Cruzr

Intelligent Service Without Limits
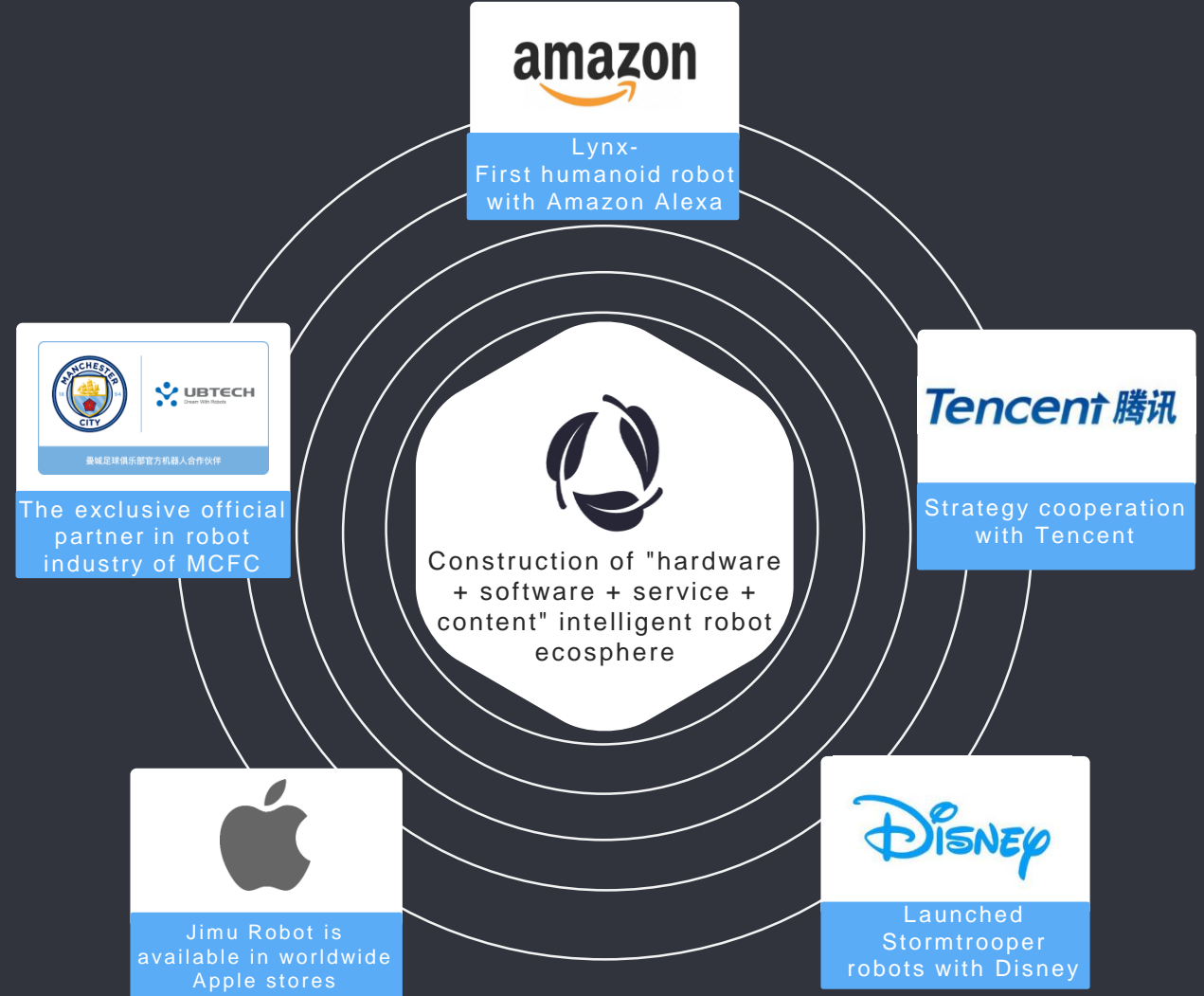
UBTECH
Dream With Robots

UBTECH
Dream With Robots

The Leading Global AI and Humanoid Robotic Company

Founded in 2012, **UBTECH ROBOTIC CORP** is a global high-tech multinational that integrates AI in intelligent humanoid robots and award-winning hardware & software products.

