

# LUCKIBOT PLUS

AI Service Robot

Catch Eyes, Anywhere, Anytime

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Meet ORION STAR LuckiBot Plus here



**LuckiBot PLUS**  
AI Service Robot

# LuckiBot Plus OVERVIEW

The LuckiBot Plus, an AI service robot developed by OrionStar, features a 27-inch HD large screen and is powered by the self-developed RobotOS system. It offers industry customers a wide range of promotional content and marketing solicitation options. Additionally, it supports voice interaction, guiding, customizable large screen backgrounds, and cruising capabilities. This robot is the perfect tool to attract traffic, enhance smart marketing, and elevate service standards.

New

Interaction  
Experience

Unique

Dynamic  
Promotion

27-inch

HD Display  
Screen



# Hardware Features

## Interactive Screen

- 10.1-inch full HD display.

## Large Screen

- 27-inch full HD display.

## LG Batteries

- 14 H Static standby  
8 - 10 H Continuously working

## RGBD

- Navigation and obstacle avoidance with centimeter-level positioning accuracy.



## Self-Developed Mic Array

- Powerful AI voice capability, 6-Mic array, works smoothly even in environmental noises of 75dB.
- Voice recognition accuracy is up to 97%.

## Hardware Expansion Interface

- The secondary development platform creates more possibilities.

## Multi-link vehicle suspension system

- Stable operation in various difficulty environments such as uneven and greasy ground.

# 6-Mic Circular Array

Fluent Conversation in Noisy Environment



The 6-MIC microphone array has over 97% speech recognition accuracy **in** noisy environments of 75dB.

# Interactive Touch Screen

Multimodal Human-Machine Interaction

The 10.1-inch HD screen supported voice interaction, touch screen control, and provide an ultimate interactive experience.



# Qualcomm Snapdragon Octa-Core CPU

Excellent Performance | Exciting Experience

# Snapdragon 845



The world's first robot was developed on the Qualcomm platform. Qualcomm Snapdragon 845 is one of the most powerful SOC chips in Android and has industry-leading outstanding performance.

# 27-Inch HD Display Screen

Customizable display for the large screen

- The two screens 10.1-inch touch screen on the head **and** 27-inch HD large screen are linked together.

- It **support** various forms of advertising such as images and videos.



# IR Camera for Positioning

Accurate positioning at the centimeter level

- Charging Dock Positioning
- Location Spot Positioning
- Location Markers Positioning



The IR camera can be used for location markers positioning, effectively solving issues of robot from falling off.

# Hardware Expansion Interface

Creates more possibilities for scenarios

Standard  
USB-A Interface

12V Standard  
DC Interface

Network Interface  
on Motherboard

The technology supports secondary development to adapt  
to various scenarios and fulfill a wider range of needs.



# Expansionary Battery, Powerful Endurance

## Large Battery Capacity

- Large battery capacity of 25.6Ah, extended battery life up to 14 hours.

## Low Battery Recharge

- When power drops below 10%, it can automatically returns to the charger.

