

PePe

Reception series

Applicable place

Shopping mall | School | Building sales center |
Cinema hotel | Hospital | Automobile 4S shop |
Government administration center

PRODUCT APPLICATION



Four microphone arrays, voice wake-up, sound source location, strong anti-interference.

HD camera, matching face recognition.

21.5 inch 10 point touch full angle screen, brightness greater than 250CD / M2, screen ratio 16:9

Laser radar navigation, laser detection range 25m, precision 2cm, an-ti sunlight interference, can independently plan the route, in the premise of avoiding obstacles can bypass obstacles

Ultrasonic obstacle avoidance, there are 3 ~ 7 ultrasonic (depending on the structure), the effective distance of ultrasonic is 0.5 ~ 1m

Can walk, turn, emergency stop, equipped with anti-skid rubber wheel, non-slip

PRODUCT FEATURES

- Business consulting** The user-defined voice dialogue can answer various business consultation questions to customers. The dialogue content can be presented through pictures, videos, web pages and apps to enhance the interactivity. answers all kinds of business consultation questions to customers,and can constantly adjust and optimize,support to build industry data model and massive knowledge base according to requirements(customized)
- Multiple locations introductions** It can realize multi-point navigation, flexibly customize multi-point explanation content, effectively reduce staff workload and improve service quality.
- Guide and lead** No need switch,the robot can lead the guest to the designated place and return to the starting point. Equipped with laser radar, ultrasonic and other sensors, flexible indoor fixed-location guidance.
- VIP welcome** Face recognition can be used to welcome guests or VIPs.
- Fun chat** Chinese and English cloud voice database, without switching, realizes bilingual interaction between Chinese and English, asks for songs, can query the weather, nearby hospitals, hotels, schools, restaurants and other facilities, and calculate the distance and route.
- Secondary development** Provide SDK+ Demo + documentation in Android environment

SPECIFICATIONS

Height & Weight	155cm, 38kg
Operating system	Android 6.0 or 7.1 operating system as the development platform
Network connections	WiFi (and 4G/5G can be customized, extra charge.)
Charging mode	automatic +manual
Software upgrade	Remote upgrade
Battery	15Ah polymer lithium battery
Work hour	6h
Screen size	21.5 inch HD display
Navigation mode	Laser radar navigation



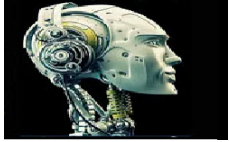
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Pepe robot Brief Product Manual

