

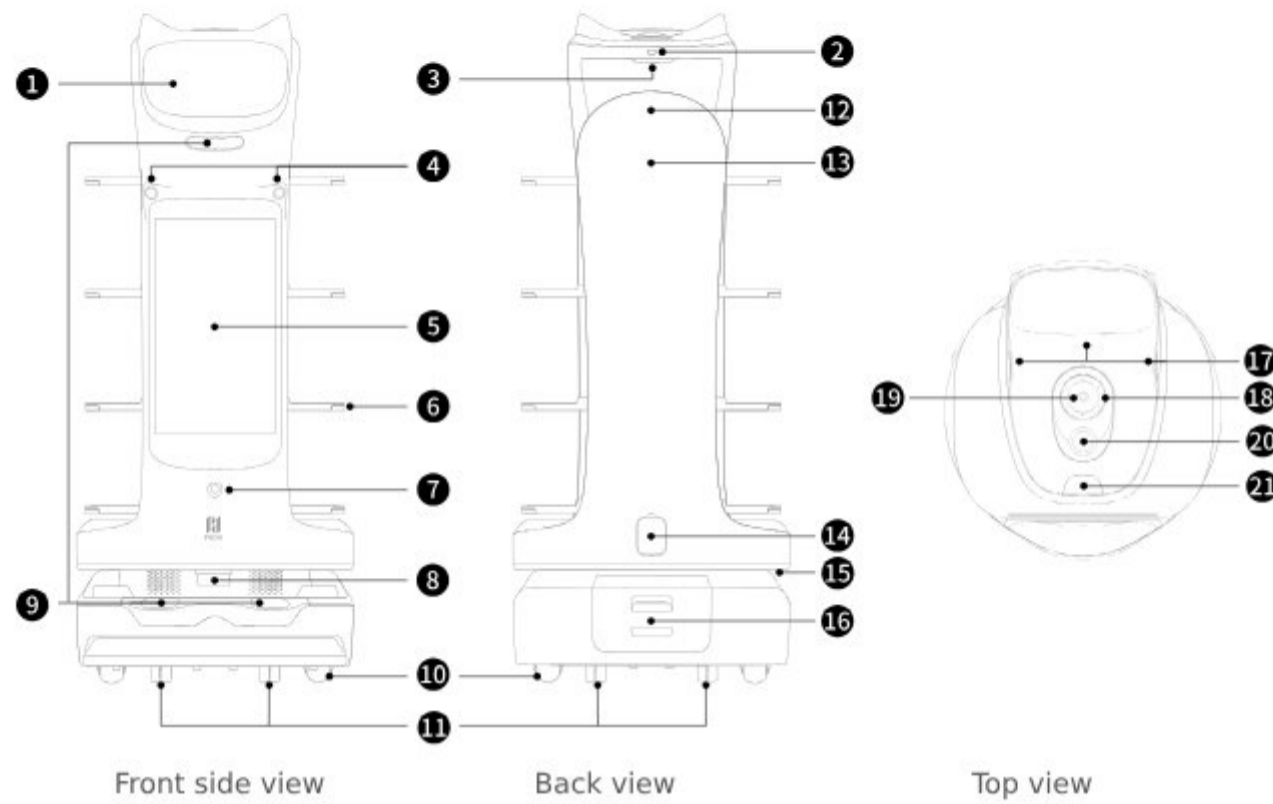
# Product introduction (BellaBot Pro)

## Overview



BellaBot Pro is an indoor delivery robot with laser Slam + Vslam, a large advertising screen, and tray visual detection. It also provides excellent human-robot interactions, AI voice, lovely looking, and multimodal interactions. To adapt to different business scenarios, the BellaBot Pro provides a variety of modes, such as Delivery Mode, Cruise Mode, collection Mode, Birthday Mode, Guiding Mode, and more.

## Appearance & Components



1	LCD	9	Depth vision sensor	17	Touch sensor
2	Power switch	10	Drive wheels	18	6-mic circular array kit
3	Tray detection sensor	11	Auxiliary wheels	19	Upward facing sensor
4	Front view RGB camera	12	Touch-finished sensor	20	Emergency stop switch
5	Advertising screen	13	Dot matrix screen	21	Lightning button
6	Trays	14	Charging port		
7	Floor projector light	15	Light strip		
8	Lidar	16	Battery box		

## Specification

Feature	Description	
Operating voltage	DC 23 V ~ 29.4 V	
Power input	AC 100 V ~ 240 V, 50/60 Hz	
Power output	29.4 V, 8 A	
Battery capacity	25.6 Ah	
Charging time	4.5 h	
Battery life	10 h (unloaded)	
Cruise speed	0.2m/s ~ 1.2m/s(adjustable)	0.66 ~3.94 ft/s(adjustable)
Navigation	Visual positioning	
Min.travel width	65 cm	25.59 Inches
Min. turning width	65 cm	25.59 Inches
Max.surmountable height	10 mm	
Max.climbing angle	5 °	
Tray dimensions	410 mm x 500 mm	16.14 x 19.69 Inches
No.of trays	Four	
Height between trays	From top to bottom: 230 mm/ 200 mm/ 200 mm / 180 mm (adjustable)	From top to bottom:9.06/7.87/7.87/7.09 Inches(adjustable)
Tray load	10kg/layer	22.05 pounds/layer
Machine material	ABS/aviation grade aluminum alloy	
Robot weight	57 kg	132.28 pounds
Robot dimensions	570 mm x 550 mm x 1290 mm	22.44 x 21.65 x 50.79 Inches

Feature	Description	
Screen size	10.1-inch LCD screen and 18.5-inch LCD screen (advertising screen)	
Operation system	Android	
Microphone	6-mic circular array kit	
Speaker power	2×10 W stereo speakers	
Working environment	Temperature: 0 to 40 °C (32 to 104 °F ); RH: ≤ 85% ( )	
Storage environment	Temperature: -40 to 65 °C (-40 to 149 °F ); RH: ≤ 85%	
Working altitude	< 2000 m	6561.68 ft
Surface requirement	Indoor environment, flat and smooth ground	
IP rating	IP20	
	Wi-Fi	2.4G Wi-Fi: 2412-2472 MHz, 2422-2462 MHz 5.2G Wi-Fi: 5180-5240 MHz, 5190-5230 MHz, 5210 MHz 5.3G Wi-Fi: 5260-5320MHz, 5270-5310 MHz, 5290 MHz 5.6G Wi-Fi: 5500-5700 MHz, 5510-5670 MHz, 5530-5610 MHz 5.8G Wi-Fi: 5745-5825 MHz, 5755-5795 MHz, 5775 MH
	Bluetooth	2402-2480 MHz
	3G	B1/B8
	4G LTE-FDD	B1/B3/B7/B8/B20/B28
	4G LTE-TDD	B34/B38/B40
Max. transmit power	Wi-Fi	2.4G Wi-Fi: 16.96 dBm; 5.2G Wi-Fi: 13.07 dBm; 5.3G Wi-Fi: 12.66 dBm; 5.6G Wi-Fi: 12.73 dBm; 5.8G Wi-Fi: 12.93 dBm
	Bluetooth	BLE: 6.69 dBm; BR/EDR: 9.83 dBm
	3G	B1: 23.64 dBm; B8: 21.71 dBm
	4G LTE-FDD	B1: 23.77 dBm; B3: 23.51 dBm; B7: 23.7 dBm; B8: 23.22 dBm; B20: 22.97 dBm; B28: 23.05 dBm
	4G LTE-TDD	B34: 23.73 dBm; B38: 23.97 dBm; B40: 23.45 dBm