## Fast Charging

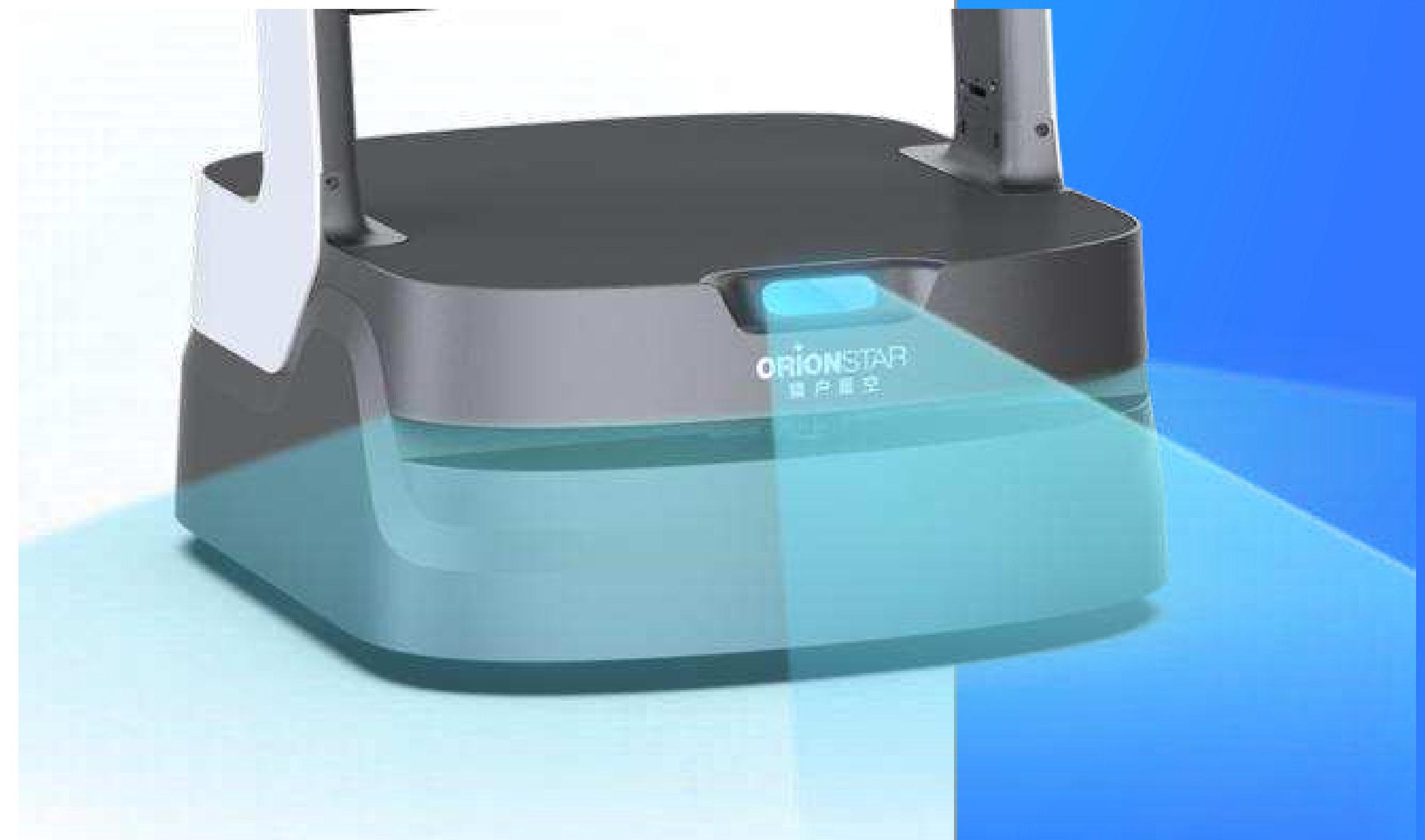
- The robot can be fully charged within 5 hours, allowing it to quickly return to work.



