Sanbot 三宝

Science and Technology Guide, People Oriented, Byond Ourselves, Harmonious Development

X Sanbot Robot   in Sanbot Robotics

Sanbot Robot   You Tube Sanbot Robotics

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Contents

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About
US

Company Profile

Sanbot Innovation

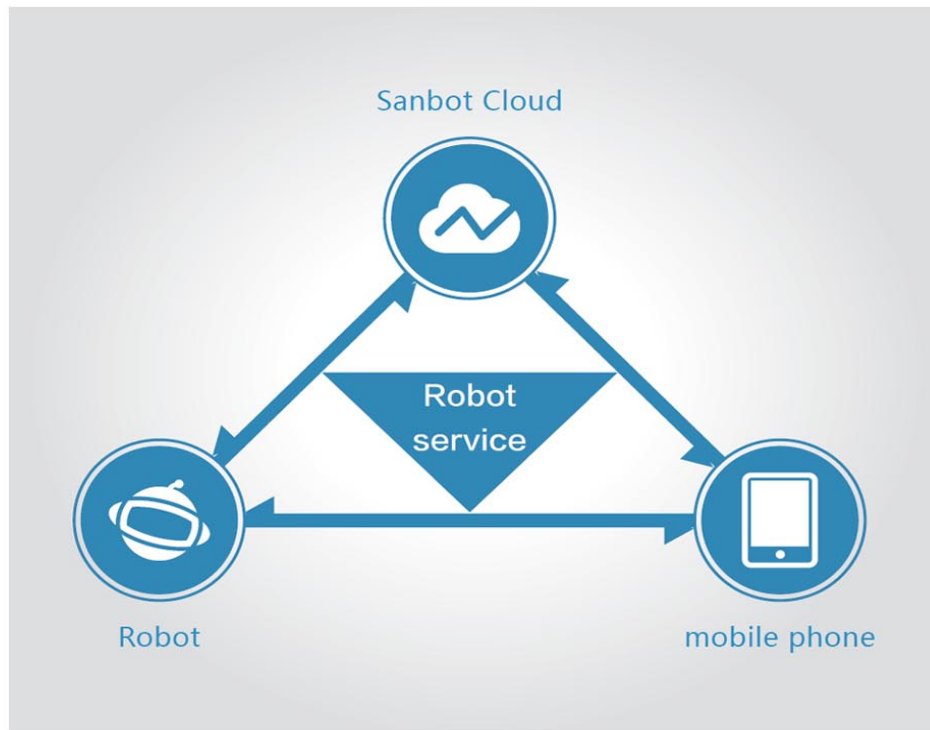Sanbot (Intelligent Hardware)

Sanbot Cloud (IOT Cloud Platform)

Artificial Intelligence + Internet of Things + Intelligent Hardware

Sanbot Cloud

Robot service

Robot

mobile phone

Sanbot Innovation Co., Ltd. owns two own brands, Sanbot and SanLink, based in Shenzhen and facing the world.

The company's products mainly focus on the intelligent hardware design of the robot and the design of the Internet of Things cloud platform. With a number of independent innovations, it covers areas such as artificial intelligence, big data and cloud computing.

The company currently has more than 100 patents such as robot vision recognition, motion control, 3D indoor positioning and navigation, and multi-sensor fusion obstacle avoidance.

Enterprise Structure

Sanbot Innovation Co.,Ltd

- Sanbot Innovation Co.,Ltd branch company (factory)
- Sanbot Robot Co.,Ltd
- Sanbot Innovation Cloud Technology Co.,Ltd
- Sanbot Innovation Eco-Technology Co., Ltd
- R&D Department
  - Testing Department
  - Internet Big Data Center
  - Innovation Research Institute
  - Development Center
- Sales & Marketing Department
  - Sales Department (Domestic & Overseas)
  - FAE Department
- Financial Department
- General Department
  - Commercial Department

History of Sanbot Products

Robot Dog

Consumer Products
2024-2025

Spray Disinfection Robot | Medical Robot

Medical Robot
2022-2024

Mini Elf

Retail Robot
2018-2020

Sanbot Max

Commercial Platform Robot
2016-2018

Sanbot Nano | Sanbot Elf

Home Use Platform Robot
2014-2017

Intelligent Hardware

History of Sanbot Cloud

Future Imagination 2023~
- Big data: data storage, data mining
- Equipment access: Internet of everything, access to everything
- ZHIYIN semantics: flexible customization, free jump
- Image recognition: object recognition, special recognition

Entering the Vertical Industry 2019-2023
- Medical industry: health consultation, consultation, emergency call
- Education industry: entrance examination, campus management, classroom teaching assistant, psychological counseling
- Corporate front desk: employee punching, reception process customization, inspection video, cloud storage

Scene Development 2018-2019
- Corporate front desk: reception desk, exhibition hall presentation, security patrol
- Government reception: policy advisory, lobby service
- Bank lobby: lobby manager, lobby security
- Sanbot cloud commercialization: account access, AI cloud service

Ecological Development 2016-2017
- Operational ecology: multi-service platform system
- Developer ecology: APP audit system, application market
- Client: iOS/android/windows/web
- Internal management: FAE system, operation and maintenance system
- AI: face recognition, ZHIYIN semantics, object recognition
- Customized service: mobile APP customization, robot application customization
- Portal display: Sanbot cloud official website, BBS forum

Initial Construction 2014-2015
- Build a basic IM communication and account system
- Build a P2P streaming media penetration and forwarding system
- Build a robot APP application market