UBTECH is the only company in the world to provide a complete ecosystem of robots from its intelligent humanoid robot Alpha series to Lynx with Amazon, Star Wars First Order Stormtrooper, the cloud-based intelligent robot Cruzr and JIMU, the educational line of STEM robots.

amazon
Lynx-
First humanoid robot with Amazon Alexa

The exclusive official partner in robot industry of MCFC

Tencent 腾讯
Strategy cooperation with Tencent

Construction of "hardware + software + service + content" intelligent robot ecosphere

Jimu Robot is available in worldwide Apple stores

Disney
Launched Stormtrooper robots with Disney

The Leading AI Company

- 40+ academicians and top doctors in the field of humanoid robots and AI
- 500+ employees in R&D team; 250+ global patents in the humanoid robotic field
- Our key AI technology: machine vision / gait algorithm / motion control / large data platform / cloud computing
- A joint laboratory at Tsinghua University, a joint laboratory at University of Sydney, Beijing research and Sydney Research Institute, and 40+ academic papers published in top academic journals globally

Patents

Patent of robot rudder

Patent of modular digital rudder of robot

Patent of control algorithm for robot digital device

Patent of Visual control for robot 3D

Patent of robot action editing system

One-stop Solution

UBTECH provides a complete ONE-STOP solution for clients. UBTECH has an automatic production line for large-scale robots, which covers everything from warehousing, logistics, whole assembly, testing and the entire process of packaging and shipping. The production line is equipped with comprehensive quality control and excellent after-sale maintenance.

R&D Center Solution Specialist

Assembly & Maintenance

Automatic Production Line

Quality Control & Delivery

Cruzr Automatic Manufactory

UBTECH
Dream With Robots

Location: KunMingChina

Production Capacity: 30000 units per year

5 Product Lines：SPS material sorting line + arm assembly line + chassis assembly line + final assembly line + test line

Size: 4000 square meters

It uses the pulling production method that can satisfy customer requirements at the lowest cost while keeping the minimum inventory.

It uses full-process information management system which includes MES system and Andon system.

Global Network

- **Head Quarter: Shenzhen, China**
- **China Branch: Kunming, Yunnan Province (Factory)**
- **America Branch: Los Angeles, Silicon Valley (R&D Lab)**
- **Key Market: Europe, America, Asia-Pacific, Australia**
- **Global Strategic Partners: 100+**

![cruzr logo]
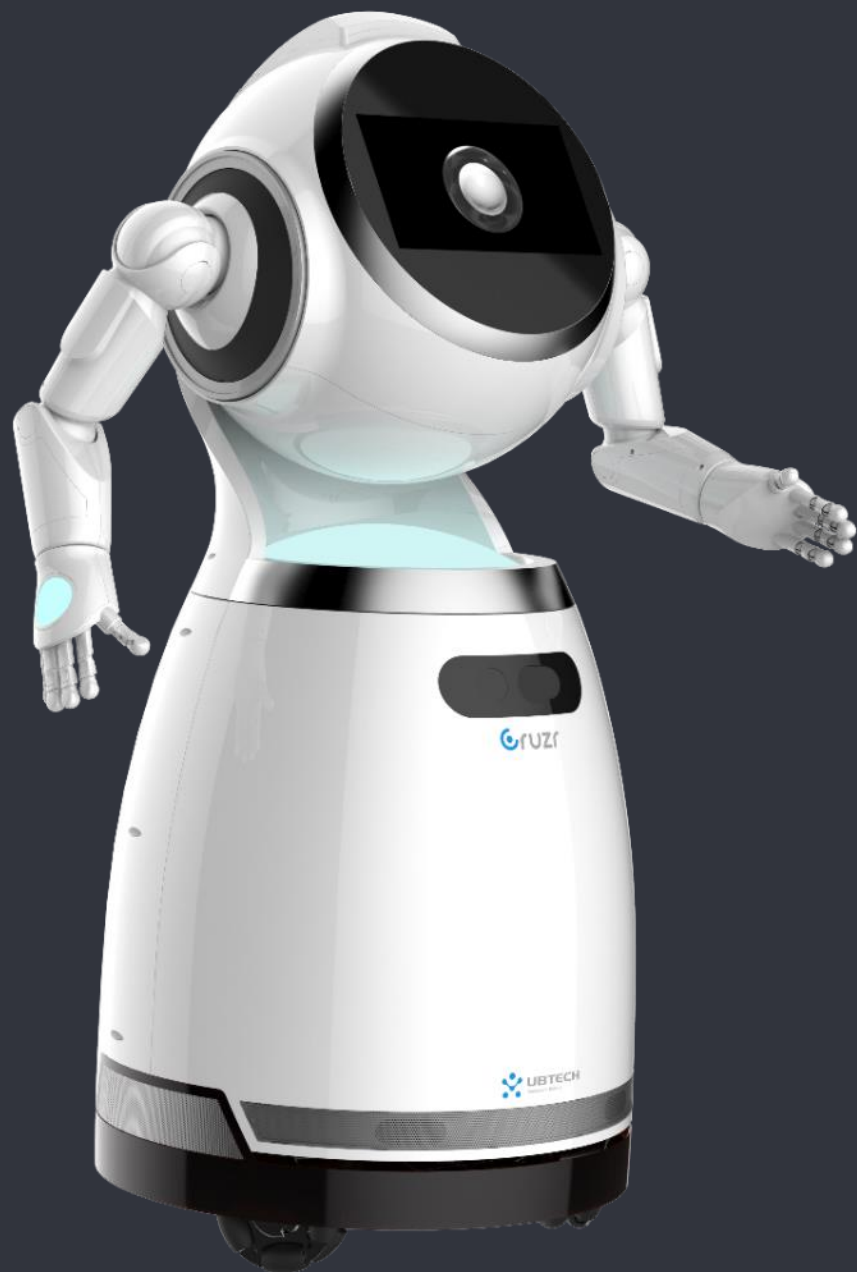
Customized, Cloud-based, Intelligent Humanoid Service Robot