# Precision Navigation

Industry-leading obstacle avoidance technology

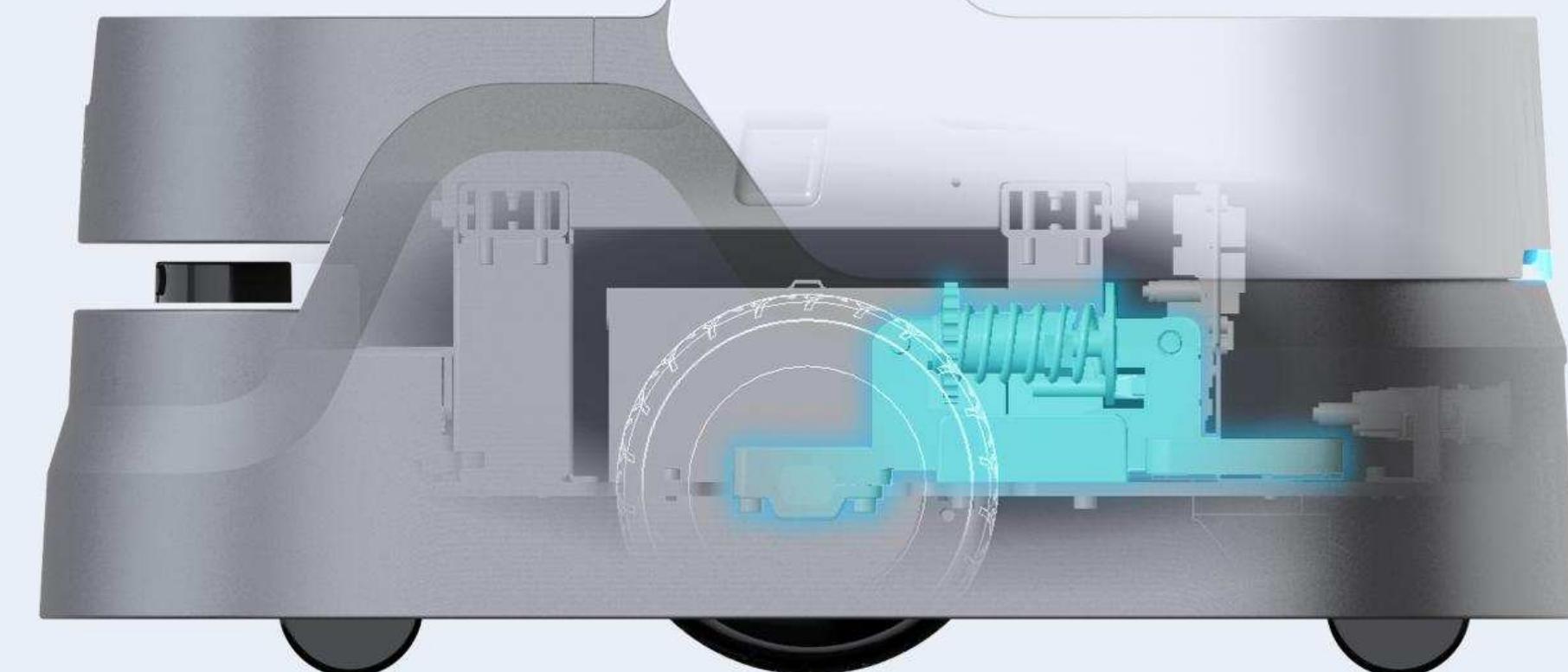
- Built-in 210° LiDAR + 3D omnidirectional obstacle avoidance sensor achieves safer operation.
- Built-in RGBD depth camera can **detect small obstacles quickly and accurately**.
- LiDAR + Vision Combination SLAM Solution Navigation Method ensures the robot can accurately detect and stop when encountering obstacles with a response time as short as 0.5 seconds.



# Solid and Stable Chassis

See Clearly, Walk Steadily

- **Multi-link vehicle suspension system**  
Auto-level independent linkage suspension system with high effectiveness to avoid bumps.
- Stable operation in various difficult environments **such as uneven and greasy ground.**



# LuckiBot Plus Key Specifications

Overall Size	530 mm x 500 mm x1320 mm
Net Weight	43 Kg
Interactive Screen	10.1-inch, 1200*1920
Large Screen	27-inch, 1080*1920
Microphone Array	6-Mic arrays, 360° sound source positioning, 5 m sound range
Hardware Platform	Qualcomm 8-core chip + 32-Bit Microchip MCU+ Depth vision sensor Hardware Platform
Battery Life	8 ~ 10 H (Continuously working), 14 H (Static standby)
Charging Time	5 H
Operation System	Android 9
Network Supports	4 G supports TDD-LTE, FDD-LTE WiFi supports 2.4 G/5 G
Navigation System	LiDAR + Visual Positioning + Visual Obstacle Avoidance + Odometer + IMU