Sanbot Innovation Patents

More than 100 patents, some of which are as follows:

- Robot autonomous obstacle avoidance method and device
- Hybrid tone mapping method for machine vision
- Integrated tone mapping method for machine vision
- Image sensor white balance processing method
- Image dead pixel correction method and image sensor
- Robot appearance patent
- Device for robot face recognition
- Robot based on face tracking for intelligent follow-up
- Robot indoor positioning system based on 3D camera

- Sound source localization processing module for realizing robotic hearing function
- Rotating mechanism of the robot head
- Waist structure for humanoid robot
- Robot automatic charging system and charging method thereof
- Automatic search for charging pile robot based on machine vision recognition
- Mecanum wheel design patent
- Integrated Mecanum wheel driven by a hub motor
- Manipulator controlled by torsion springs and steering gear
- Robots that actively conduct security monitoring at night
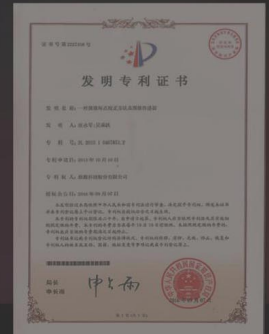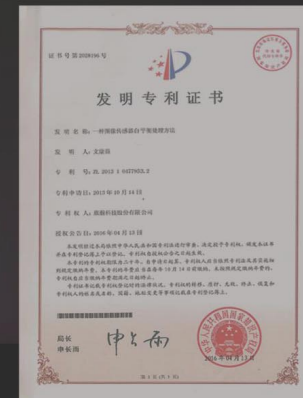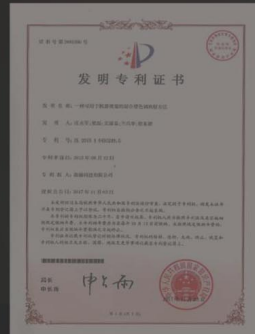
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About
Sanbot ELF

Elf
Robot

Humanoid design
Very beautiful, with hands, feet and waist, affinity image.

Voice interaction + Face recognition
Self-developed "ZHIYIN" semantic system, self-developed high-performance face detection and face recognition technology.

Rich perception
The body is equipped with a variety of types of sensors to achieve "look, listen, touch sensing" and other functions.

Scene customization
UI customization, semantic customization, to meet the needs of different scenarios.

"Hardware, APP, Cloud Service" trinity system
Through the software application development platform-Sanbot cloud, cloud storage, cloud computing and rich online resource applications are connected with robot terminals and mobile APPs to adapt to different application scenarios.

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Specs for
Sanbot Elf

Product Parameter

Size	902mm(H) x 421mm(W) x 331mm(D)
Weight	19kg
Battery	Type: Li-ion; Capacity: 20Ah/288Wh; Normal use time is about 10h, Stand-by time is more than 20h
Sensor	Head: Mic x 7, RGB camera x 1, 3D sensor x 1, Touch sensor x 7; Body: PIR sensor x 2, IR obstacle avoidance sensor x 3, IR receiver sensor x 6, Touch sensor x 4, 　　　Gyroscope sensor x 1, Electronic compass sensor x 1, RGB camera x 1; Hand: IR obstacle avoidance sensor x 4, Touch sensor x 2; Chassis: IR obstacle avoidance sensor x 10, Omnidirectional wheel x 3
Moving parts	Head: 2 x DOF, 180 degree at horizontal direction, 30 degree at vertical direction; Hand: 1x2(L/R)DOF, 270 degree swing back and forth; Chassis: 3 x DOF, Free angle
Camera	8.0MP HD camera; 1.0MP HD color camera with 140 degree aspheric surface angle
Display	10.1 inch 1080P HD capacitance 10-point touch display
Platform	Android / ROS
Atmosphere lamp	250 kinds customized colors; 2 cycles for ears , 2 pcs for hands, and 1 cycle for chassis
Sound	Voice control, 360 degree sound localization; 4 x tweeter, 1 x woofer
Moving speed	0.8m/s max, 1.5cm max
Wireless network	WiFi: IEEE 802.11 a/b/g/n(2.4GHz/5GHz); ZigBee; BT 4.0
Charging mode	Auto charging, Manual charging, Cable charging
Charging pile	Size: 242.7mm(H) x 248.5mm(W) x 110mm(D);　　　Weight: 1.35kg(including adapter); Input: AC 100-240V 50/60Hz;　　　　　　　　　Output: DC 19V/4.75A; Operating temperature: 0℃～+35℃(in door);　　Operating humidity: 10%～90%(in door); Auto Charging distance: 0-5 meters, 180° signal covering; Installation: Floor or wall-mounted;　　　　　　 Indicator light: 1 x LED breathing light

Elf Greet
Service Solutions

Warm welcome doorman
Through face detection, human body sensing, distance determination, touch sensing, etc., the robot can automatically perceive the arrival of customers, actively play the welcome message and start reception. The welcome message at reception is customizable.

Professional consulting customer service
Combined with the "ZHIYIN" semantic system, the robot allows customers to provide business consultations on brands, product prices, promotions, new products, and peripheral services, adapting to various scenarios in the new retail field.

Enthusiastic product announcer
The customer searches the product by voice or touch screen, and allows the robot to introduce the product to the customer. Support for importing the product promotion content of video and ppt format.

Attract customers strength
The robot dance program is on the scene, attracting customers to take pictures and attract customers.