Cruzr provides a new generation with service applications for a variety of industries and domestic environments.

- ✓ A New Era of Robotic Intelligent Service
- ✓ Cloud-based robotic OS
- ✓ Open API
- ✓ Customized service
- ✓ One-stop solution

Key Features

ruzr

Flexible Arms 360° Movement

Proprietary SLAM Technology

Multimodal Interaction

Facial Recognition

Video Conferencing

Safe and Secure Database

Big Data Analysis and Management

Centralized Control System

Customizable Service

Automatic Docking and Recharging

Humanoid Design, Flexible Arms and 360° Movements

cruzr

As Flexible as Human Movements

With 17 servos, Cruzr moves like a human. With its Four-Layer Protection System Cruzr is capable of shaking hands, greeting visitors, moving around, dancing and hugging.

360° Movements

Cruzr uses abrasion resistant and quiet omni-directional wheels to move smoothly and stable, while being able to turn in any direction instantly.

Proprietary SLAM Technology

cruzr

U-SLAM is an abbreviation of UBTECH SLAM (simultaneous localization and mapping), which uses real-time positioning and mapping to avoid obstacles.

Real-time positioning and mapping

6 major sensors that are distributed in a 360° annular sensory array

- Adapt to route environments
- Arrive at any location with precision

Multi-modal Interaction

Introducing Multi-modal Interaction
Multi-modal interaction is an interaction with voice, action, text, expression, and other modes of communications.

More Expressive, More Like a Human
Cruzr with "multimodal interaction" integrates various interaction modes. The multi-modal synergies and coordination make the interaction more fluid and more humanlike, which greatly enhances the user experience.
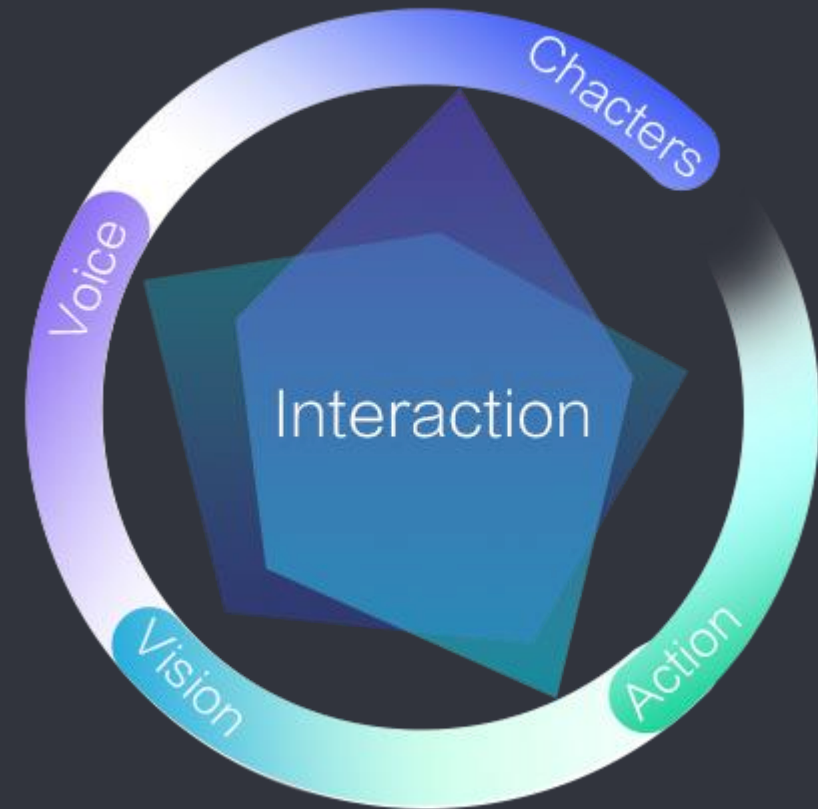
Facial Recognition