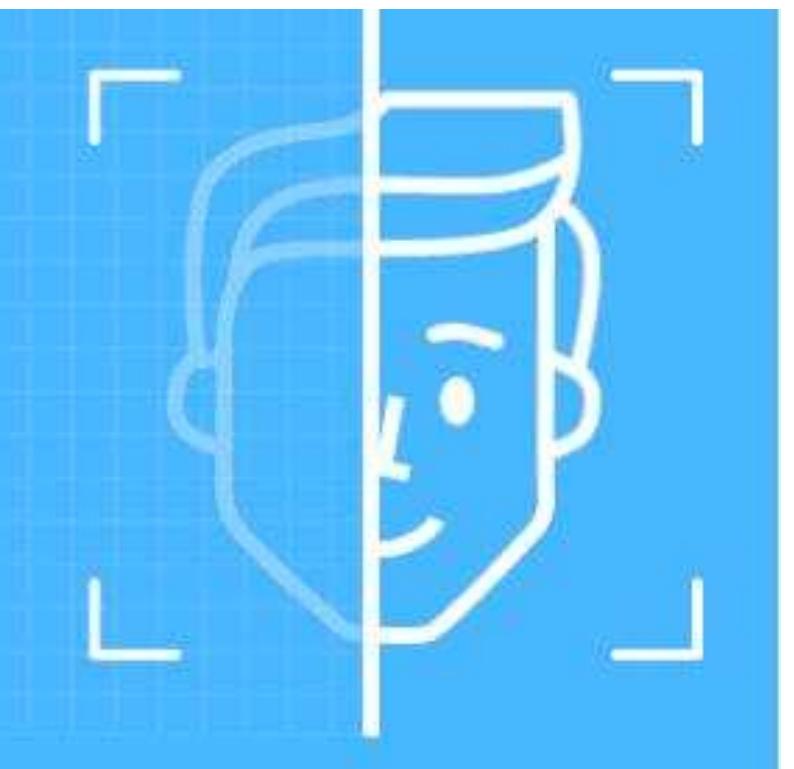
# LuckiBot Plus



# Proactively Greeting

## Act as Lobby Receptionist

- **Static welcome words can be set, facial recognition within 0.8-1.5 meters, wake up and greet proactively, greeting phrases can be customized.**
- **It can be linked to IoT devices such as access control and turnstiles through secondary development, and can handle various reception tasks such as interviews and visitors.**



# Dynamic Promotion

The most eye-catching billboard