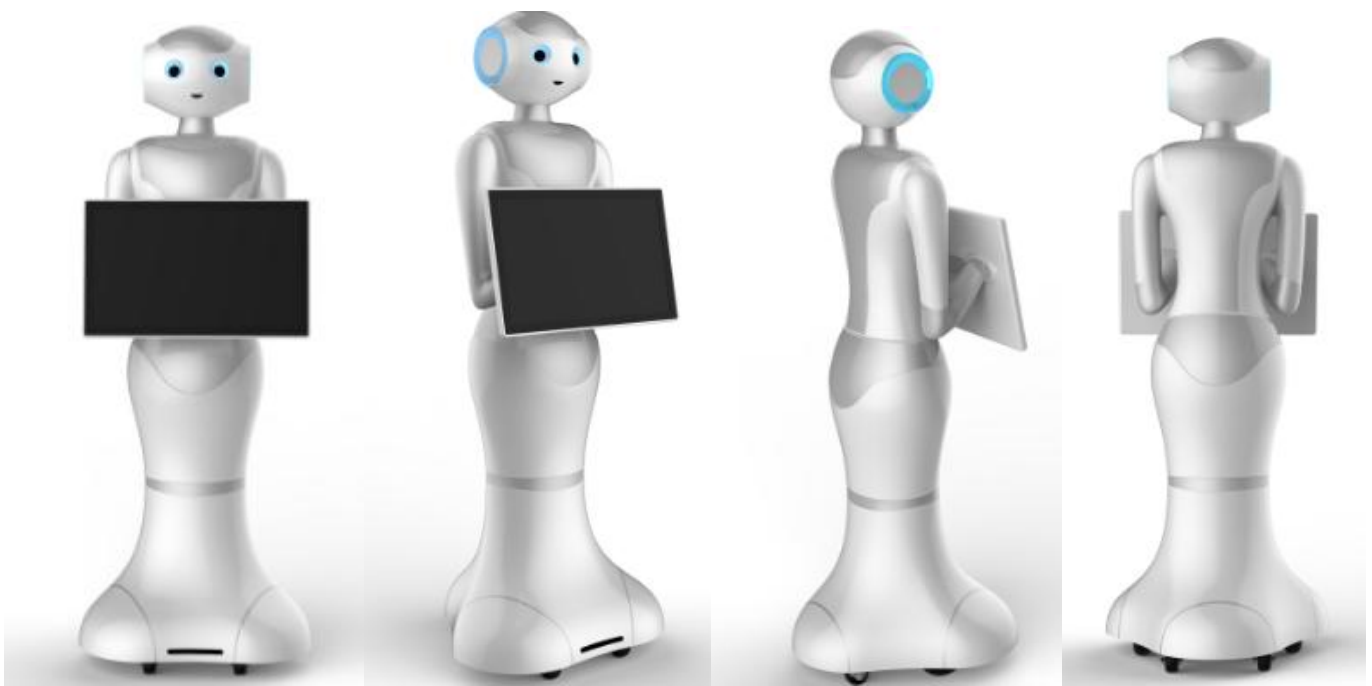
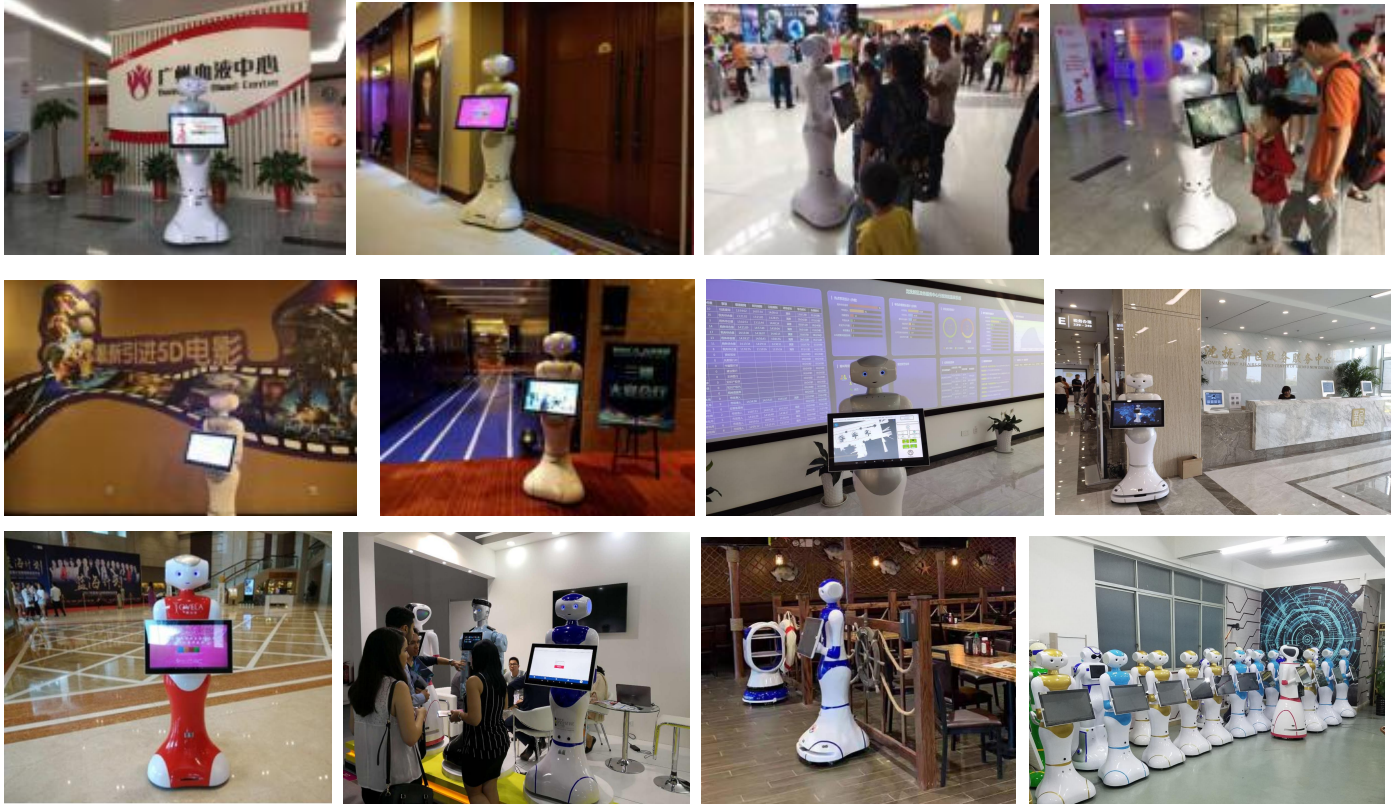
1. Appearance design