cruzr

Recognize you accurately and respond accordingly

98% high recognition rate. It identifies faces in milliseconds. Cruzr is an open source platform which lets you implement 3rd party resources for emotion detection, gender, age, ethnicity recognition, etc.
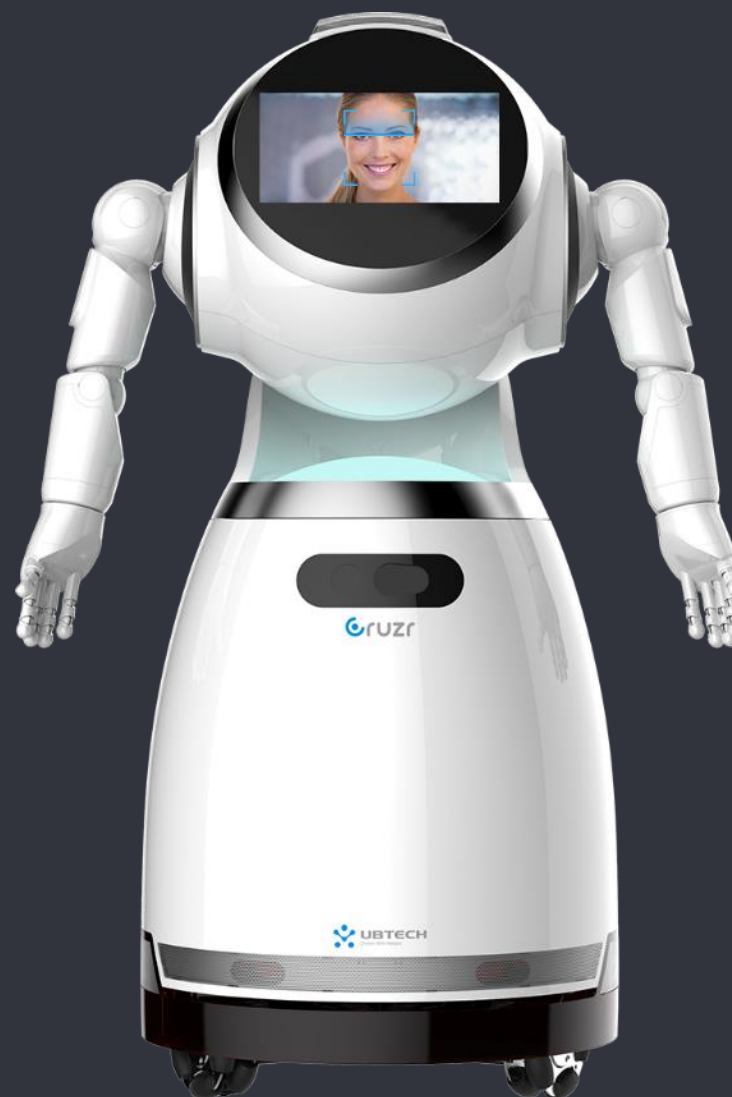
U-Meeting Video Call System

U-Meeting provides voice and video functions that supports cloud computing and uses a high-definition audio and video to ensure smooth transmission.

