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Professional tour guide robot

PPBOT

The company is committed to creating "truly" highly interactive, high-tech, and highly intelligent tour guide robot products. The "PiPi" robot was born for tour guiding. It uses high-precision SLAM navigation and positioning algorithms to achieve optimized and convenient interactive operations. It can realize functions such as robot reception, leading explanations, and intelligent inquiries. In addition, it provides customized services from the appearance to the function of the robot, so that the robot and the theme of the exhibition hall are integrated.

Professional tour guide robot

Self-developed full-chain AI technology

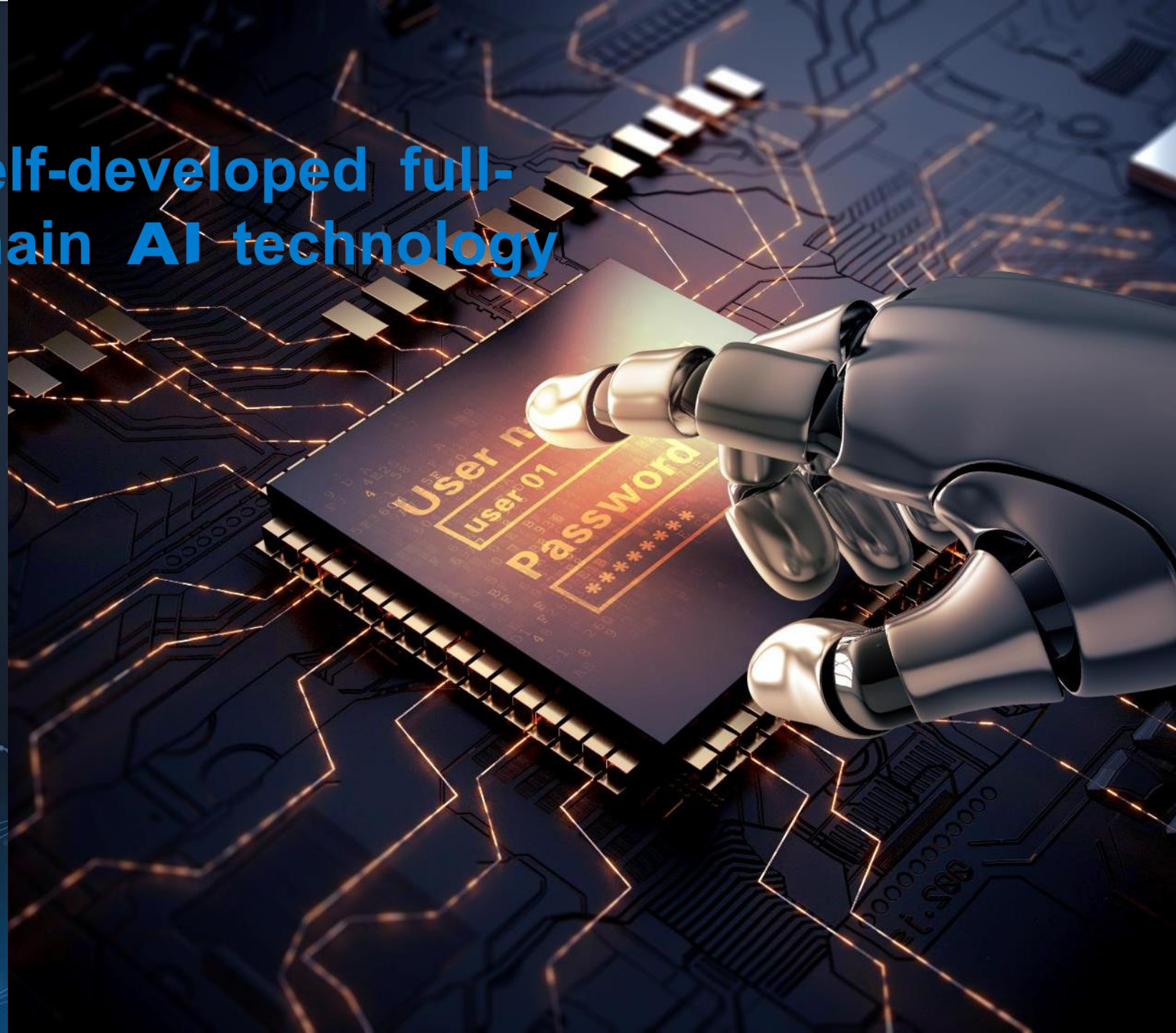
口 Full chain Voice technology

耳 6-microphone array Speech-to-text

眼 Full perception Intelligent recognition

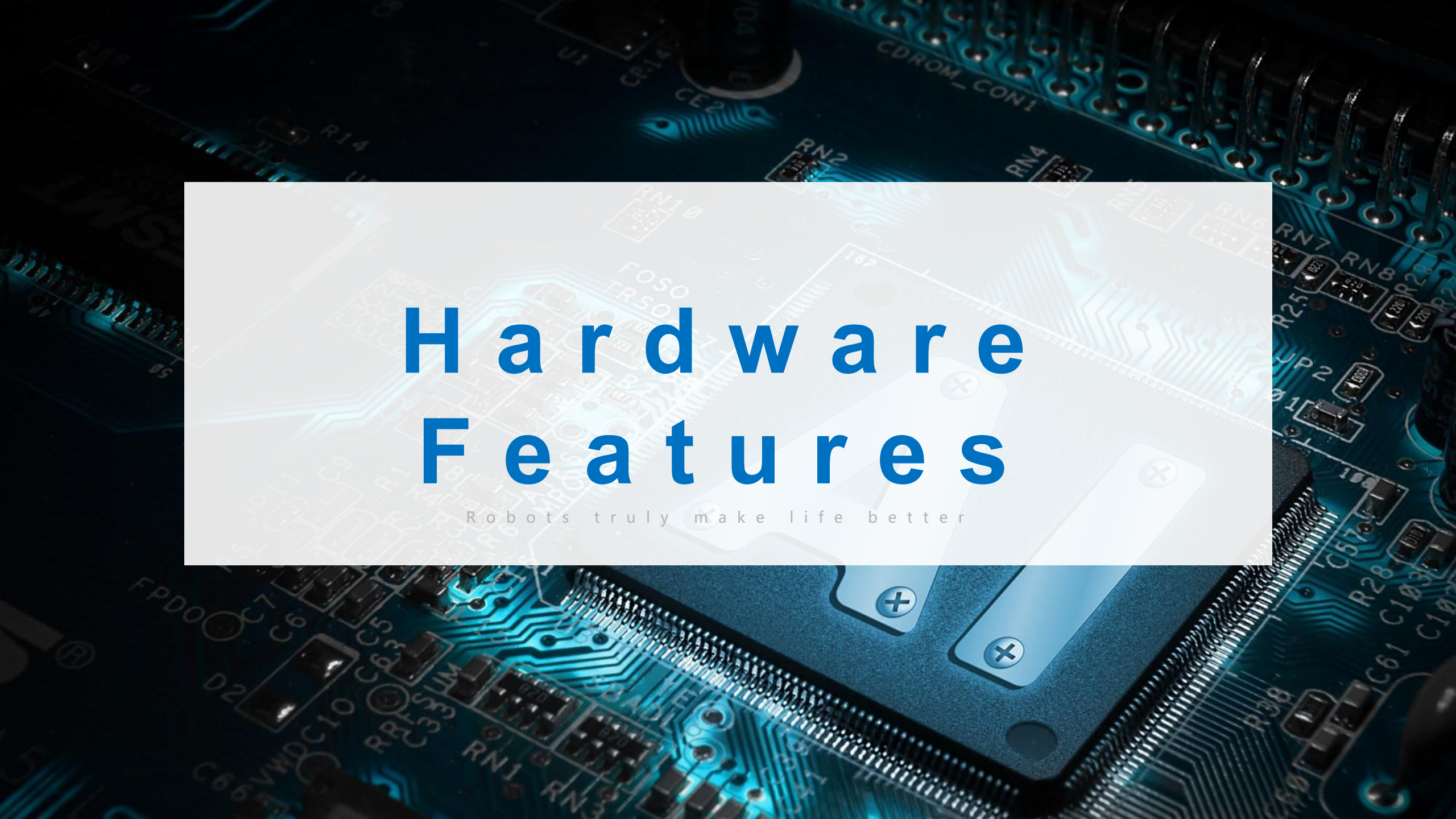
腿 Indoor autonomous navigation platform

脑 Equipped with super powerful chip system



PARAMETERS

Size	480mm*480mm*1300mm
NW	60Kg
head screen	8inch, 1280*800px
body screen	21.5 inch, 1920*1080px
Content Import	Supports importing videos, pictures, voice and other content
Tour method	Fixed route tour, fixed point tour
Mobile Mode	Map navigation, autonomous path planning
Speech Recognition	6 microphone arrays, 360° sound source positioning, intelligent voice interaction
Image Recognition	5M camera, depth camera, face recognition, motion recognition
sensor	LiDAR, ultrasonic, anti-drop, collision sensor, etc.
Electricity usage	4-5 hours of charging, 12 hours of battery life, automatic recharge at low battery
charger sizes	350mm*140mm*280mm
network	WIFI 2.4/5G, supports SIM card access to mobile network
Movement Speed	Default speed 0.7m/s, maximum speed 1.2m/s
扬声器	支持,头部两侧出音



