



## Embedded Screen

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

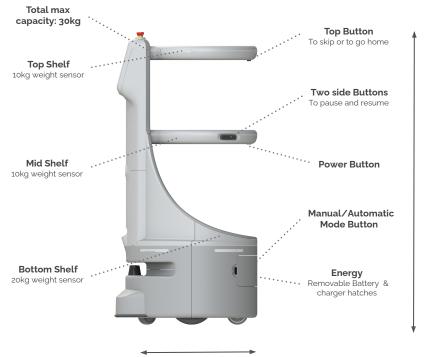
## Sensors

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

## Lidar

Certified PL b 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).



Machinery directive ISO 12100 & ISO 13849 & IEC

ISO 13482: Safety standard for mobile robot ISO 13849: Requirements of safety functions, Plato includes



· Collision avoidance: PL b · Bumper: PL c.

• Emergency stop: PL d

Assessment & Design **FMC** directive

· Overspeed: PL d



CISPR 14 & CISPR 32 & CISPR 35

60204-1 & ISO 13482 - Risk

IEC 61000-6-1 IEC 61000-6-3

Radio certification

Radio equipment directive (RED)

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

IEC 60204-1 and IEC 60335-1 & IEC 62368-1

**Battery safety** 

VARTA manufacturer certification

IEC 62133-2:2017

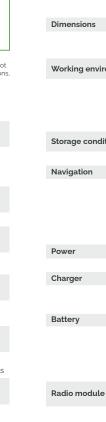
Low voltage directive

ISO 13849: PL c for protection of deeply discharged secondary cells

Food contact

CAMBRO Round tray

Certification for removable tray



Robot empty weight Weight & Payload 53 kg including battery Top Shelf: 10 ka Max combined Payload: Middle shelf: 10 ka 30 kg Bottom shelf: 20 ka Length 545.5 mm Width 500 mm Height 1113.1 mm Working environment Operating temperature 5°C - 40°C 20% - 85% non-condensing Operating humidity < 300 m<sup>2</sup> / 3220 square feet Max mapping area Max environment noise for 75 dB voice commands Storage conditions Storage temperature -10°C to +60°C Storage humidity 90% max non-condensing Max speed 2.6 km/h (0.7m/s) Corridor or door must be minimum 65-70 Minimum space Width cm width No (0° +/- 0.5°) Slope Gap crossing No gap allowed Obstacle step No step allowed 30 VDC Input voltage Input current 8 A Input voltage 100 - 250 VAC Input frequency 50 - 60 Hz Charging cable length 1850 mm (72.8 in) 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 Wi-Fi 802.11n/ac 2X2 MU-MIMO 2.4GHz/5GHz



IP42

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