Video conferencing and video-based servicing

High-definition audio and video codec

Secure video data

- Clearer

- Faster

- Safer

Big Data Analysis and Management

Data acquisition, storage, and analysis

Discover effective information to obtain better business value

- High-efficiency acquisition
- Security storage
- Intelligent analysis

Superior, Safe and Secure
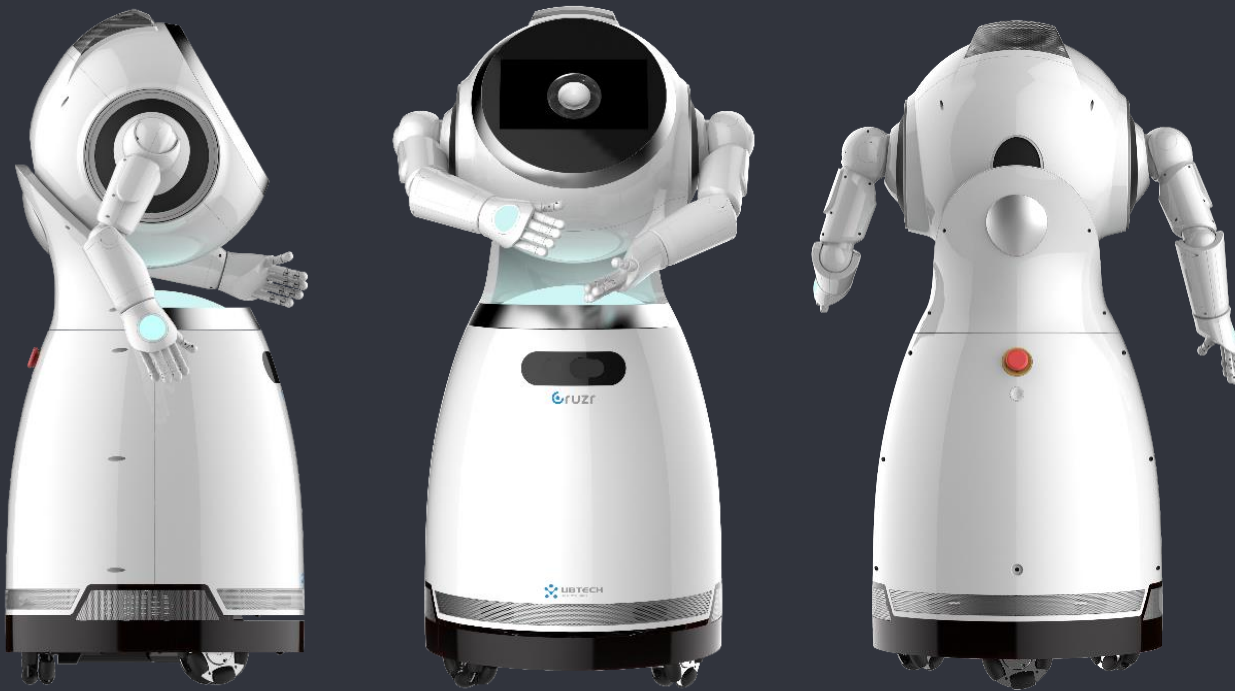
cruzr

Superior & Aesthetic Design
Its minimalist, functional and abstract exterior design is a visual feast in aesthetics for users.

Hypersensitive Arms for Secure
Cruzr's arms, with extensive degree of freedom and piezoelectric film sensor, enable it instantly sense any obstacles and automatically stop all movements, thus ensuring its arms and the users not harmed, giving users a safety experience.

Centralized Control System

Multi-machine centralized control system （managing maps,
real-time motion control, and video playback）

Security monitoring

Advertising services

- Convenient multi-machine centralized control system

- Advanced intelligent way of patrol (Self-driven + pre-set

  route operation)

- Advertisement push

Customizable Service

cruzr

Based on the open SDK interfaces for body movements, base actions, expressions, voice, UI interface, and facial recognition that are offered in the Cruzr's robot platform, companies can customize their own products according to their own specific application scenarios.

