



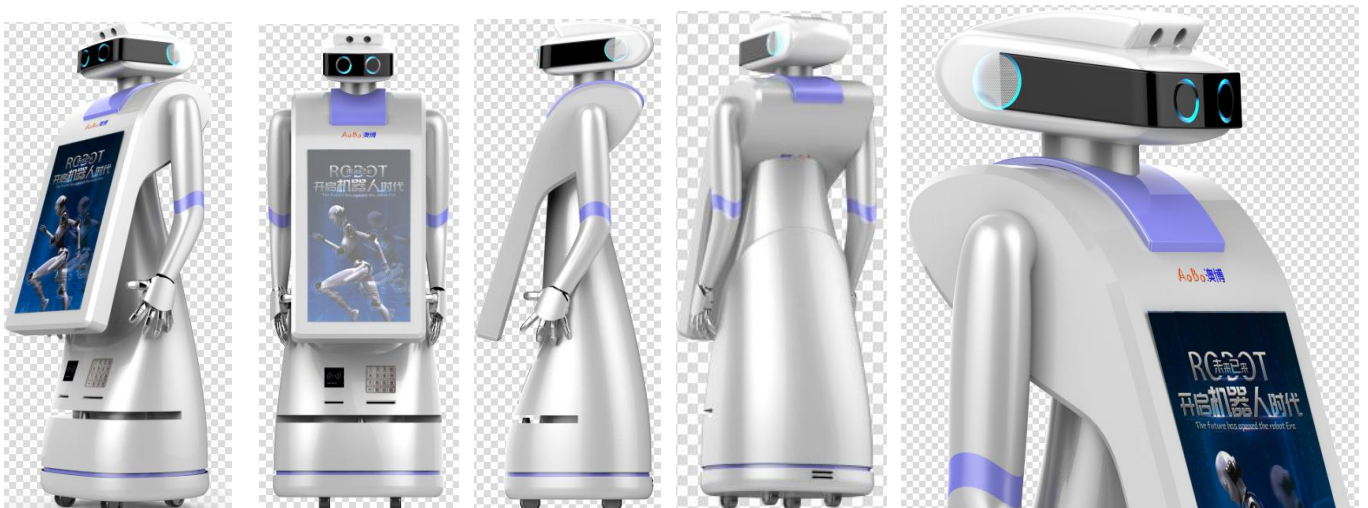
Doctor-1 Robot Brief Instructions

I. Appearance Design

【Appearance Effect Diagram】

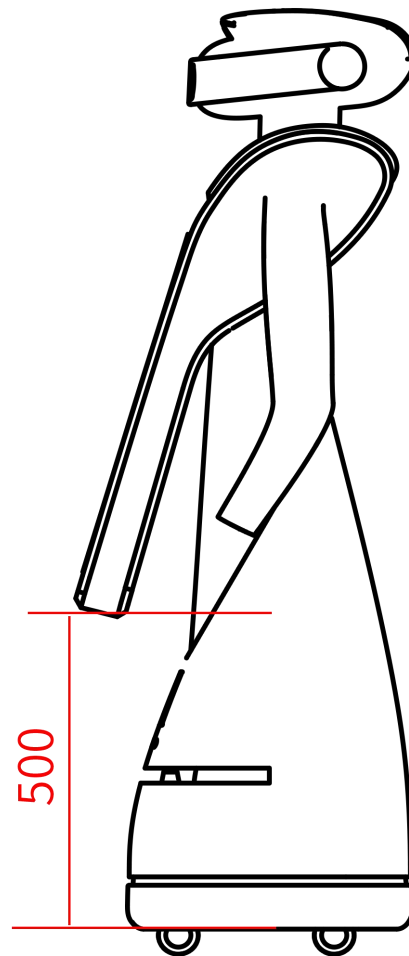
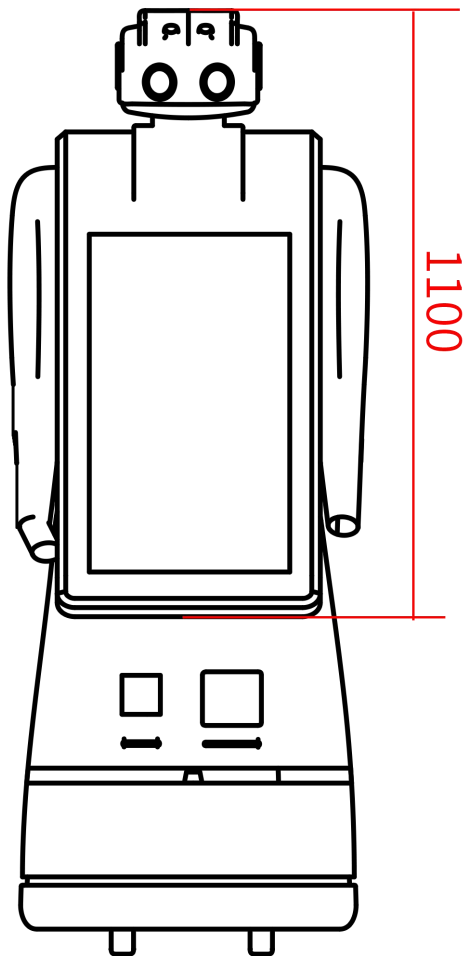
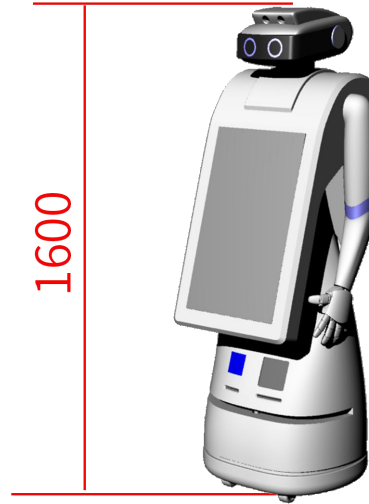
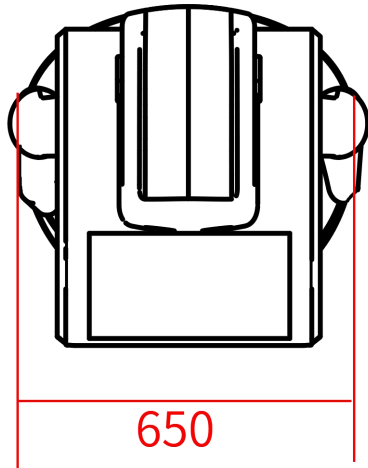


【Application case picture】





【Application Size】





【Function Description Diagram】





II. Application Scene

Application Scene	Hotels, banks, government administration centers, restaurants, science and technology museums, museums, libraries, hospitals, schools, building sales centers, shopping malls, cinemas, car 4S stores, banquet halls, wedding occasions, opening ceremony
Main function	The welcome reception, explanation, tour guide, shopping guide, marketing, consulting, Entertainment Interaction, host guest, promotional products, teaching
Custom Scene steps	1, provide the scene requirements. 2, consultation on if can develop this function. 3, consulting development cycle. 4, consulting development costs. 5, signed custom agreement. 6, check and test product function;