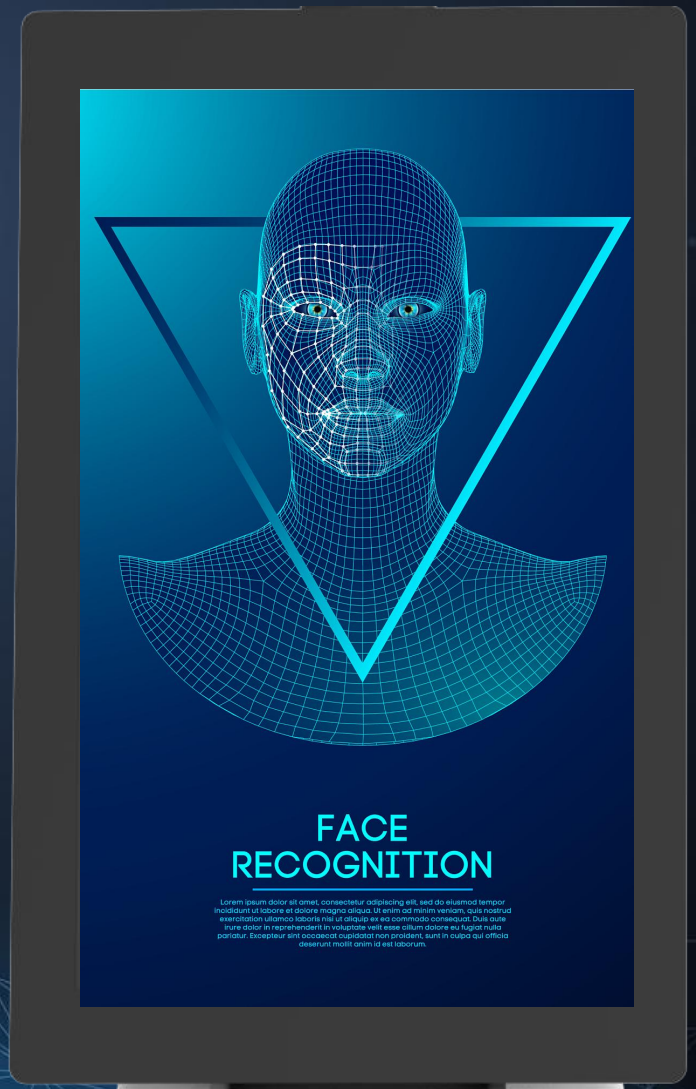
Hardware Features

Robots truly make life better

Hardware Features

Extra large screen

High-definition resolution and ultra-large size bring unprecedented shocking vision

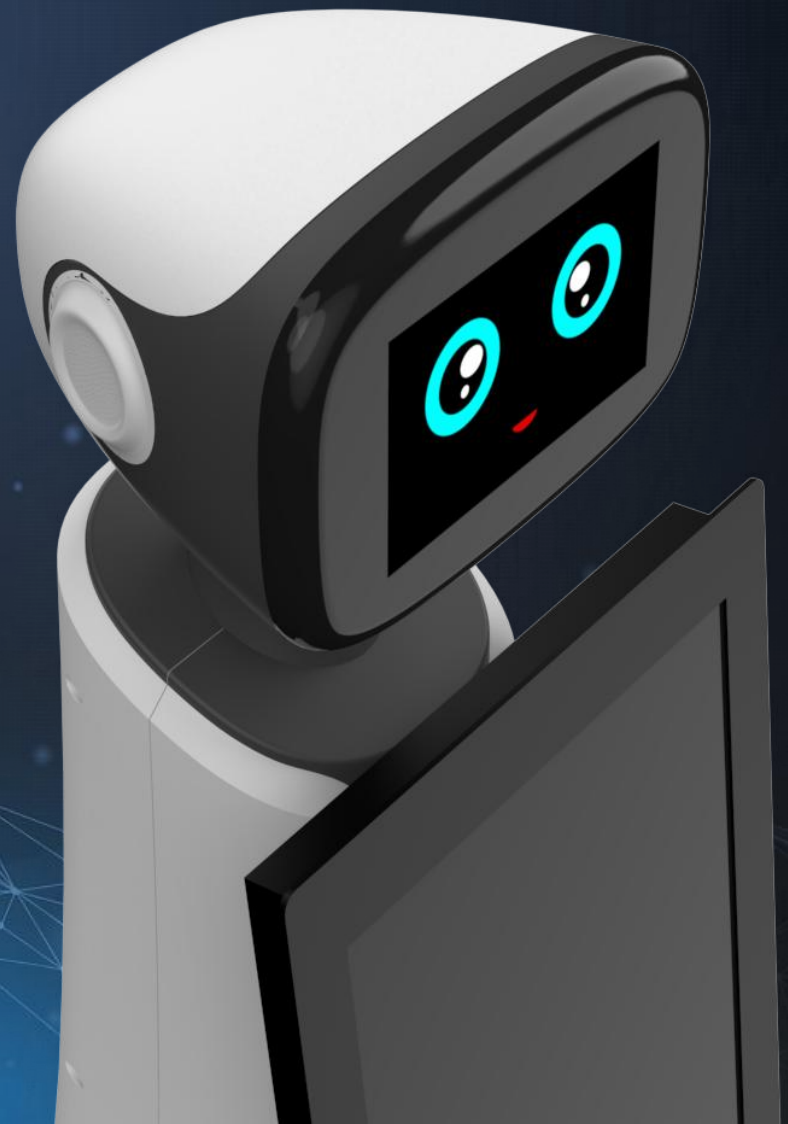


Hardware Features

Voice Interaction

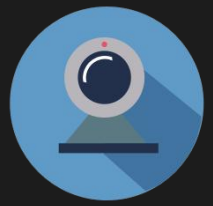
The middle area at the top of the head is the voice interaction area