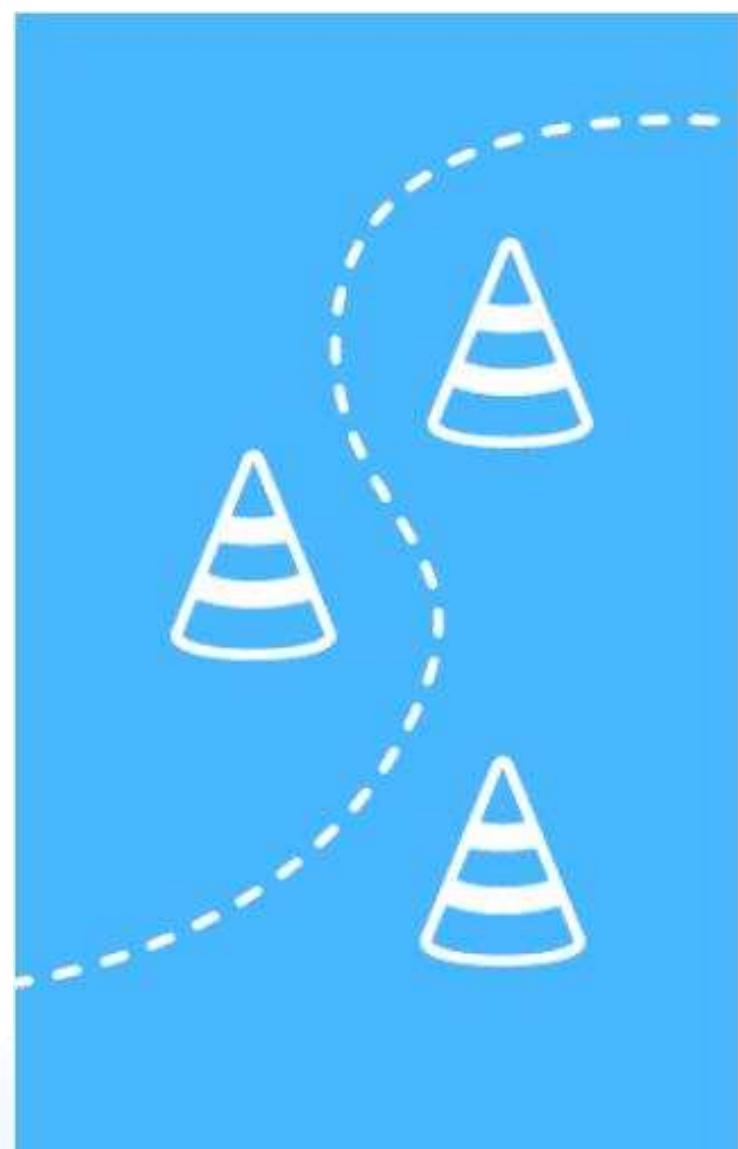
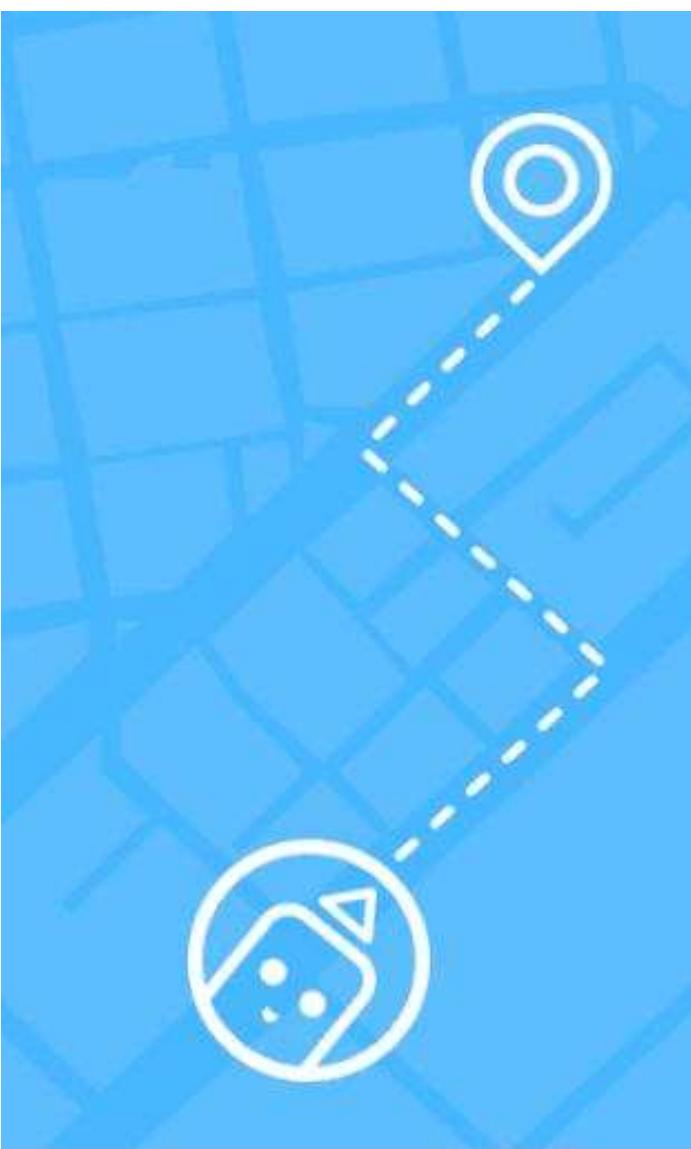
- **Recognize faces within 5 meters and actively attract customers,** support various forms of advertising such as images and videos.
- The 10.1-inch touch screen and the 27-inch HD large screen are linked together. When playing advertisements, the ad resources will be displayed synchronously on both screens.
- The robot is capable of performing a range of tasks including selling gift cards, introducing products, and distributing coupons.