III. Major Function:

Number	Function	Content
1	Body movements	Head movement, neck movement, arm movement, arm movement, palm movement, each finger movement, can perform a complete set of body movements, can perform different segments of action, can be performed while explaining;
2	welcome, Farewell	Different route direction automatic induction of human body, and broadcast the greeting, farewell speech language, support custom display images, custom in different countries, different areas of language.
3	guide& lead	After the guest voice interaction, the robot leads the guest to the designated point, it can explain and after the explanation to return starting point (need to be customized)
4	Product explanation	It can play advertising information such as audio, picture, video, or related publicity content, and display new product features and related services in a comprehensive way;
5	Business Consulting	Customize the voice dialogue, support the construction of industry data model and mass knowledge base (need to be customized), answer all kinds of business consulting problems, and continue to optimize learning intelligently;
6	Voice search	can search and call up pictures, web pages, weather and so on.
7	Voice call out pictures and videos	can use voice control to open customized pictures and videos for preview
8	Desktop add app	can add the existing app and website page to the robot application desktop, and the guest can call up the app by voice or open it manually.
9	Voice opening software	can open the set software by voice and run the software.
10	Host guest	Support custom dialogue, Finish publishing important information and other pressing tasks; It can play various kinds of interactive performances in dialogues, explanations, sports and so on
11	Forward	Can attend the awards activities, complete ritual work of presenting the prizes. can



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	etiquette	finish the dispatch work of all kinds of publicity materials and beautiful gifts.
12	Expression interaction	In switching mode, speech and other scenes, respectively with the corresponding robot dynamic expression, voice feedback, to achieve good interactive with the audience.
13	Fun chatting	Through the cloud voice interaction, can achieve fun chatting; support for everyone, children's voice, cartoon pronunciation.
14	Circular propaganda	In the uninterrupted group visit activities, the robot can automatically cycle operation according to the custom work mode and the walking route of the organizers, to finish the safe and efficient propaganda and reception work
15	Arbitrary control	through the APP, voice, remote control to achieve a variety of operations, publicity and promotion;
16	private councilor	In private visits, leading inspection activities, the robot adapt the changes in the scene and ask questions in the way of personal consultants , complete flexible and interesting interpretation reception work
17	Multi point explanation	multi point navigation, and multi point custom explanation.
18	Facial recognition	Video faces can identify new and old customers and greet them.
19	Handshake	Face recognition can active identification of guests to greet guests and shake hands with guests.
20	Identification of certificate	ID cards and so on can be identified through induction identification (secondary development is required).
21	Bank card reading	Inserting a bank card into the robot to read the information of the bank card (requiring secondary development to be applied)
22	Keyboard Input	You can enter password, account number and so on on the metal keyboard (requiring secondary development to be applied)
23	Print small ticket	There are thermal printers, which can print bills and so on (requiring secondary development to be applied)
24	Handshake	Face recognition enables guests to greet and shake hands with guests
25	Background management	includes background data editing and business knowledge statistics of PC operation

Note: the above functions Proper collocation and use, the effect is better.

III. Technical parameter:

operating system	Android 7.1 operating system as development platform
Appearance Design	Beautiful appearance, line flow, exquisite workmanship, with a distinct sense of technology as a whole
	Human appearance, good luster of shell, warm and big facial expression