6-microphone array, easy to identify even in noisy environments



Hardware Features

HD camera



5M camera, depth camera

Super clear, full view of details

Hardware Features

speaker

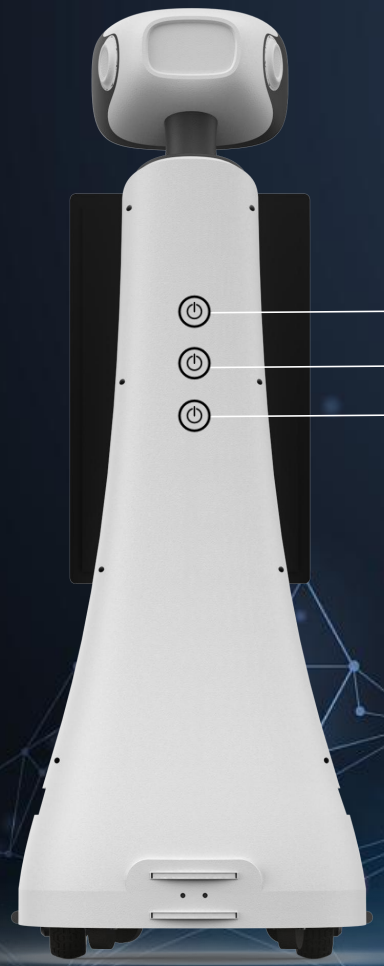
The speakers on the left and right sides provide a loud and rich sound.
The wide sound field allows you to feel as if you are there.

Hardware Features

Chassis

It is equipped with a chassis and a combination of laser radar and depth camera, and has intelligent navigation path planning and smart autonomous obstacle avoidance capabilities.

