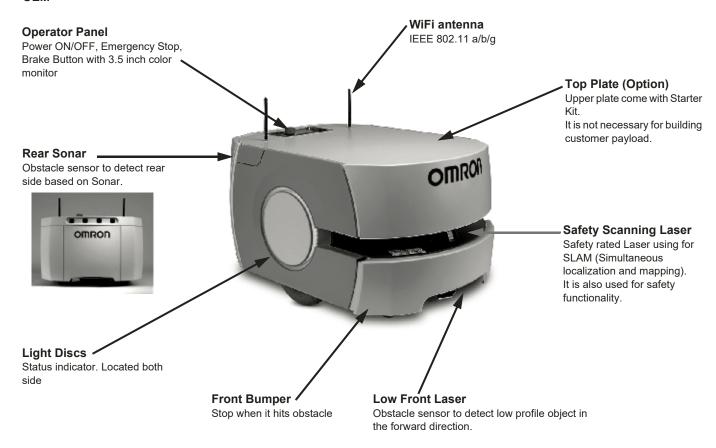




dock)
*2. () for with Floor plate

Components and Functions

OEM



Cart Transporter

Operator Panel • 7" Color touchscreen. (Status, Goal input) · WiFi antenna×2 · Emergency Stop Power ON/OFF · Brake Button Rear-facing Laser · Latch/Unlatch buttons for Cart Obstacle laser scanner to Beacon detect rear side. · Acuity Localization (Option) Side Laser Obstacle laser scanner to detect vertically Cart Automatically latch/unlatched cart with manual break. OMRON Latching/Unlatching can be controlled by Software.



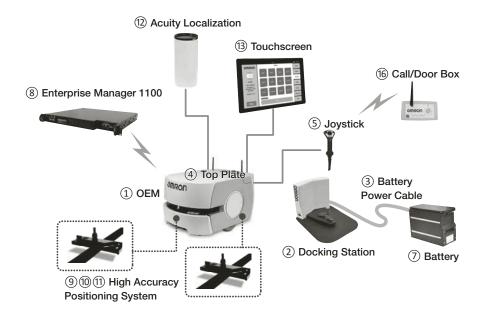


OEM

OEM with Cart Latching plate

System Configuration

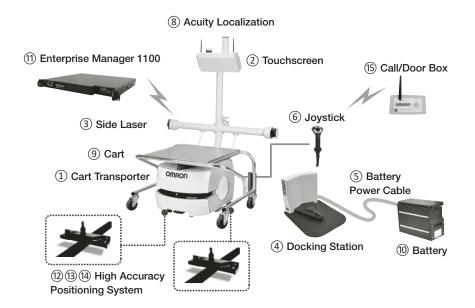
OEM



	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.	included in Starter Kit	
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.	-	
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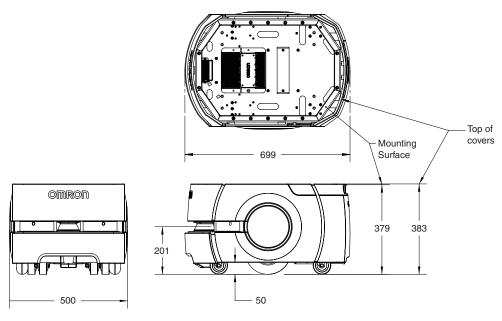




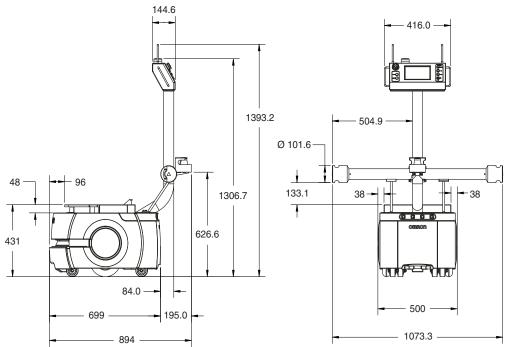
OMRON 17

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

Mobile Robots-LD Platform OEM

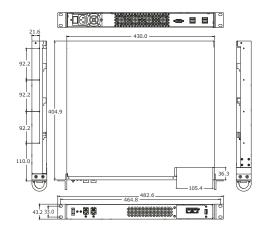


Cart Transporter

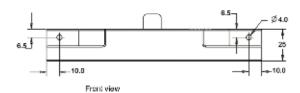


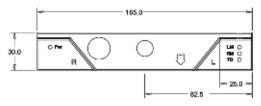


Enterprise Manager 1100



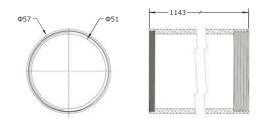
High Accuracy Positioning System



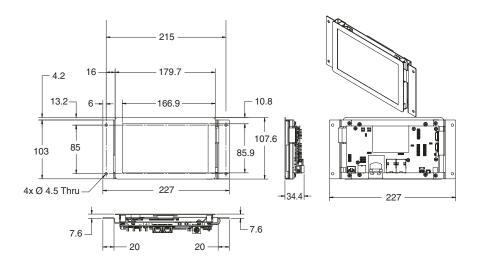


Top view

Acuity Localization



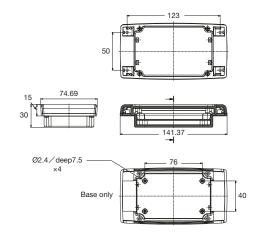
Touchscreen



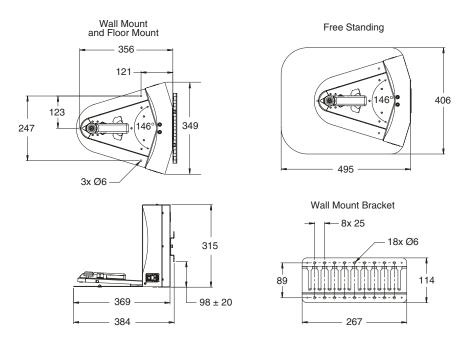




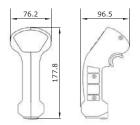
Call/Door Box



Docking Station

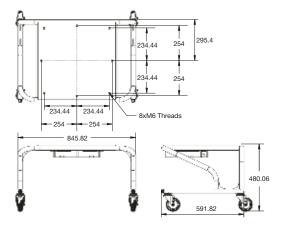


Joystick





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	
1615	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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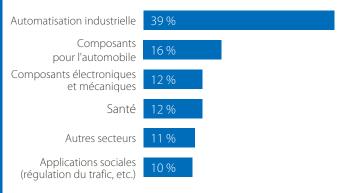
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