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	<p>The robot has no sharp metal parts exposed, the fuselage shell and the operable part have no sharp edges and corners, the joints are firm, the appearance is tight, and it is not easy to be smooth or damaged..</p> <p>The height is 160cm and the weight is 45kg</p>
Host computer main chip	processor: A64, number of cores: Quad Core cortex-a17, frequency 1.8GHz, operating system: Android 6.0
Upper computer memory	operation memory (RAM) capacity: 2 GB lp-ddr3, internal memory (ROM) capacity: 8 GB, can be expanded to 32g.
Main control board of the lower computer	STM32 processor, 7-way ultrasonic ranging interface, 4-way drop detection interface, 1-way MP3 module interface, 2-way collision module interface, Wireless remote control interface, PCIe interface, Ethernet interface, 3-way infrared receiving interface, 10-way infrared collision avoidance interface, 2-way two-phase odometer interface, 2-way motor drive interface, 2-way linear motor control interface, 1-way door lock control interface, supporting 485, TTL, 232, USB communication, with power detection function, 4-way DCDC stabilized power supply, over-current protection function, automatic recharge function, self With IFLYTEK voice array forwarding function.
Upper body movement performance	Humanoid head can move up, down, left and right, each arm can move, each arm can move, a total of ten fingers can be humanoid movement, can shake hands and grasp the cup to pour water, the whole body 31 joints.
Lower body movement performance	It can walk, turn and stop
	It can be charged automatically or manually
	Matched with anti-skid rubber wheel, no slipping
	It can navigate and walk autonomously, plan route autonomously, and generate plane map automatically.
	can set virtual routes and walk on fixed routes
	Lidar navigation, laser detection distance of 25m, accuracy of 2cm, anti-interference of sunlight, can independently plan routes or establish virtual routes, and can bypass obstacles under the premise of avoiding obstacles.
obstacle avoidance	The normal movement speed is 0 ~ 0.7m/s, which can be adjusted manually or programmed to be more than 1m / s, but it will affect the navigation accuracy at this time, so it is not recommended to use.
	Ultrasonic obstacle avoidance, There are 3-5 ultrasonic waves (depending on the structure), and the effective distance of ultrasonic wave is 1.5m
	Laser avoidance, and can bypass obstacles, obstacle avoidance distance can be set.
Voice dialogue	Ultrasonic and laser are integrated completely, the reaction speed of obstacle avoidance is sensitive, and there is trigger signal at 0.1S.
	Can voice dialogue interaction, business consulting, business explanation
	In the mode of Chinese conversation, you can have English conversation directly without switching any mode. Chinese and English can talk freely, not limited by the mode.
	Four wheat array, voice wake-up, sound source location, recognition distance 5 meters, strong anti-interference, recognition rate more than 90%.
System	can customize conversations and import customized content in batches.
	It has the functions of semantic understanding, voice analysis and multi round dialogue
	You can edit 3000 conversations in the background. If you want to open more customized



background management	conversations, you need to be authorized by the manufacturer. There is no conflict between the background custom edit dialog and the local custom edit dialog (the number of local custom edit dialog is less than 3000), and the cumulative number is about 6000 custom dialog contents, which can be used compatibly at the same time.
	Face recognition data can be counted
	It can store business pictures and videos, such as pictures and videos matching the answers during the conversation.
	Each robot is equipped with an account and password,PC terminal to log in the background management system.
	It can be managed and edited by multiple robots simultaneously.
	can view the position status of the robot (special authorization from the manufacturer is required).
	Special industry voice library can be customized in the background (customized service)
	The upgrade system can be pushed remotely.
Voice command wake-up	wake up the robot by calling the wake-up word, then dialogue can be carried out, or voice can push out the dialogue mode.
Custom edit	Custom voice conversation content can be edited manually or imported in batches.
	Custom promotion pictures and videos.
	Custom face recognition membership
	Customize the navigation walk route
	Custom lead route
	Customize the recharge location
	Custom explanation content
	Custom explanation actions.
	Customize conversation actions
Customize body movements	
Related promotion content of voice dialogue	can customize the association between pictures and video content and voice conversation instructions. After you say the instructions, it can pop out the pictures or videos that need to be promoted on the screen.
	can customize the website page to be associated with voice conversation instructions. After you say the instructions, it can jump out of the website page to be promoted on the screen
	can customize the association between app and voice conversation instructions. After you say the instructions, it can open the AAP to be promoted on the screen.
Add app function	can add any app in the robot interface and open it for use.
Face recognition	It has the function of living detection and face recognition
	Camera pixel 2 million
	The resolution of the static picture shall not be less than 1024x768, and the camera shall be installed in front of the chest at an angle of about 45 degrees.
Display	Face recognition can shake hands with members after seeing them
	27 inch 10 point touch full angle screen, brightness greater than 250cd / m2, screen proportion 16:9. Resolution: 1920 * 1080 Full HD.
Computer configuration	Display size: 66x40 cm.
	2G operation memory, 8g storage memory
	Independent USB port, independent network port, independent audio port, independent