Professional tour guide robot



Emergency stop button

Power button

Brake release

The head adopts two-color stitching design

The radar opening is fully opened, and the robot can move in reverse

Manual charging port

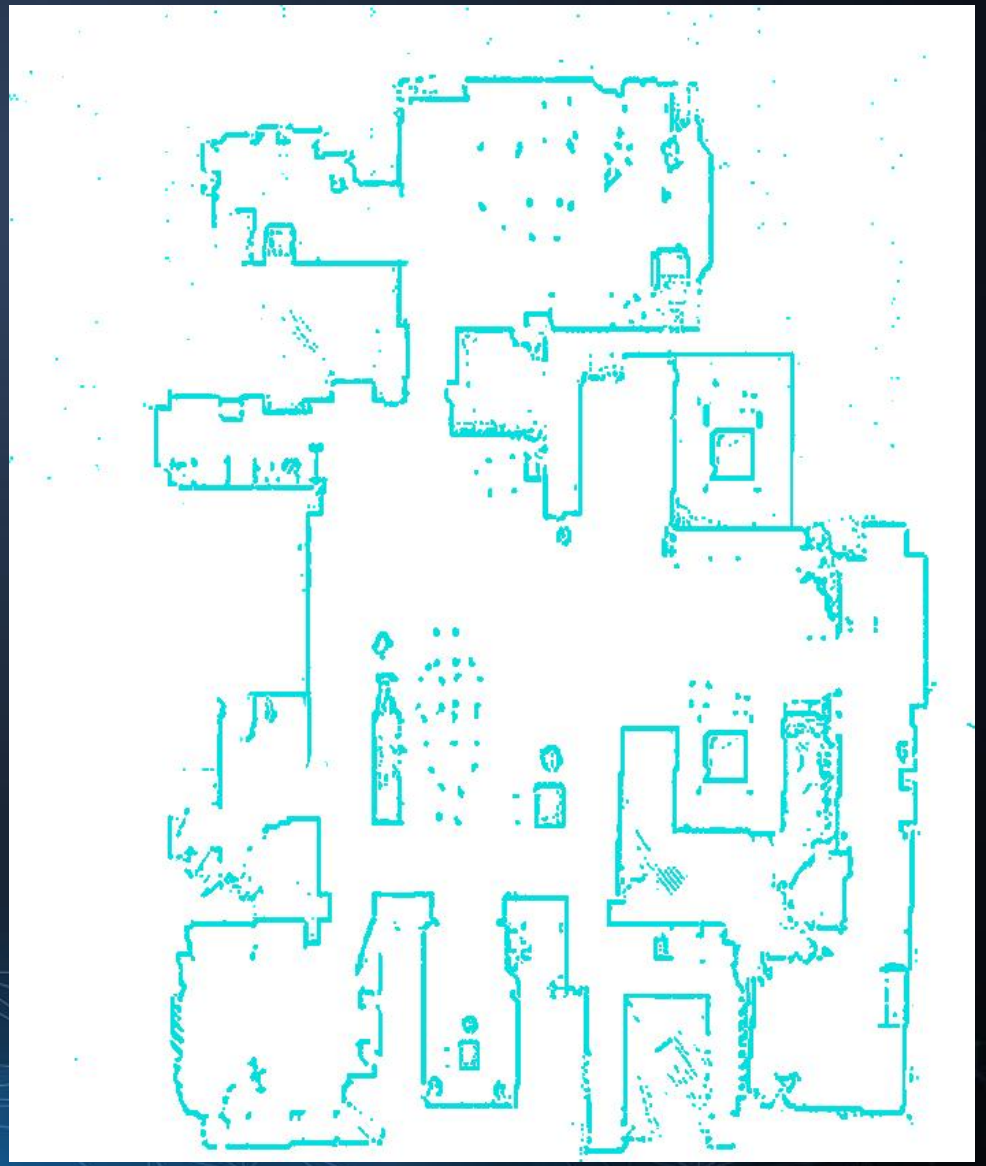
Software Features

Robots truly make life better

Software Features

Robots lead the way Smart tour guide

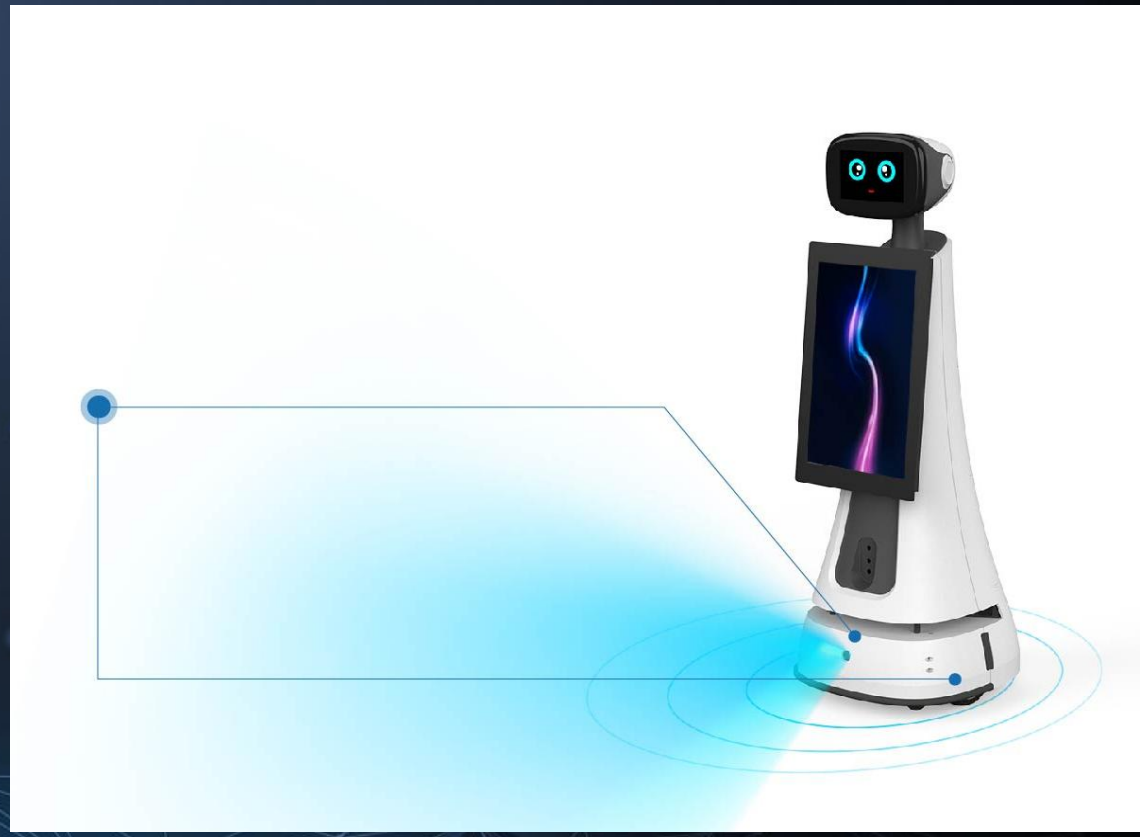
- Scanning environment map Intelligent navigation path planning
- Adopt high-precision SLAM mapping navigation algorithm



Software Features

Autonomous obstacle avoidance Ensure safety

- Thanks to the various sensors such as depth camera, lidar, ultrasonic, collision and anti-fall, Pipi can perceive environmental information in real time to ensure safe operation.



Software Features

Fully intelligent visual recognition

- Face recognition, body tracking, motion recognition

Hi, Pipi is here to show you around anytime!

Support customized voice interaction, all-round spatial sound source positioning, high-sensitivity recognition in noisy environments

Hello, my name is Pippi, and I look forward to seeing you!

Hi! Pipi has customized a tour route for you~

Do you need Pipi to accompany you on the tour?

Let’ s go to the next destination together!

Pipi will go back to recharge first, and will be back with full energy soon~

I'm going to go on patrol first, call "Pipi" if you need me!

Thank you for accompanying Pipi on the tour~

Software Features

Self-recharging cycle

- When the battery is low, the robot will automatically return to the charging station and recharge to work again.