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Elf Early Childhood Education Solutions

Admission morning check
At the school gate, the robot welcomes the children with a cute smile and a warm greeting. It guides the children to conduct health tests, and uses face recognition and spot detection algorithms to help the school doctor discover the skin abnormalities of the children's faces and palms in time.

### Smart assistant, teacher's helper
In the classroom, the robot cooperates with the teacher to teach the children, guides the children to carry out interesting learning, and improves the teaching quality of the children's classroom.

Make courseware efficiently, share excellent resources
Provides an easy-to-use courseware editing backend and a complete courseware review mechanism.

New friend at recess, good student buddy
The robot is cute and easy to get close, and has entertainment functions such as music, dance and motion sensing games. Not only often speak polite words, but also regularly broadcast good habits of life. Be a good example and a good friend for children, help children grow up healthily and happily, and let children fall in love with kindergarten from now on.
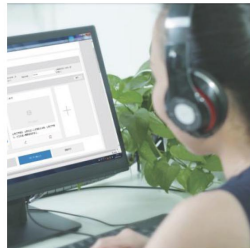
Elf Healthcare Solutions

Timely health consultation
Implant tens of thousands of daily basic medical health information to be your personal health doctor. Online pharmacies and online doctors can let you enjoy convenient services such as online consultation and drug delivery at home.

Intimate health reminder
Children can set up a variety of intimate life reminders such as medication, drinking water, rest, etc. on the mobile phone app anytime and anywhere. The robot will remind the family through voice and interface display on time.

Urgent call for help
When a family member touches the robot to specify the touch area or clicks "Help", the robot will automatically contact the family doctor, children, property, neighbors... and continue to broadcast to all emergency contacts until someone answers.
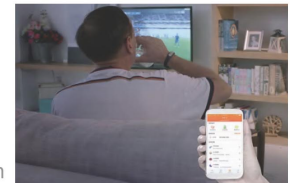
Simple medical consultation
Customize the content of the consultation and realize the function of self-directed diagnosis.

Elf Psychological Counseling Solutions

Let students talk without stress

Changing the regular form of the psychological counseling room, the cartoon image of the robot makes the students feel interesting, relaxed, and secure. They can easily enter the psychological counseling room without pressure, and interact with the robot without any scruples. Relieve your heart and troubles.

Let the teacher know the problem directly

Through the background service system and the robot as a bridge of communication, the psychological counseling teachers are more likely to let the students open their hearts and talk about their distress, let the teachers quickly understand the students' inner hearts, help the students to recognize the problems and guide the students to solve the problems.

Management system is easy to operate

Through the tutoring robot management system, the psychological counseling teacher can easily establish a professional psychological counseling question bank, and cooperate with the teacher to understand the students' psychological problems through answering questions, pictures, videos, etc., and assist the teacher to make professional judgments.

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About Sanbot Max

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Max
Robot

Multi-degree of freedom bionic arm
Each arm and palm have 10 degrees of freedom, and the body has a total of 28 degrees of freedom, enabling a variety of postures to be displayed.

Voice interaction + Face recognition
Self-developed ZHIYIN semantic system, support semantic customization, self-developed high-performance face detection and face recognition technology.

Developer Eco + Extension interface
Provide a wide range of standard hardware and software interfaces to support developers to develop independently with the needs of the scene. Has a rich interface such as USB, RJ45, HDMI, etc., can access a variety of electronic devices.

3D SLAM indoor construction map navigation
Single map construction with up to 5000㎡, indoor positioning, trajectory planning, autonomous navigation.

Omni-directional obstacle avoidance strategy
A variety of sensors such as 3D structured light + ultrasonic + infrared + single-point laser are used to avoid obstacles, enabling free walking in complex environments such as emergency braking and obstacle bypass.
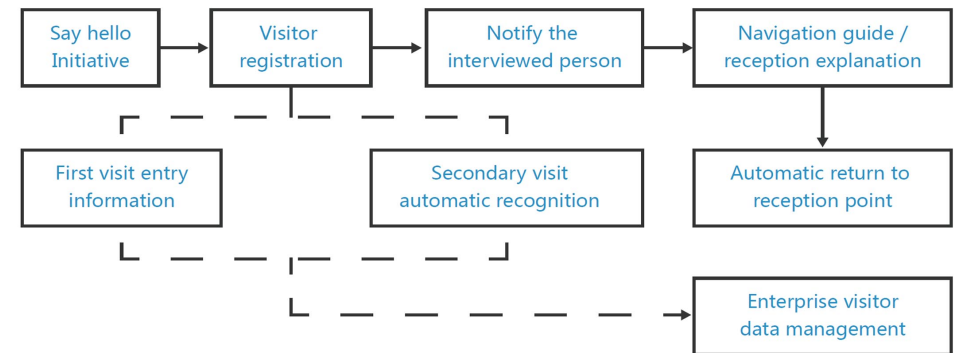
Specs for
Sanbot Max

