

1113 mm

Embedded Screen

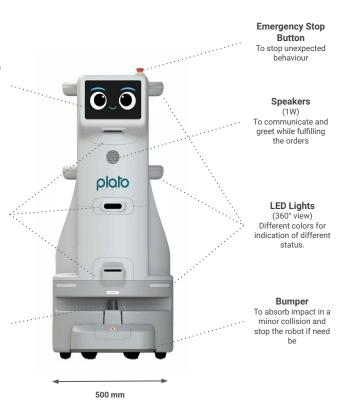
(10.1 inch touchscreen) To get orders from staff by touch and to show facial expressions

Sensors

3 x depth sensors, lasers class 1 and infrared to map the location and detect objects.

Lidar

Certified PLB 220° light detection and ranging to measure distances and avoid collision.



Total max



545 mm



Certification & Technical specifications

Plato is compliant with:

RoHS (Restriction of hazardous substances in electrical and electronic equipment).

WEEE (Waste Electronic and Electrical Equipment).

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Product safety	Machinery directive	These robots typically perform tasks to improve the quality of life of intended users, irrespective of age or capability. It describes hazards
	ISO 12100 & ISO 13849 & IEC 60204-1 & ISO 13482 - Risk Assessment & Design	associated with the use of these robots, and provides requirements to eliminate, or reduce, the risks associated with these hazards to an acceptable level www.iso.org/standard/53820.html
Product EMC	EMC directive	
	CISPR 14 & CISPR 32 & CISPR 35 IEC 61000-6-1 IEC 61000-6-3	5
Radio certification	Radio equipment directive	
	Certification for Wifi and radio emission	
IP42	Protection class indoor	
	Protection against tools and small wires larger than 1 mm. Protection against water spray in vertical position (max 15°)	
Charger safety	Low voltage directive	
	IEC 60204-1 and IEC 60335-1 & IEC 60335-2-29	
Battery safety	VARTA manufacturer certification	
	IEC 62133-2:2017	
Food contact	CAMBRO Round tray	

Certification for removable tray

Max combined Payload: 30 kg Middle shelf: 10 kg Middle shelf: 20 kg	Weight & Payload	Robot empty weight including battery	53 kg
Width Height 1113.1 mm Working environment Operating temperature 5°C - 40°C Operating humidity 20% - 85% non-condensing Max mapping area 4300 m² / 3220 square feet Max environment noise for voice commands Storage conditions Storage temperature -10°C to +60°C Storage humidity 90% max non-condensing Navigation Max speed 2.6 km/h (0.7m/s) Minimum space Width Corridor or door must be minimum 65-70 cm width Slope No (0° +/- 0.5°) Gap crossing 10 mm max Obstacle step No step allowed Power Input voltage 30 VDC Input current 8 A Charger Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) Battery Model Varta 7512P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use			Middle shelf: 10 kg
Height 1113.1 mm Working environment Operating temperature 5°C - 40°C Operating humidity 20% - 85% non-condensing Max mapping area	Dimensions	Length	545.5 mm
Awx mapping area			
Max mapping area Max environment noise for voice commands Storage conditions Storage temperature Storage humidity Max speed Max speed Max speed Max speed Max speed Max speed Minimum space Width Slope Mo (0° +/- 0.5°) Gap crossing Mostacle step No step allowed Power Input voltage Input voltage Input voltage Input frequency Charging cable length Model Varta 7S12P Type Inergy Average charging time Discharging time Protocols Portocols Storage temperature -10°C to +60°C Corridor or door Corridor or door must be minimum 65-70 cm width No (0° +/- 0.5°) 10 mm max No step allowed Power Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time Protocols	Working environment	Operating temperature	5°C - 40°C
Max environment noise for voice commands Storage conditions Storage temperature Storage humidity 90% max non-condensing Navigation Max speed 2.6 km/h (0.7m/s) Corridor or door must be minimum 65-70 cm width Slope No (0° +/- 0.5°) Gap crossing 10 mm max Obstacle step No step allowed Power Input voltage Input current 8 A Charger Input voltage Input frequency Charging cable length Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time Discharging time Protocols Padio module Protocols Storage temperature -10°C to +60°C Corridor or door must be minimum 65-70 cm width No.7m width Sorridor or door must be minimum 65-70 cm width Corridor or door must be minimum 65-70 cm width Sorridor or door mus		Operating humidity	20% - 85% non-condensing
Storage conditions Storage temperature -10°C to +60°C Storage humidity 90% max non-condensing Navigation Max speed 2.6 km/h (0.7m/s) Minimum space Width Corridor or door must be minimum 65-70 cm width Slope No (0° +/- 0.5°) Gap crossing 10 mm max Obstacle step No step allowed Power Input voltage 30 VDC Input current 8 A Charger Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use Padio module Protocols		Max mapping area	< 300 m² / 3220 square feet
Storage humidity 90% max non-condensing Navigation Max speed 2.6 km/h (0.7m/s) Minimum space Width Corridor or door must be minimum 65-70 cm width Slope No (0° +/- 0.5°) Gap crossing 10 mm max Obstacle step No step allowed Power Input voltage 30 VDC Input current 8 A Charger Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use Padio module Protocols 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz			75 dB
Navigation Max speed 2.6 km/h (0.7m/s) Minimum space Width Corridor or door must be minimum 65-70 cm width Slope No (0° +/- 0.5°) Gap crossing 10 mm max Obstacle step No step allowed Power Input voltage 30 VDC Input current 8 A Charger Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use Padio module Protocols	Storage conditions	Storage temperature	-10°C to +60°C
Minimum space Width Corridor or door must be minimum 65-70 cm width No (0° +/- 0.5°) Gap crossing 10 mm max Obstacle step No step allowed Power Input voltage 30 VDC Input current 8 A Charger Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use Padio module Protocols 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz		Storage humidity	90% max non-condensing
Minimum space Width	Navigation	Max speed	2.6 km/h (0.7m/s)
Gap crossing 10 mm max Obstacle step No step allowed		Minimum space Width	
Obstacle step No step allowed		Slope	No (0° +/- 0.5°)
Power Input voltage 30 VDC Input current 8 A Charger Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use Bo2.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz		Gap crossing	10 mm max
Input current 8 A		Obstacle step	No step allowed
Input voltage	Power	Input voltage	30 VDC
Input frequency		Input current	8 A
Charging cable length 1850 mm (72.8 in)	Charger	, =	100 - 250 VAC
Battery Model Varta 7S12P Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use Protocols 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz		· · · · · ·	50 - 60 Hz
Type Ion-Lithium Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz		0 0 0	1850 mm (72.8 in)
Energy 38.4 Ah / 995 Wh Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz	Battery		
Average charging time 7 hours 30 minutes (0>100%) Discharging time 12h depending on use 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz		3.	
Discharging time 12h depending on use 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz			,
Padio module Protocols 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz			· · ·
Padio module Protocols		Discharging time	
	Radio module	Protocols	

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