# Smart Leading

## Self-navigation technology

- Intelligently recognize voice commands,  
**independently plan the optimal path, efficiently lead you the way.**
- Save your time since LuckiBot Plus will guide you to the target locations.



Intelligent Guiding

Obstacle Avoidance

# Tour Guide Service

10.1-inch screen for interaction, 27-inch screen for display

## Fixed-point broadcasting

- With a comprehensive map and explanatory content, the robot can guide visitors to the corresponding exhibit locations and broadcasting information.

## Custom route tours

- The waypoints on the map can be used to generate custom routes. The robot can follow the pre-set route to guide visitors in an orderly manner.

## Large screen linked

- The robot is equipped with a 27-inch non-touch HD screen, which can display multimedia resources from the explanatory materials on the large screen.



# Dynamic Cruise Advertising

Mobile customer acquisition tool



## Mobile advertising tool

- The **robot** utilizing dynamic cruise advertising to attract attention. It actively identifies customers and makes recommendations to engage them.

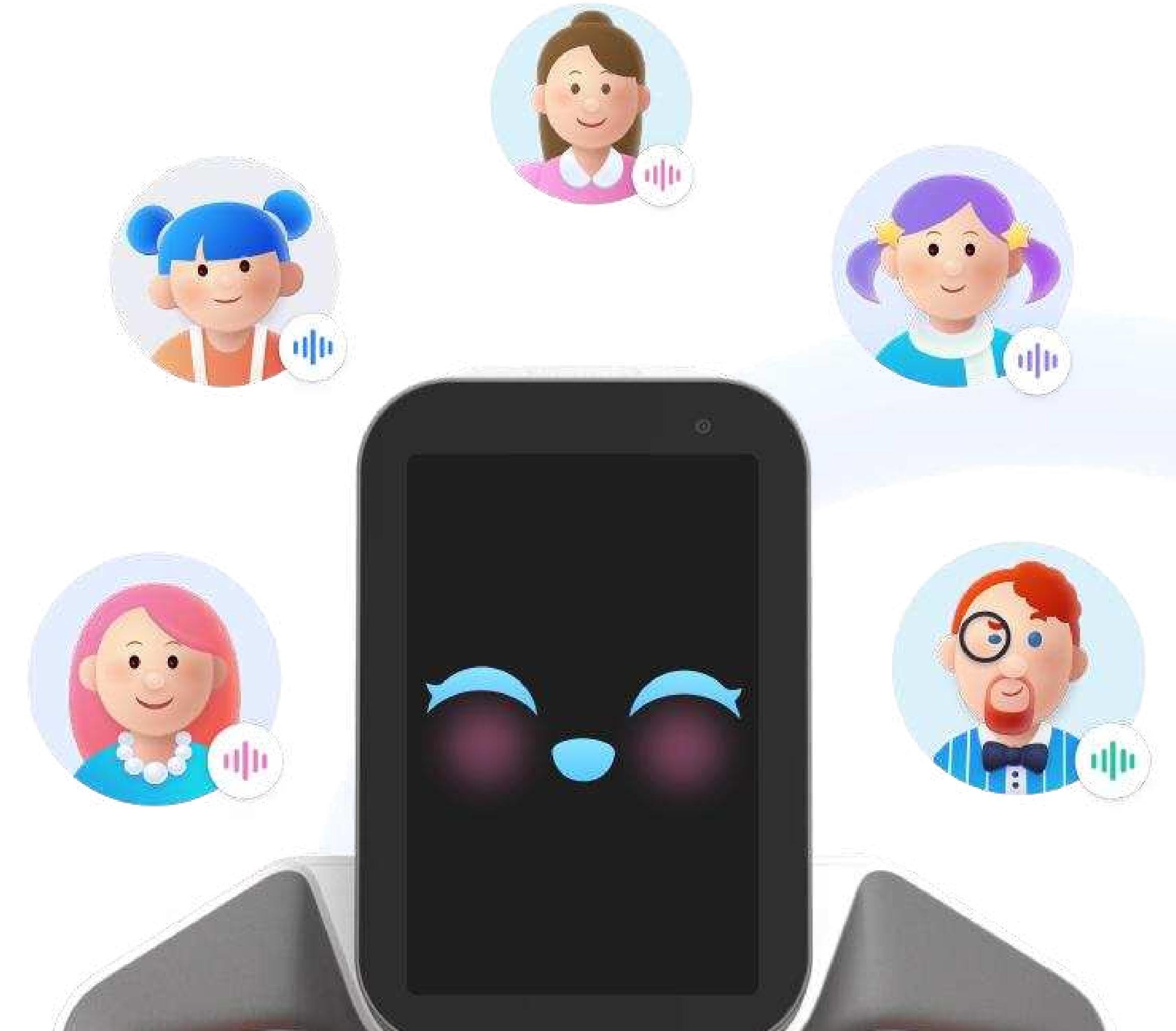
## Convenient setup

- Connect any point on the map to freely set patrol routes and patrol time periods.

# Intelligent Q&A

## Personalized scenario Chatbot

- Supported over 30 languages to meet various needs.
- Powerful AI voice capability with 5 meters effective, accurate pickup, clear and sweet tone.
- The opened ChatGPT Platform combines with scenario-based data and provides the most intelligent personalized scenario Chatbot service.