Product model	Professional version	Standard version
Size	1370mm(H) x 763mm(W) x 615mm(D)	1370mm(H) x 763mm(W) x 615mm(D)
Weight	100Kg	About 90kg
Battery	Lithium battery capacity: 1.27KWh; Voltage: 35.2V; Normal use time is about 14h; Stand-by time is more than 39h	Lithium battery capacity: 1.27KWh; Voltage: 35.2V; Normal use time is about 12h
Primary Sensor	MIC, HD color camera, 3D camera, Visual camera, Touch sensor, HD camera, PIR, Ultrasonic, Gyroscope, IR, Pressure sensor, Magnetic sensor, RFID card reader	MIC, HD color camera, 3D camera, Visual camera, Touch sensor, HD camera, PIR, Ultrasonic, Gyroscope, IR
Display	1080P, 10.1 inch touchscreen	1080P, 10.1 inch touchscreen
Degree of Freedom (motor)	Head: x3 (Horizontal 180 degree, Vertical 90 degree) Arm: x10 Palm: x10 Waist: x1 Chassis: x4	Head: x2 (Horizontal 180 degree, Vertical 45 degree) Arm: x10 Palm: x10 Chassis: x4
OS	Android / LINUX / ROS / RTOS	Android / LINUX / ROS / RTOS
Moving	4-wheel drive (External hub motor and Mecanum wheel)	External hub motor and Mecanum wheel x4
Speed	0~5m/s	0~5m/s
Climb height	4.5cm	4.5cm
Head	Microphone: x7, Eye display: OLED x2, Ambient light: RGB x2, Speaker: mid range tweeter x2, DOF: x3 (Horizontal 180 degree, Vertical 90 degree), HD camera: 720P x1, Visual camera: x 1, 3D camera: x1, Lighting: LED Light x1, Touch sensor: x1	Microphone: x7, Eye display: OLED x2, Ambient light: RGB x2, Speaker: mid range tweeter x2, DOF: x2 (Horizontal 180 degree, Vertical 45 degree), HD camera: 720P x1, Visual camera: x 1, 3D camera: x1, Lighting: LED Light x1, Touch sensor: x1

Specs for Sanbot Max

Product model	Professional version	Standard version
Torso	Display: 10.1 inch 1080P touchscreen HD camera: x1 PIR: x2 Ultrasonic: x2 Speaker: mid range tweeter x2 DOF: x1 Touch sensor: x2 Rear cabin: A type USB x2 / Micro USB x1 / Dial switch x2 Front cabin: AC 220V security socket x1 / DC 12V socket x1 / HDMI socket x1 / A type USB x1 / Ethernet RJ45 Port x1 / AUDIO IN Port x1 / I²C Port x1 Bracket: Pressure sensor x1	Display: 10.1 inch 1080P touchscreen HD camera: x1 PIR: x2 Ultrasonic: x2 Speaker: mid range tweeter x2 Touch sensor: x2 Rear cabin: A type USB x2 / Micro USB x1 / Dial switch x2 Front cabin: HDMI socket x1 / A type USB x1 / Ethernet RJ45 Port x1 / AUDIO IN Port x1 / I²C Port x1
Arm (x2)	Arm DOF: x5 Hand DOF: x5 Touch sensor: x4 IR distance sensor: x3 Ambient light: x1	Arm DOF: x5 Hand DOF: x5 Touch sensor: x4 IR distance sensor: x3 Ambient light: x1
Chassis	Wheel: External hub motor + Mecanum wheel x4 IR distance sensor: x18 Ultrasonic: x6 3D camera: x4 Visual camera: x 1 Speaker: Subwoofer x1 Traction hook: x1 On/Off switch: x1 Charging port: x1 Charging indicator light: x1 Direction light: x3 Magnetic sensor: x2 RFID: x1 Ethernet RJ45 Port: x1 DC 12V socket: x1 AUDIO IN Port: x1	Wheel: External hub motor + Mecanum wheel x4 IR distance sensor: x18 Ultrasonic: x6 3D camera: x4 Visual camera: x 1 Speaker: Subwoofer x1 On/Off switch: x1 Charging port: x1 Charging indicator light: x1 Direction light: x3
Charging mode	Auto charging, Manual charging, Cable charging	Auto charging, Manual charging, Cable charging
Carrying weight	75kg	None

Max Enterprise Service Solutions

A humorous chat expert and a professional on-site customer service agent
Let the robot provide visitors with introduction services such as corporate products and peripherals to enhance corporate image.

Go where you want to go, follow me
Let the robot lead the visitors to the reception room, conference room, exhibition hall, etc., combined with the laser + ultrasonic + infrared comprehensive obstacle avoidance design, can detect the surrounding obstacles in real time and ensure the safety of the road guiding process.

Standardized visit process, I will never forget words
Let the robot lead visitors to visit the company's office environment and introduce the company. The preaching route (supporting multiple articles) and the introduction content can be preset in advance.

Safety inspections do not slack
Let the robot patrol, regularly perform security patrols according to the specified trajectory, and simultaneously record the audio and video of the environment scene for future inquiry.

Task execution, methodically
Automatic charging at midnight, morning face attendance, day business reception, night security inspection.

Max Bank Solutions

Warm door welcome service
The robot can automatically sense the arrival of customers, actively attract customers to voice conversations, and provide exclusive intelligent services for VIP customers and ordinary customers through face recognition.

Professional bank customer service
The robot has the ability to continuously update the bank's proprietary knowledge base, and can provide customers with information about distribution outlets, wealth management products, exchange rate, common business processing, etc.

Unpaid pilots are not afraid of hard work
According to the bank's pre-set propaganda route, content, duration, frequency, etc., let the robots play in the bank and promote different advertising content in different time periods.

Novel way of guiding in the bank
According to the bank map, the robot can accurately find the target location in the bank, guide the customers, and can flexibly bypass and continue to move forward if encountering obstacles in front of the route.

Max Customs Solutions

Informative Q & A
The robot has a built-in customs question and answer database dedicated to customs entry and exit, which can provide voice consulting and answering services for passengers passing through the scene.