【1. Appearance sketch】





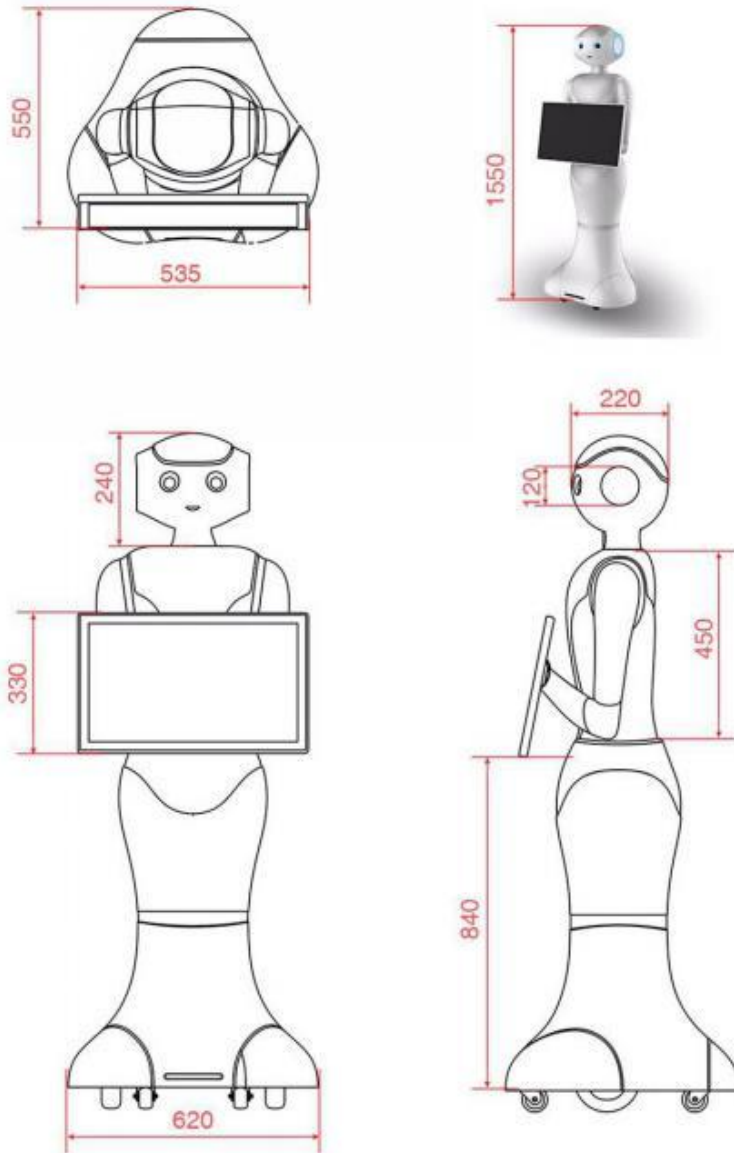
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McZeal Robotics ,Ltd **【3. Appearance size**

drawing】



2. Application scene

Application scene	hotel/ bank/ administrative centre/ restaurant/ science and technology museum/ museum/ library/ hospital/ school/ sales center/ shopping mall/ cinema/ car 4S stores/ banquet hall/ wedding celebration/ opening ceremony, etc.
Functions overview	temperature measurement/ welcome/ explanation/ guide to visitor/ shopping guide/ marketing/ consultation/ fun chatting/ host guest/ promote product/, etc.



