

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≤7°                                                               |
| Overpass Height             | Max 15mm                                                               |
| Minimum Pass Width          | 70cm                                                                   |
| Service Life                | 20000 hours                                                            |
| Obstacle Avoidance Coverage | Lidar detection range: 270°, ≤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

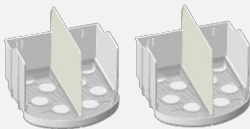
\*The actual recharger may be different.



Charging pile\*1



Product Manual\*1



Inset Compartment



Compartment Splitter Plate

Main Unit and Dimension



Main Unit and Dimension