Majestic customs missionary
Utilize the attraction of robots to the public and broadcast the notices to passengers related to customs entry and exit. The broadcast content can be pushed in the background, and at the same time, it can help customs staff to promote information.

Accurate high and low temperature monitoring
Use the thermal imaging camera and visible light camera on the robot's shoulder to obtain the passenger's temperature information. When the body temperature of the person is abnormal, the robot will prompt with real-time voice and send the image information of the abnormal person to the associated mobile monitoring equipment, which is convenient for customs staff to receive the information for quickly inspection.

Powerful translation tools
The robot integrates professional translation applications in up to 28 languages, including Chinese, English, Japanese, Korean and French. It can quickly translate the required content. Translation methods include voice-to-speech and text translation, which can help field staff to face multinational passengers calmly.

Novel navigation approach
The robot supports 3D SLAM mapping, realizing indoor real-time positioning, dynamic planning of action path, active navigation, and real-time mileage calculation. Let the robot lead the visitor to the location that needs to be reached and to improve the customer experience. The all-round obstacle avoidance design of laser + ultrasonic + infrared can detect surrounding obstacles in real time, support obstacle detours and emergency deceleration, and ensure safety.

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About
Mini ELF

Product
Advantage

People foremost, enthusiastic and initiative
Mini ELF as a robot with simple and compact appearance, strong sense of science and technology, based on ultra-high performance hardware platform, and capable of integrating various artificial intelligence technologies such as voice recognition, face detection, face recognition and face tracking.

Cater to the perspective, comfortable experience
Multiple moving parts realize free angle and actively adjust the most comfortable angle by the sensor following the user's orientation.

Face identification
Support online face recognition, quickly identify the user's identity, according to the user's habits to provide personalized services.

Privacy security, from the source
Control of banning camera and mic is only allowed to be enabled by finger touch, avoiding any possibility of remote opening.

Rich interface, support intelligent peripheral access
To meet business requirements in different usage scenarios by connecting intelligent peripheral.

Reception

School

Security

Consult

Family
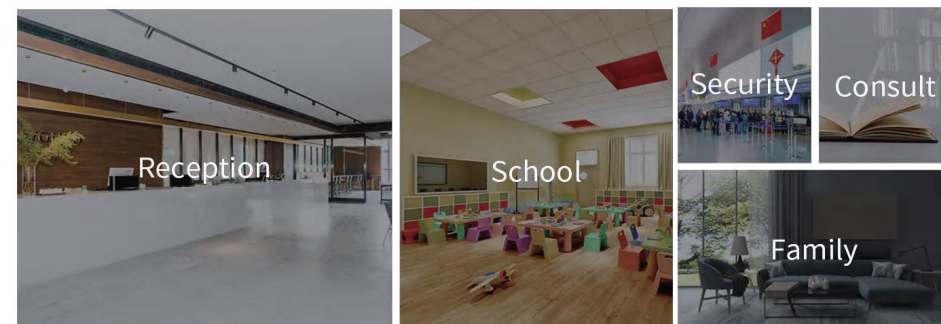
Specs for
Mini Elf

Product model	PRO	BASE
Size	533.6mm(H) x 296mm(W) x 281mm(D) 30x53x28cm(standard angle), 30x59x30cm(max angle)	533.6mm(H) x 296mm(W) x 281mm(D) 30x53x28cm(standard angle), 30x59x30cm(max angle)
Weight	5kg	5kg
Sensor	RGB camera, 3D camera, Mic, PIR, Infrared distance measurement	RGB camera, Mic, PIR, Infrared distance measurement
Display	10.1 inch 1080P HD capacitance 10-point touch display	10.1 inch 1080P HD capacitance 10-point touch display
Degree of freedom (motor)	Face: x2 (180° rotation, 58° up and down) Neck: x3 (180° horizontal, 48° forth and back)	Face: x2 (180° rotation, 58° up and down) Neck: x3 (180° horizontal, 48° forth and back)
Touch	Adjust brightness, adjust volume, wake up (Some software versions can control the volume touch in the settings)	Adjust brightness, adjust volume, wake up (Some software versions can control the volume touch in the settings)
Touch switch	Ban mic (light up) + Ban camera (light up)	None
Atmosphere show	LED (256 colors)	LED (256 colors)
Sound	2 x bass reflex full-range speaker (12W, 2 inch)	2 x bass reflex full-range speaker (12W, 2 inch)
Network	RJ45+WIFI (IEEE 802.11 a/b/g/n(2.4GHz/5GHz))	RJ45+WIFI (IEEE 802.11 a/b/g/n(2.4GHz/5GHz))
Platform	ROS1.2 Android 7.1	ROS1.2 Android 7.1
Expansion port	4 x USB, 1 x Type-C	4 x USB, 1 x Type-C
Power supply	AC220/110V	AC220/110V

Mini Elf
Retail Solutions

Promotion operation service
The display interface can provide product promotion advertisement carousel, merchandise operation display, merchandise promotion guidance (content can be imported locally, support picture and video formats).

Welcome consultation
Warm and proactive welcome service, online product consultation service.

Remote store viewing
The administrator can retrieve the robot video online through the mobile APP (SanLink), and check the status of store in real time to monitor the service efficiency of the staff.

Customer management
Provide research tools to collect customer feedback and complaints, and optimize store operation and management.

Store inventory
The robot initiates a regular inventory task to remind the store staff to perform the inventory counts, record the store information and inventory content and report it to the store manager or boss for remote viewing on the mobile phone.