Tour guide robot • Guest reception function

Visitors come and Pipi takes the initiative to greet them

Facial recognition to determine visitor identity

Photo collection
Face registration

Successful registration
Leading reception

Tour guide robot • Leading explanation function

STEP1

Visitors come to visit the museum

STEP2

Tour route selection

STEP3

View tour route

STEP4

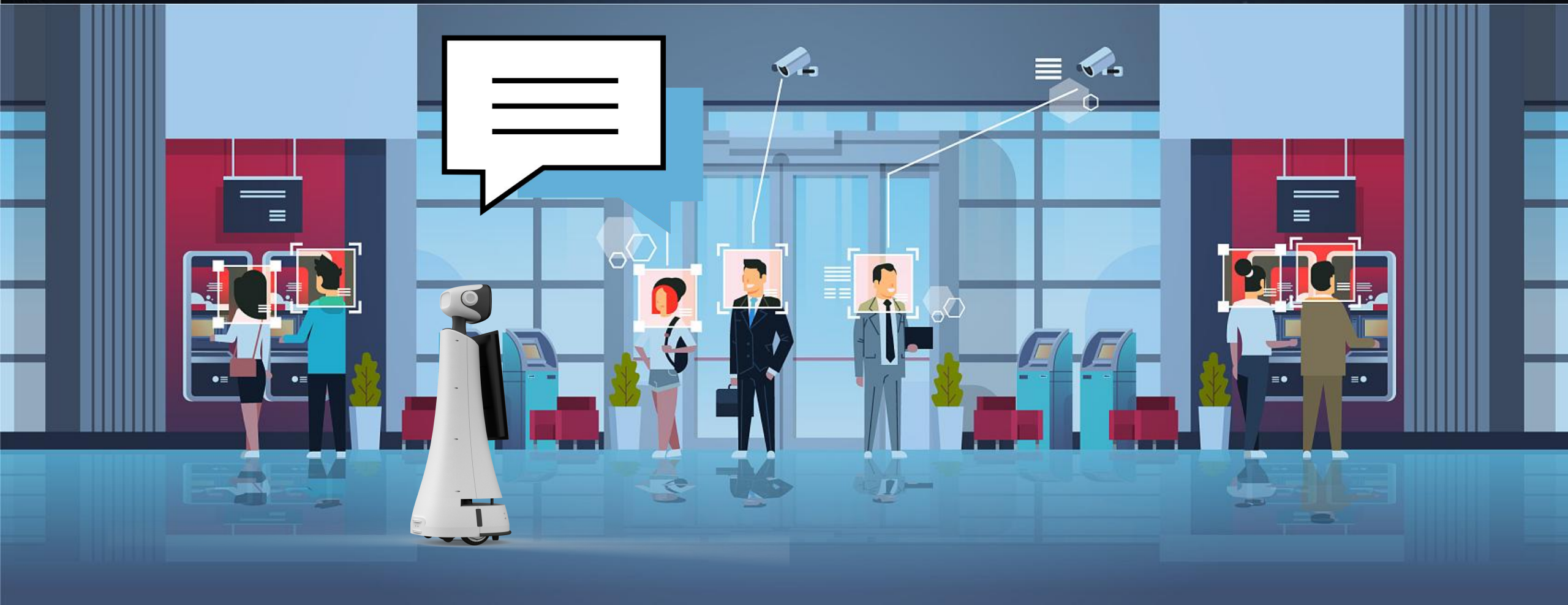
Lead to the explanation point

STEP5

Fixed-point audio explanation (pictures + video)

Tour guide robot • Smart query function

The backend can flexibly configure Q&A, support multiple forms such as text, pictures, and videos, and take effect in real time, solving the needs of customers in different industries for exclusive Q&A consultation.



