

Hotel Delivery Robot

W3



Key features

- **Industry-leading autonomous navigation solutions** to ensure precise localization and movements.
- **3D stereo obstacle avoidance performance** with 120° wider viewing angle.
- **Automatically lift taking performance** ensured by Keenon robots lift control solution.
Long service time: 15 hours uninterrupted service can be provided (actual results may vary).
- **Arc-shaped body design**, advanced and rounded to avoid accidental bumping.
- **Fully automatic design of cabin opening and closing**, designed to prevent pinching hands.
- **Extra large 90 L delivery space with 4 independent compartments** to private distribution of multiple items during peak periods.
- **Extreme obstacle Crossing Performance:** 7 degree climbing capacity, 15 mm Vertical Height, 30 mm Gap Width.

Specifications

General

Product Size (W × D × H)	450 × 550 × 1080 mm
Product Weight	48 kg
Number of Cabins	2/3/4
Cabin Size	390 × 385 × 300 mm (contain 66 bottles of 550 ml water)
Layer Detachable	Yes
Cabin Load Capacity	20 kg (5 kg per layer, with bottom layer capacity at 10 kg)
Screen Size	11.6"
Screen Resolution	1920 × 1080 P
Screen Interactive Mode	Light/Touch
Speaker	2 sound tracks
Positioning & Navigation	Laser, IMU, encoder multi-sensor positioning & navigation
Obstacle Avoidance	Dual stereo vision, Anti-collision strips
Sensors	LiDAR, depth vision sensor, and touch sensor
Main Material	ABS Plastic for body
Color Optional	Silver/Champagne gold

Performance

Max Speed	0.8 m/s (normal pedestrian speed)
Battery Endurance	9–12 h (assuming 3 deliveries per hour and 5 minutes for each delivery)
Standby Time	Max 15 h
Maximum Climbing Angle	Slope $\leq 7^\circ$
Overpass Height	Max 15 mm
Minimum Pass Width	70 cm
Service Life	20000 h
Obstacle Avoidance Coverage	Lidar detection range: 270° , ≤ 20 m; Stereo vision range: 120° , 0.1-1.5 m
Multi-robot Collaboration	Maximum 20 robots
Multi-point Delivery	Up to 4 rooms (Single journey)

Battery and charging

Battery Capacity	DC 48 V 12 AH
Battery Dismountable	No
Charging Mode	Auto/Manual
Charging Input	100–240 V~, 50/60 Hz
Charging Time	Approx. 6.5 h
Charging Pile Dimension	230 × 220 × 290 mm
Charging Pile Weight	2.5 kg

Operation Environment

Operating Temperature and Humidity	0–45°C, RH: 5~85%, dust free
Working Environment	Flat and smooth ground indoors
Storage Temperature	0–60°C

Others

WIFI	802.11 b/g/n transmission
WIFI Frequency	2.4–2.484 GHZ
LoRa Frequency	850.125~930.125 MHz

Package Content



Battery Recharger ×1

*The actual recharger may be different.



Charging pile ×1



Product Manual ×1



Inset Compartment



Compartment Splitter Plate

Main Unit and Dimension



Main Unit and Dimension