SDK

Provide SDK

Open API, customize your own robot

One-stop solution
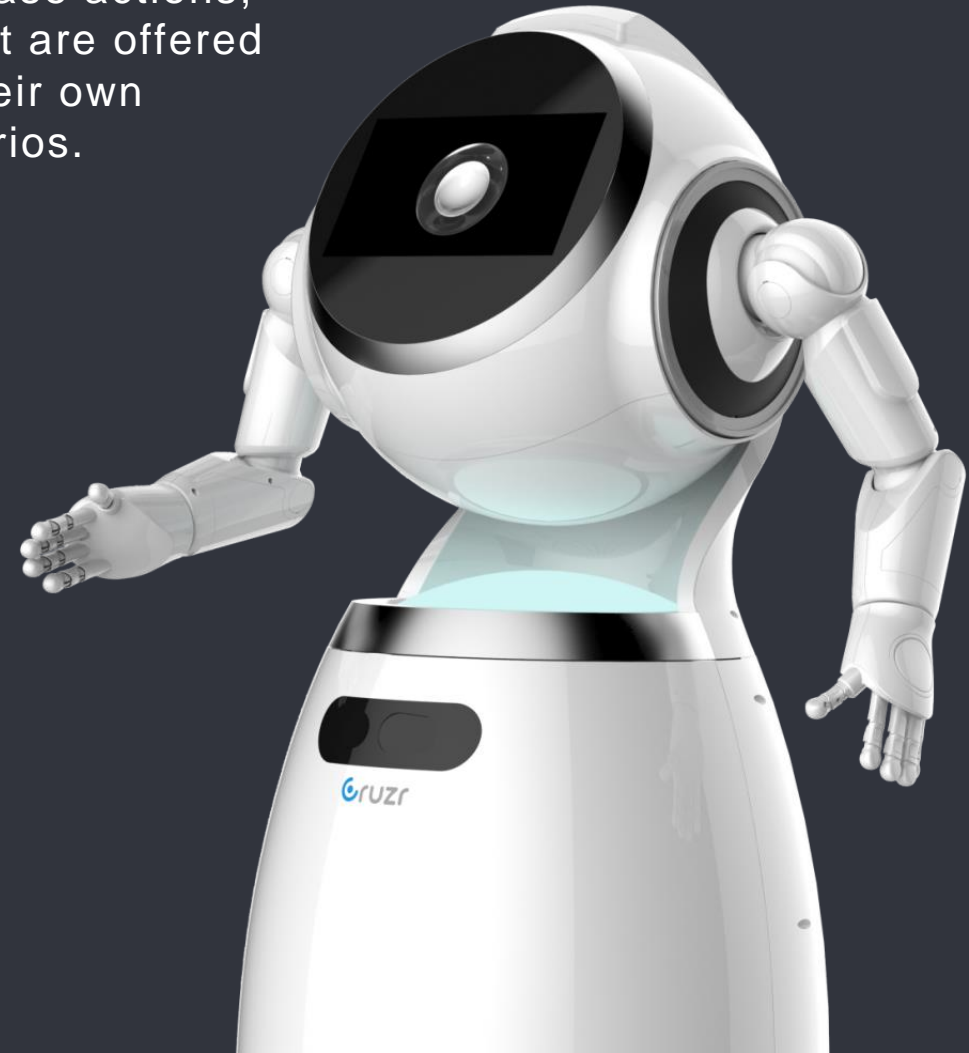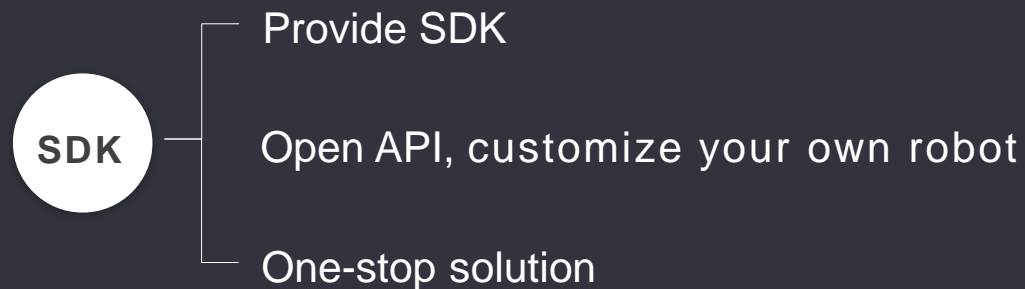
Automatic Recharging

Stable and accurate charging stock location, low power consuming.

Multiple charging methods: Directive recharging, Pre-set recharging,

Automatic recharging.

