# plato



#### **Embedded Screen**

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

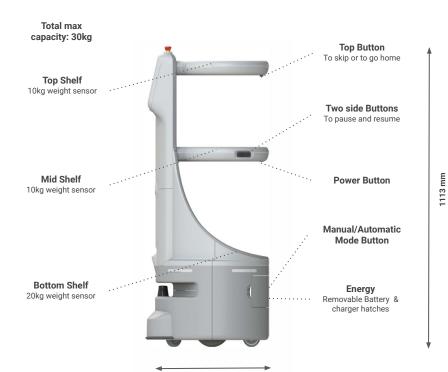
## Sensors

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.





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).

CE		
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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 associated with
	ISO 12100 & ISO 13849 & IEC 60204-1 & ISO 13482 - Risk Assessment & Design	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	
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 & I	IEC 60335-2-29
Battery safety	VARTA manufacturer certification	
	IEC 62133-2:2017	
Food contact	CAMBRO Round tray	

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CAMBRO Round tray

Certification for removable tray

Weight & Payload	Robot empty weight including battery	53 kg
	Max combined Payload: 30 kg	Top Shelf: 10 kg Middle shelf: 10 kg Bottom shelf: 20 kg
Dimensions	Length	545.5 mm
	Width	500 mm
	Height	1113.1 mm
Working environment	Operating temperature	5°C - 40°C
	Operating humidity	20% - 85% non-condensing
	Max mapping area	< 300 m² / 3220 square feet
	Max environment noise for voice commands	75 dB
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
	Туре	Ion-Lithium
	Energy	38.4 Ah / 995 Wh
	Average charging time	7 hours 30 minutes (0>100%)
	Discharging time	12h depending on use
Radio module	Protocols	802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz WiFi & Bluetooth Low Energy 5.x

Legal mentions from Manufacturer: Aldebaran reserves the right to make any changes to the Product and its documentation without prior notice or correction to the User. The present documentation in its latest version is downloadable for free at the following address www.aldebaran.com/plato/documentation/index.html