Data management
Record and count guest operations, consultations, interactive content, form statistical reports, build customer identity portraits, and provide them to the manager or boss's mobile phone for remote viewing.
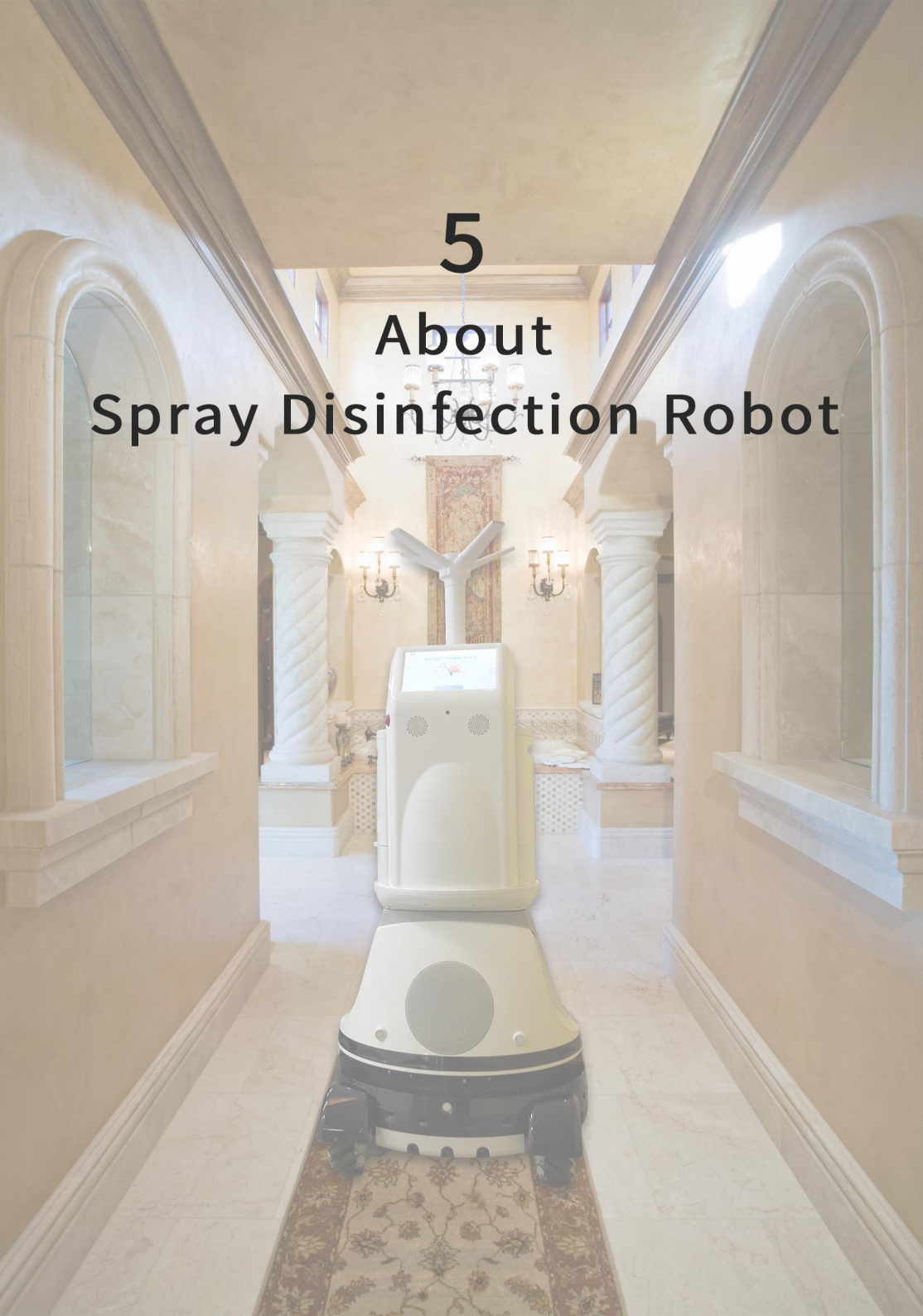
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About
Spray Disinfection Robot

Spray Disinfection Robot

Precise navigation
4-wheel drive external hub motor + Mecanum wheel chassis design, 3D SLAM high-resolution mapping, high positioning and navigation accuracy. 360° real-time perception of indoor environment, 3D laser vision + infrared + ultrasonic multi-sensor fusion strategy, autonomous path planning. The speed is fast, and the navigation automatically avoids people and objects to ensure safe.
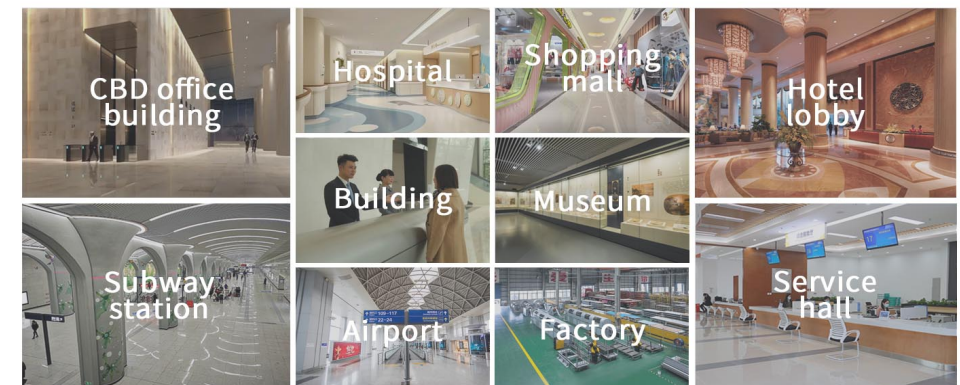
Easy operation, independent work
Intelligent automatic control system, simple and convenient installation. Customize the task settings, and automatically execute the offline scheduled spray disinfection operation of the designated route, with higher safety and stability, covering an area of up to 5,000 square meters.