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	microphone outlet.
	It can be connected to the Internet with Wi-Fi, 4G card, There is a Bluetooth module
Endurance	24v15ah polymer lithium battery, waterproof, can be used for 9 hours.
	With quantity display module
	When the power is low, it can recharge by yourself.
Leading function	it can lead the guests to the business destination in the business hall, and automatically return to the starting point.
Software Function	Can be upgraded remotely, graphical user interface
	The business query platform can be opened in voice conversation mode.
Material	Plastic + acrylic + glass fiber + metal iron plate.
Surface technology	painting

Basic Parameters			
Height	160cm	Weight	55kg
Whole-body freedom	28pcs	Head freedom	4pcs
Arms freedom	22pcs	Chassis freedom	2pcs
Number of single chip	Chassis 1pc+upper body 1pc	Science fiction LED	10pcs
Finger tight structure	Steering wheel draws steel wire	Fingers, arms, head material	3D prints ABS engineering plastics
Screen Size	27 inch , high definition color LCD screen	Screen Type	Ten point touch screen, capacitance
Screen resolution(dpi)	1920*1080 FULLHD	Camera	2 million pixels
Size(mm)	660*400 mm	Battery and Specification	polymer lithium battery 24V12AH
Moving mode	wheel, forward, backward and turning	chassis structure	triangular steel
Microphone	Single microphone, noise reduction	loudspeaker	Double
Network Connection	Wi-Fi	supports Bluetooth	yes
Charging Time (h)	≤8 hours (normal 6h)	Working Time (h)	≥9hours
Rated input voltage (V)	220VAC	rated output voltage (V)	24VDC
Greeting human body sensor Distance	1 ~ 2m	ultrasonic distance	1 ~ 2m
Rated output current (A)	2A	rated power (W)	48W



Control parameters			
Remote control walking	The robot is controlled by mobile phone APP and remote control, The response time is less than 100ms;	The laser navigation robot walks	in the indoor laser to build the plane map.
The multi point navigation	robot can explain at different points, then go to the next point to explain different contents	Speech control(optional)	The robot responds to the voice commands, completes the forward, backward and turning, plays songs and so on
Dialogue system activation mode	The human body sensor and ultrasonic sensor	Sleep time of dialogue system	No sense of human after 5 minutes
In the case of obstacles	the robot will bypass the obstacle and continue to walk	control method	APP control, remote control, voice control
Safety Function			
Emergency stop	After the key was pressed, the robot stopped working	obstacle detection	real-time monitoring whether there are obstacles in front of the robot, measuring distance of 80 cm
Pedestrian detection	Real time monitoring if have one to pass by, say hello when someone come	Balance protection	The weight of the body is balanced, pull the waist will not fall down
Convenience function			
Remote voice broadcast	The remote control robot to play audio files, audio files can be edited by a text to audio playback software, convenient customer voice propaganda	Remote Control Swift	Robot remote control / tracing mode can be selected by mobile phone APP
Remote control parameters	APP control design sensor distance, walking speed	Set the ID No.	APP control point set (ID)
Remote software upgrade	When the software upgrade, the system automatically download the upgrade package, prompting users to upgrade	Ultrasonic parameters	Divide the first two, the left and the right two, respectively
Multimedia parameters			
Photo	Format: jpg Resolution: 1920*1080	Audio	Format: mp3 frequency range:32kbps-320kps
Video	Format: mp4 Resolution: 1920*1080	Text	Format: xml
Annex description			



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Standard Service	instructions, warranty cards, prompting labels, daily maintenance;	Standard Package	pearl cotton and wooden cases
Matching accessories	1 remote controls, 1 charger, 1 automatic charging pile	matching tools	1 set of six angle tool wrenches and 1 outer six angle tool wrenches

IV. Product Quotation

Type	unit-price (USD)	Tax point	transportation expenses	standard configuration	Optional
Doctor-1	1 remote controllers, 1 chargers, 1 automatic charging piles, 1 sets of six corner tool wrenches, 1 sets of six external tool wrenches, 1 wooden cases.	air box

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