

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 own 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 **90L** delivery space with **4** independent compartments to private distribution of multiple items during peak periods
- Extreme Obstacle Crossing Performance : **7 degree** climbing capacity , **15mm** Vertical Height , **30mm** Gap Width

Specifications

General

Product Size(W*D*H)	450*550*1080mm
Product Weight	48KG
Number of Cabins	2/3/4
Cabin Size	390*385*300mm (contain 66 bottles of 550ml water)
Layer Detachable	Yes
Cabin Load Capacity	20kg (5kg per layer, with bottom layer capacity at 10kg)
Screen Size	11.6 inch
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	0.8m/s (normal pedestrian speed)
Battery Endurance	9-12h (assuming 3 deliveries per hour and 5 minutes for each delivery)
Standby Time	Max 15h
Maximum Climbing Angle	Slope \leq 7°
Overpass Height	Max 15mm
Minimum Pass Width	70cm
Service Life	20000 hours
Obstacle Avoidance Coverage	Lidar detection range: 270°, \leq 20m ; Stereo vision range : 120°, 0.1-1.5m
Multi-robot Collaboration	Maximum 20 robots
Multi-point Delivery	Up to 4 rooms (Single journey)

Battery and charging

Battery Capacity	DC48V 12AH
Battery Dismountable	No
Charging Mode	Auto/Manual
Charging Input	100-240V~,50/60Hz
Charing Time	Approx. 6.5 hours
Charging Pile Dimension	230*220*290 mm
Charging Pile Weight	2.5 KG

Operation Environment

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

Others

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

Package Content



Battery Recharger*1

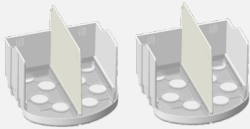
*The actual recharger may be different.



Charging pile*1



Product Manual*1



Inset Compartment



Compartment Splitter Plate

Main Unit and Dimension



Main Unit and Dimension

