

BellaBot Pro

Premium Delivery Robot · by **Pudu Robotics** · supplied & supported in the UK by **GO Robotics**

PREMIUM



BellaBot Pro is designed for venues where the robot is expected to charm as well as carry.

Guests respond to it. It greets, it reacts to touch on its ears and back, it holds eye contact through an animated face, and it lights each tray so the right person picks up the right plate without being told. Behind the personality is a serious machine: **40 kg** across four trays, **11 hours** of runtime and triple-redundant navigation combining vision SLAM, LiDAR SLAM and marker positioning.

40 kg

ACROSS 4 TRAYS

11 h

RUNTIME

25.6 Ah

BATTERY CAPACITY

5

INTERACTION MODES

KEY CAPABILITIES

- 1 Five ways to interact**
Greeting, lighting, voice, ear-touch and back-touch. Guests engage with it naturally, which is exactly what turns a delivery into a talking point.
- 2 Tray lighting that guides pickup**
Each tray and the ambient body lighting indicate which dish belongs to which guest, reducing hand-back errors at the table.
- 3 Dish recognition**
On-board recognition identifies dishes on the tray and can announce them on arrival — with cooking method and serving notes.
- 4 Ground projection safety**
Patterns are projected onto the floor near intersections and blind corners so staff and guests are warned before the robot appears.

Why premium pays for itself

In guest-facing venues the robot is not only labour — it is atmosphere. Operators consistently report that an expressive robot generates repeat visits, social media coverage and family bookings that a purely functional machine does not.

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PHYSICAL	
Dimensions (W × D × H)	570 × 550 × 1290 mm
Weight	55 kg
Tray size	410 × 500 mm
Number of trays	4
Load per tray	10 kg
Maximum payload	40 kg
Finish options	White, black
MOVEMENT	
Cruise speed	0.2 – 1.2 m/s (adjustable)
Minimum passage width	650 mm
Chassis	Vehicle-grade, enhanced stability
POWER	
Battery capacity	25.6 Ah
Runtime (unloaded)	11 hours
Charging time	4.5 hours

DISPLAY & INTERACTION	
Screen options	10.1" LCD or 18.5" LCD
Interaction modes	Greeting, light, ear-touch, back-touch, voice
Tray guidance	Per-tray lighting + ambient lighting
Safety signalling	Ground pattern projection at intersections
SENSING & NAVIGATION	
Navigation	VSLAM + Marker + LiDAR SLAM
Cameras	2 forward-facing + 3 RGBD depth
LiDAR	1 × laser radar
Recognition	Dish recognition & announcement
MODES & INTEGRATION	
Operating modes	Delivery, Recycle, Cruise, Guide, Birthday
Access control	Autonomous gate / turnstile passage
Staff calling	Pager and 4G wrist-watch calling
Fleet management	Central cloud platform

5

Triple navigation redundancy

Vision SLAM, LiDAR SLAM and marker positioning run together. If one method is degraded — glare, crowds, an empty white corridor — the others carry the robot through.

6

Building & staff integration

Autonomous gate passage, pager calling, 4G wrist-watch calling for staff, and central fleet management from one platform.

WHERE IT FITS

- **Premium & themed restaurants** — the robot becomes part of the experience
- **Hotel restaurants, lounges & banqueting** — guest-facing service at volume
- **Family dining & leisure venues** — a genuine draw for repeat bookings
- **Shopping centres & flagship retail** — guidance, advertising and footfall
- **Showrooms, visitor centres & exhibitions** — greeting and product location
- **Retail floors** — shelf status detection and restocking alerts
- **Events** — celebration sequences and queue management

SUPPLIED BY GO ROBOTICS

- Free site survey and written recommendation
- Installation, mapping and commissioning
- On-site staff training and documentation
- Charging dock and accessories as specified
- Fleet management platform access
- UK-based support, diagnostics and warranty

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