Efficient sterilization, wide coverage
Powerful spraying disinfection, remove viruses and bacteria on the surface of objects and in the air, effectively purify the air, high efficiency disinfection. 360° completely coverage, with four-angle nozzles, to achieve all-round operation in a higher and wider space.

Super battery life, automatic recharge
With high-quality and high-capacity lithium iron phosphate battery, long standby time of 38 hours, continuous spraying time of up to 5 hours. Precise automatic charging strategy and safety strategy, it will automatically return to charging without management.

CBD office building
Hospital
Shopping mall
Hotel lobby
Building
Museum
Subway station
Airport
Factory
Service hall

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Specs for Spray Disinfection Robot

Product Parameter

Main size	595*615*1530mm
Charging pile size	340.6*164.5*307mm
Net weight	76Kg
Moving way	Autonomous path planning
Moving speed	2m/s max
Navigation accuracy	5mm
Position accuracy	±5cm
Gradeability	<15°
Climb height	4.5cm
Standby time	38h
Battery life	5h
Disinfection method	Disinfectant ultra-dry nebulizing spray
Available disinfectant	Hypochlorous acid, chlorine dioxide, etc.
Water tank volume	16L
Spray distance	1.5m
Atomization efficiency	1L/h
Disinfection ability	>6log

Smart Spray Disinfection Solutions

Timed spray disinfection in designated area
The robot starts the navigation and spray-disinfecting equipment, navigates to the designated location according to the coordinate information of the map, completes the navigation and spray disinfecting work of each location in the task in turn, and finally returns to the designated waiting place.

Mobile humidifier
16-liter large-capacity water tank, 8-layer atomizer design, two-speed fog volume adjustment, newly upgraded safety solenoid valve, silent, stable and water-proof. You can add water just by removing the lid, no need to shut down or move the tank. Adding disinfectant can be used for disinfection, adding water can be used for high-level humidification, rapid atomization, and multi-purpose. You can freely choose the mist outlet and four-direction nozzle, which is suitable for multi-angle three-dimensional spraying in various environmental spaces.

Water shortage protection
When the robot is ready to perform the spraying and disinfecting task, it will first detect the water level of the liquid storage tank. If the water level is lower than the rated value, the robot will give an alarm of insufficient water through voice prompts and screen display.

Obstacle detour and emergency braking
Using 3D SLAM mapping technology, it supports real-time positioning, navigation and dynamic path planning. During the navigation process, the working environment is monitored in real time. Combined with the multi-sensor fusion obstacle avoidance strategy of laser + ultrasonic + infrared, when the robot encounters an obstacle during the spray disinfecting process, it will avoid the obstacle and re-plan the path to continue the spray disinfecting work. When encountering emergencies, press the red button on the side to stop the current task immediately.

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About
Medical Robot

Medical Robot

Health manager, resource sharing
Provide common health testing items and manage your health reports and personal files . Connect with high-quality AI consultation, Internet hospitals, online doctors, online medicines and other resources to serve your health in real time.

Intimate design, efficient storage
Fully consider the placement of various health testing equipment, and rationally design multiple storage spaces to make small equipment neat , easy to access, and difficult to lose.

Easy to operate, long battery life
upport voice control and 15.6 inch HD touch screen operation. Equipped with high-quality and high-capacity batteries, a variety of charging methods can meet the needs of various usage scenarios.

Flexible expansion, more possibilities
The hardware is equipped with an 8-megapixel HD camera, infrared, human body sensing and other sensing devices , as well as USB and Type-C interfaces. The software is open to WiFi , Bluetooth and SDK. Support docking with hardware equipment, medical service systems, medical malls, etc., making the robot more open.
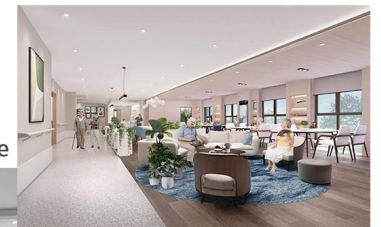
Community healthcare service

Family

Nursing homes

Specs for
Medical Robot

Product Parameter

Size	506(L) x 409(W) x 1200(H)mm
Weight	18.2kg
Battery	Type: Li-ion; Capacity: 20Ah/288Wh; Normal use time is about 10h; Stand-by time is more than 20h

Sensor	Head: 15.6 inch display, Mic x 4, HD camera x 1, USB 2.0 x 1, Type-C x 1, On-off key x 1,
	    Flash key x 1
	Body: PIR sensor x 2, IR obstacle avoidance sensor x 1, Touch sensor x 5, Gyroscope sensor
	    x 1, Electronic compass sensor x1, Speaker x 2
	Chassis: IR obstacle avoidance sensor x 8, Anti-drop sensor x 2, Omnidirectional wheel x 3