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Value-added functions	<ol style="list-style-type: none"> 1. Advise the requirement 2. Our R&D check if can do the feature. 3. Quote the price and Lead-time 4. Sign the contract 5. Our team do it as per contract, 6. Finish the product and deliver to the client
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3. Main Features

	Function	Content
1	Greeting the visitor	The robot equipped with a sensor which can sense the human body when they are close to it, It will actively interact with the visitor, such as broadcast promotion information, or greeting, play video, etc, You can custom any information content when It interacts with people
2	Propaganda	Through voice dialogues pictures videos and other forms of publicity.
3	Trackless Running	The robot navigates automatically by laser radar and avoids obstacles automatically by ultrasonic induction.
4	Automatic charging	When the robot battery is low, the robot will automatically return to the charging pile for automatic charging.
5	Business Consulting	The Robot, Pepe support customized voice dialogue and build an industry data model and massive knowledge base (Customized). answer various business consulting questions to customers and continue to intelligent learning and optimization.
6	Guide the customer to the location	Pepe can lead the guest to the designated location after receiving the guest 's command by voice control and returns to the starting point automatically.
7	Publicity and Explanation	It can realize multi-point navigation, and customize multi-point explanations, explain while performing, play audio explanations, picture videos and other forms of advertising information or related promotional content, and display new product features and related service contents in all aspects.
8	Guests with VIP Welcome	Pepe has facial recognition function, He can greet the VIP guest and shake hand with them for warmly welcome after he scans the VIP guest's face through face recognition. the user can custom the welcome word for greeting guest.
9	Fun Chat	Pepe has good interaction with guest and has a fun talk, can answer any of question for guest.
10	Voice Control	Can do below things by voice command. A. Open the custom picture, video by voice command especially for business promotion.



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		<p>B. Upload the software application.</p> <p>C. Lead guest to a designated location. etc</p> <p>D. Give the robot a command, He will source from the internet and open the related information. such as weather, picture, website, etc.</p>
11	information playback	If need, the robot can play or playback the content (Include audio, video, pictures) as it walks, walk to a different destination and play different content, the content format can be mp3,mp4, jpg, txt)
12	Multi-point explanation	The robot can autonomously navigate to different positions to promote different content.
13	presented etiquette	Can participate in Awards ceremony, complete the presentation of prizes etiquette work.Can complete all kinds of publicity materials, exquisite gifts delivery work.
14	Guest Host	Customized the word for releasing the important news. , be able to guest in all kinds of interactive performances in the form of dialogue, explanation, sports, etc.
15	expression interaction	the robot has been designed to identify your emotions and to select the behavior or expressions best suited to the situation.
16	Control method	You can control the robot to play different content by App or remote control, or do advertisement or promotion.

PS: The above functions are suitable for proper use, and the effect is better.

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4. Technical parameters

1. OS: Android 6.0

2. Appearance Design:

- Beautiful appearance, exquisite workmanship, the whole has a clear sense of science and technology
- humanoid The human appearance,
- height: 155cm, N.W:35KG

3. Material

- Face: clear acrylic with 8" LCD screen
- Body: glass fiber plastic & Metal

4. Body motion performance

- The robot can work universally, can turn, and emergency stop
- The robot equipped with anti-skid rubber wheels



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- ▶ The robot can be charged by auto or manual
- ▶ The robot Can preset the visual track and walk the fixed route.
- ▶ walking Speed: around 3km/h, (If need, can make it faster)

5: Automatic obstacle avoidance

- ▶ 5-7 pcs Ultrasonic sensors, make the robot can do obstacle avoidance, accurate distance 1.5M
- ▶ It can bypass the obstacle, the obstacle avoidance distance can be set, such as 1m, 0.8M, etc
- ▶ Ultrasound and laser are fully integrated, the reaction speed of obstacle avoidance is sensitive, and the trigger signal can be obtained at 0.1 s.