Professional tour guide robot

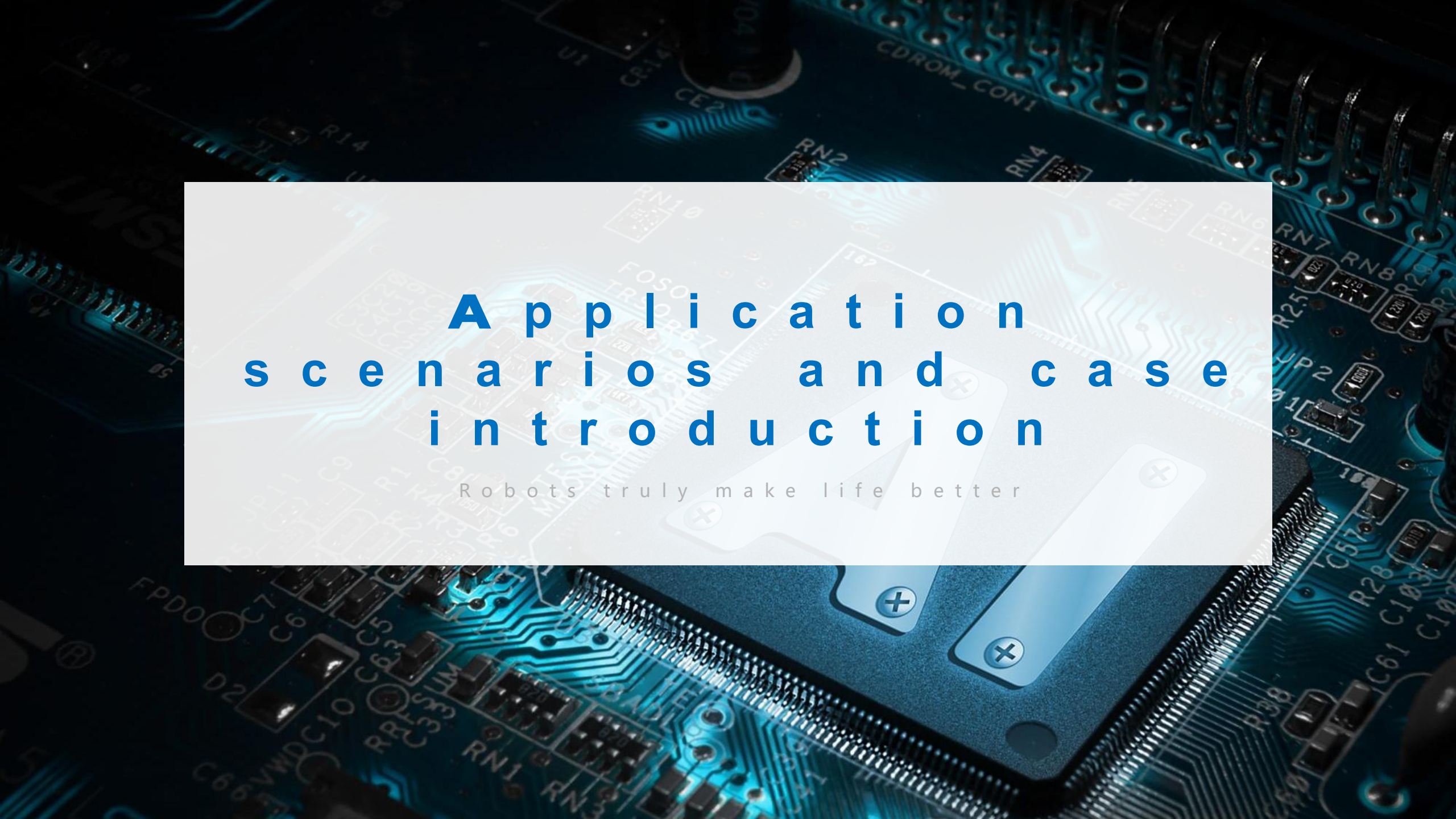
Robot Customized service

Customized appearance

1. The robot appearance can be customized to match the theme of the exhibition hall
2. Customized appearance according to customer requirements
3. The customization fee is much lower than the industry average

Customized functions

1. Customize functions for the robot according to customer requirements
2. For example, you can connect to the central control to remotely control the lights, screen, audio, etc.
3. You can customize the linkage between the robot and the interactive radar



Application scenarios and case introduction

Robots truly make life better

Application scenarios and case introduction

Pipi industry application scenario solutions

Enterprise scenario
Reception | Tour Inquiry | Video Conference

Exhibition Hall Scene
Welcoming reception | Guiding explanation | Intelligent inquiry

Shopping mall scene
Reception | Mobile Promotion | Smart Inquiry

Government Affairs
Reception |Guide |Smart Inquiry

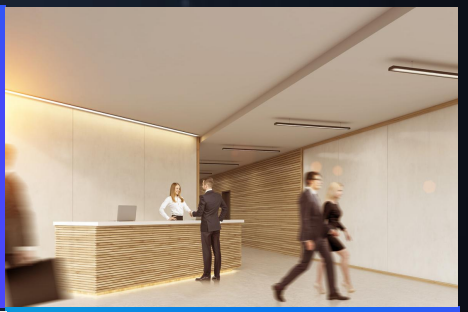
Application scenarios and case introduction

Pipi

【Enterprise scenario solutions】

Visitor reception|Guided tour|Employee management|Permission management|Remote control|Home page configuration|Advertising|Customer management|Customized Q&A

Smart Front Desk



Smart Exhibition Hall

Smart Attendance

Smart Meeting

Smart Management

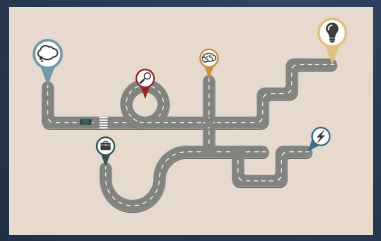
Pipi【Exhibition Hall Scene Solution】

Reception

Take the initiative to greet and ask questions
Make every guest who comes to visit feel at home

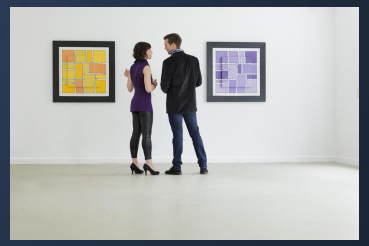
Route selection

Provide multiple route options according to the guests' visiting destination



View Directions

Check the details of the tour route and accurately guide guests to their destination after selecting it