# Industry-leading Secondary Development



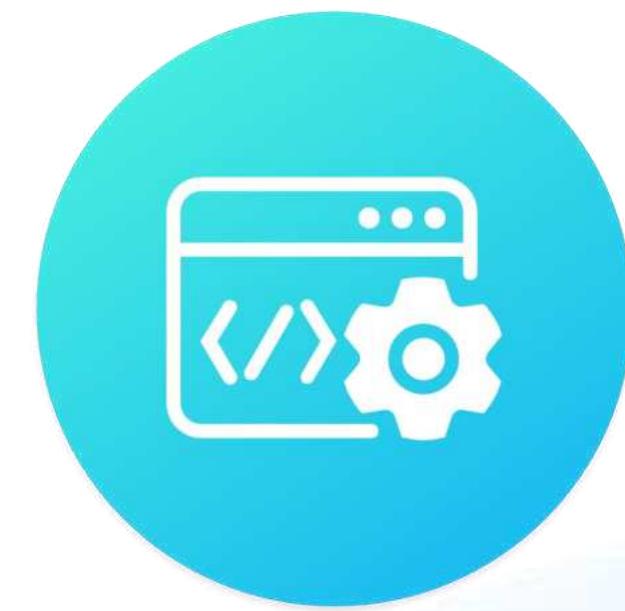
- OPEN

50 server-side API interfaces,  
23 client-side API interfaces  
**were opened.**



- EASY

Based on RobotOS, Android  
SDK made it as easy as  
mobile APP development.



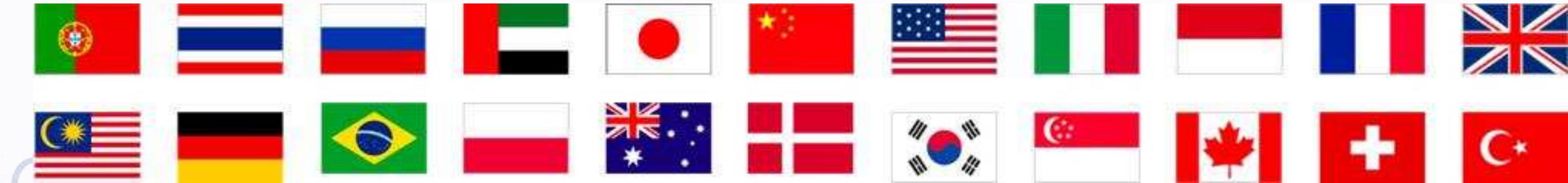
- FAST

Exclusive plug-in based extra  
development technology,  
development cost is 1/10 of the  
industry standard.

# LuckiBot Plus Supports Over 31 Languages

It Is Just Beginning...