6: Speech Interaction

- ▶ microphone array, reduce noise and automatic sound location, Voice recognition rate more than 90%
- ▶ The speech dialogue can be customized by yourself, put it in txt, then our engineer input the txt, then the robot can talk as per the content of txt. or robot will source answer from cloud voice database
- ▶ The robot can do Semantic understanding, voice analysis, multiple dialogue functions.

7: You can download the software applications base on your mood or the occasion

8. Face recognition

- ▶ There is a camera with 2 million pixel
- ▶ It can recognize your face after you register on its system.
- ▶ 98% high recognition rate, It identifies faces in milliseconds.

9. Tablet: computer configuration

- ▶ Screen: 21'5" capacitance screen
- ▶ RAM: 2G, 8g storage memory
- ▶ has a stand-alone USB port, Independent audio port, mic port, network cable port
- ▶ Network: by wifi or 4G module (If need, can add)
- ▶ has Bluetooth module

10. Automatic Docking and Recharging

- ▶ Pepe provides around 10-12 hours active use, When its battery is low, She will automatically return to its self-charging dock.

11. SLAM Automatic Obstacle avoidance

- ▶ Autonomous navigation, position and do route planning, Auto-generate a plane maps
- ▶ Liser Ladar navigation, the scan distance 25M, accuracy 2mm, anti-sunlight interference, can be a self-planning route or can establish a virtual route.
- ▶ Depth perception and high precision radar sensors, better navigation and positioning technology and avoidance techniques.
- ▶



Model of robot	Pepe		
Base parameters			
Height	155cm	N.W	35kg
Screen	21.5 inch, Hd color LCD screen	Screen type	10 touch screen, capacitance
Screen resolution (dpi)	1920*1080 FULLHD	Camera	Two million pixels
Size(mm)	763.77*457.21*65025.50 mm	Batteries and specifications	Polymer lithium battery 24V12AH
Tablet size	21.5 inches LCD	Facial	Can put any face picture as you want
Move mode	Universal Wheels	Chassis	glass fiber + stainless steel
Microphone	Four mic arrays, reduce noise	Speaker	Dual speaker
Network	WIFI	Support Bluetooth	Yes
Charging time (h)	≤10h (normal 8h)	Battery Life (h)	≥ 10 h
input voltage (V)	220VAC	output voltage (V)	24VDC
The distance of the human sensor to the guest	4 ~ 5m	Ultrasonic distance	1 ~ 2m
Standby current (A)	2A	Rated power (W)	48W
Control parameter			
Walking control	By App on phone and PC, or remote control, voice control	Lidar navigation	Scan distance: 12m, 16m, 18m, 25m(optional)
Working Environment	Indoor, Smooth floor	Environment temperature	0-45°C
Dialog system activation mode	Human sensor + ultrasonic sensor	Dialog system sleep time	The sensor was not responsive for 5min
when meeting an obstacle	do route planning autonomously or virtual track	Control mode	APP control, remote control, voice control
Tablet Information			
RAM	2G		
Storage memory	8G		



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Safety function			
Emergency Stop button	Press the button to stop the working robot immediately	Detection of obstacle avoidance	Real-time monitoring of obstacles in front of the robot, measuring a distance of 80 cm
Pedestrian detection	Real-time monitoring of no one passing by, someone coming to say hello	Self-Balance	Heavy chassis make a good balance
Convenience function			
voice play by remote control	plays an audio file, such as mp3, mp4, file	Type of charging	Auto/ Manual
When need to adjust the parameter	Can change via computer remote control	Sensor	Lidar, SLAM, Sonar sensor, an infrared sensor, a contact sensor
OS upgrade	By manual	Ultrasonic parameter	Can adjust by our engineer through computer remote control
The file robot can play			
Picture	format: jpg resolution: 1920*1080	Video frequency	format: mp3 frequency range: 32kbps-320kps
Video	format: mp4 resolution: 1920*1080	Text	format: txt
Product list			
List for robot	1: robot, 2: user manual, 3: warranty card	package	EPE foam, wooden box
The accessories	1: Automatic Charging Dock, 2: Power Adapter 3: white remote control 4: black motion remote control 5: 1 set tool kit		

ORDER YOUR ROBOT