Moving parts	Head: 15 degree at vertical direction Hand: 2 storage boxes, 112(L) x 60(W) x 62(H)mm Body: 1 storage box, 176(L) x142(W) x 177(H)mm Chassis: 3 x DOF, Free angle
Camera	8.0MP HD camera
Display	15.6 inch 1080P HD capacitance 10-point touch display
OS	Android 12 / ROS 2.0
Platform	RK3568; Built-in storage 4G+32G, 6G+128G max
Sound	Voice control, 2 x tweeter
Wireless network	WiFi: IEEE 802.11 a/b/g/n(2.4GHz/5GHz); ZigBee; BT 5.0
Atmosphere lamp	250 kinds customized colors; 2 light belts
Moving speed	0.8m/s max, 1.5cm max
Charging mode	Auto charging, Manual charging, Cable charging
Charging mode	Size: 242.7mm(H) x 248.5mm(W) x 110mm(D); Weight: 1.35kg(Including adapter); Input: AC 100-240V 50/60Hz; Output: DC 19V/4.75A; Operating temperature: 0°C~+35°C(in door); Operating humidity: 10%~90%(in door); Auto charging distance: 0~5m, 180° signal covering; Installation: Floor or wall-mounted; Indicator light: 1 x LED breathing light

Smart Medical
Solutions

One-stop health management
Equipped with a variety of medical testing equipment for multi-index testing, automatically generate testing reports, and establish personal health files. Professional statistics and assessment of health status, efficient intervention in chronic disease management and big data analysis of community groups.

### Online doctor remote consultation
Conduct real-time online video consultations with licensed doctors, or answer questions from the AI intelligent consultation service through voice or clicks, and view consultation opinion reports. Improve the efficiency of medical services and promote the sharing of medical resources across regions.

Worry-free online medicine shopping
The pharmacy is right next to you, and you can enjoy the convenient services of online medicine purchase, medical insurance payment, and rapid delivery anytime and anywhere, making buying medicines convenient and affordable, and enjoying health anytime.

Real-time audio and video monitoring
Supporting HD video surveillance, it can realize two-way video calls between the elderly and their children, and nursing homes. It can also connect with community hospitals, medical care, emergency help, etc., accelerating the intelligent development of the medical system.
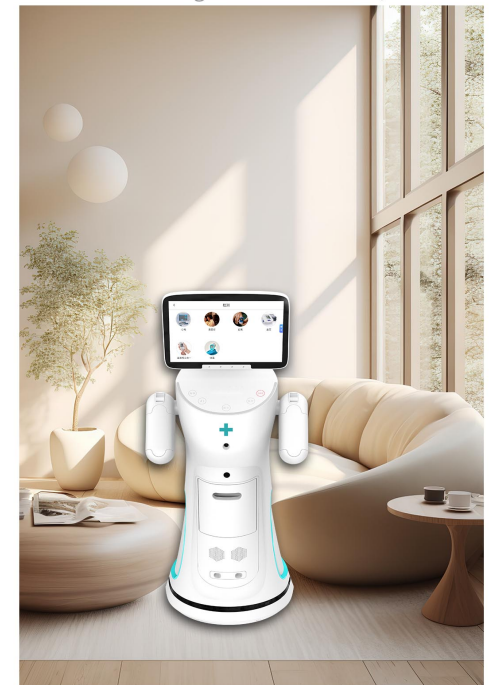
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About
Sanbot Cloud

Introduction of Sanbot Cloud Products and Services

Introduction of Sanbot Cloud
Designed based on "Iot platform + AI", service for c-end users, agents, developers and enterprise applications etc. The services included are account registration and login, personal center, ZHIYIN semantic system, MPS, SDK, APP audit system, BBS communication, solution, download center, operation and maintenance system and help center etc.

Communication Control System
Support robot ID, SanLink account or cloud account to access to Sanbot cloud system, and realize real-time information exchange between users and robots through IM, such as text chat, voice chat, audio and video chat, and sending pictures, videos, files, expressions, etc. It allows users to remotely control and set the robot through the system, supports third-party hardware devices to access, easily realizes the control of things, and rapidly intelligent upgrade.

AI (Cloud Computing)
ZhiYin semantic: Semantic platform supports free input and easy management. Speech recognition can freely choose iflytek, baidu, IBM Watson, Nuance and other voice solutions.
Object recognition: Support face recognition, object recognition, special spot recognition and other technologies.

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MPS
MPS (Multi-Service Platform System) is a robot management system for agent. Iot, mobile network and big data analysis as the technical core, it provides businesses and users with unified robot management, material management, service push, data statistics and other services. Open the browser to log in the MPS system, operation and maintenance management is not restricted by the environment, modular design can continue to add business modules, and support the association to other account to manage the robot. It can provide you with a comprehensive, fast operation management services.

Cloud Storage
Provide cloud storage service for important robot files, such as alarm video files, inspection video files, map files, robot log information, etc.

Developer Ecosystems
Provide the SDK download and develop of mobile and robot; The opening robot app market allows users to submit personal or enterprise apps, which will be promoted to the robot market after passing the test of sanbot app audit system; Allow third-party apps to be published in the APP market.

Introduction of Sanbot Cloud Products and Services

Software Development
It provides a complete software and hardware interactive solution for the developers, realizing application customization based on Sanbot robot, mobile APP customization, vertical industry system customization (such as rental system, psychological counseling system), to meet the unique needs of robots in different industries and fields.

Big Data Analysis
In order to provide data services for customers and provide strong data support for product optimization and operation decisions, it can collect partial data of the robot and generate visual charts under the user's permission and meeting the requirements of laws and regulations.

Data Driven, Accurate Operation
It can provide strong support for users' business operation and data operation as its strong data statistics ability and operation management background.

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Sanbot
at Work