Merhaba



Bonjour

Привет

Olá

Halo

你好

Hola

dzień dobry

Hallo

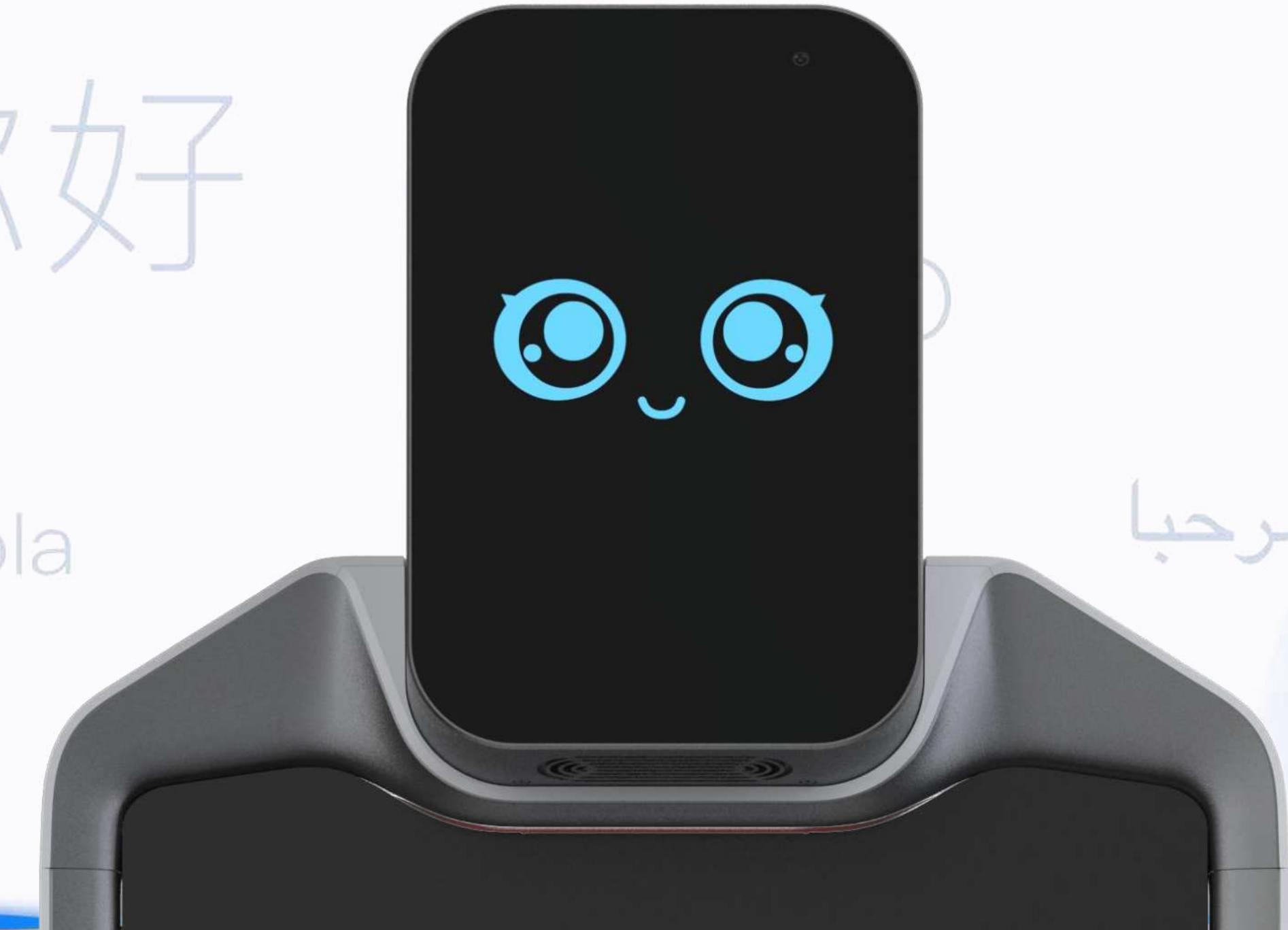
안녕하십니까

Helo

สวัสดี

مرحبا

Ciao





# All Scenarios Covered

It Is Just Beginning...



Restaurant



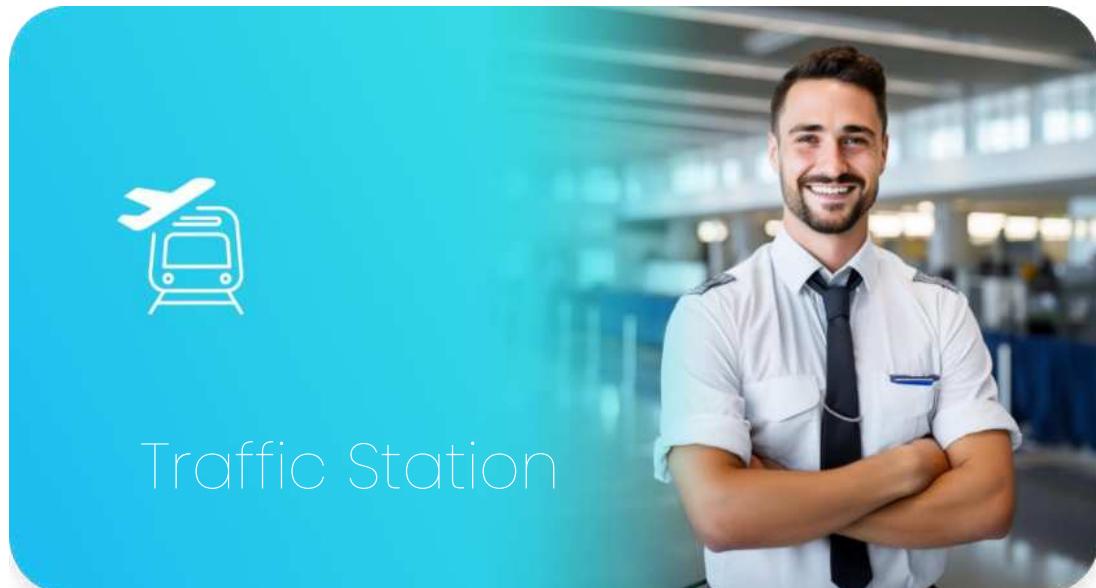
Supermarket



Bank



Hotel



Traffic Station



Club



Hospital



Office

# LuckiBot Plus – Application Cases

LuckiBot Plus has been used in more than 10 scenarios upon its launch with high popularity.



Public Institution



Traffic Station



Museum



Bank



Hospital



Supermarket