Fixed-point explanation

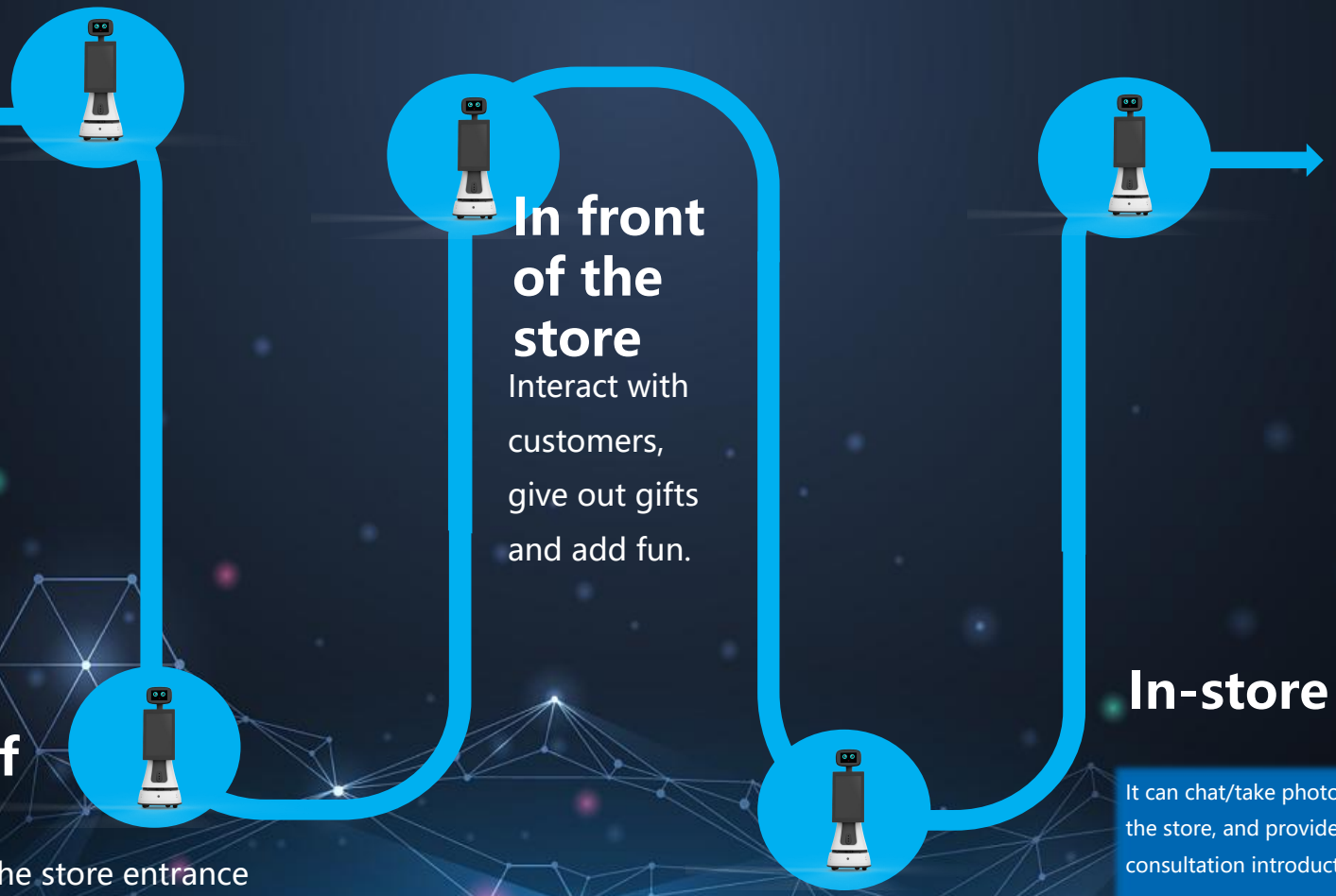
It can be integrated into the tour route, and supports flexible configuration of multiple explanation routes in the background, fixed-point broadcast, Q&A, TTS, pictures, videos and other forms

Smart Inquiry

Provide intelligent inquiry services for the exhibition hall to solve visitors' doubts at any time and provide the most considerate service for this visit

Application scenarios and case introduction

Pipi [Shopping mall store scene solution]



In the mall

The robot patrols outside the store at regular intervals along a designated route and broadcasts advertising materials. It uses facial recognition to detect users and proactively greets them.

In front of the store

Robots are placed at the store entrance to attract customers to scan codes and receive coupons, stimulating consumption in the store.

In front of the store

Interact with customers, give out gifts and add fun.

In-store

It can chat/take photos with customers in the store, and provide other intelligent consultation introductions and explanations.

In front of the store

When the customer finishes shopping, the robot will see him off and welcome him to come again next time.

Robots truly make life better