Automatically return to its self-recharging dock

8 hours of active use (24hrs standby)
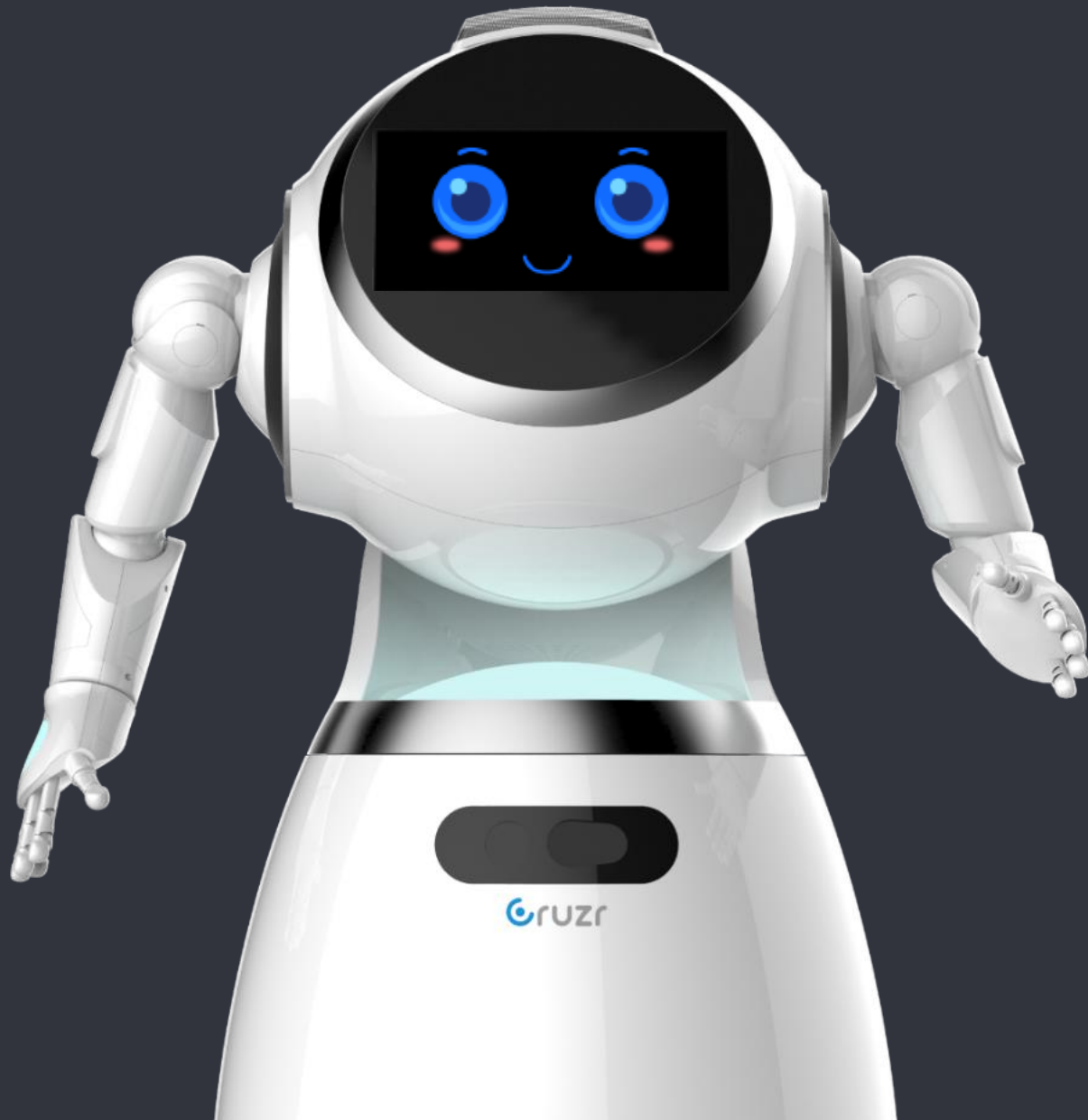
Hidden conductive wheeling charging technology

Cruzr

Product Parameters

13MP HD Camera

11.6-inch
Touch Screen

Status LED

Sonar and IR
Sensors

Lidar

6+0 MIC Array
(Covering 3-5 Meters)

Camera with Depth
Perception

3-inch Speaker

Omni-wheel
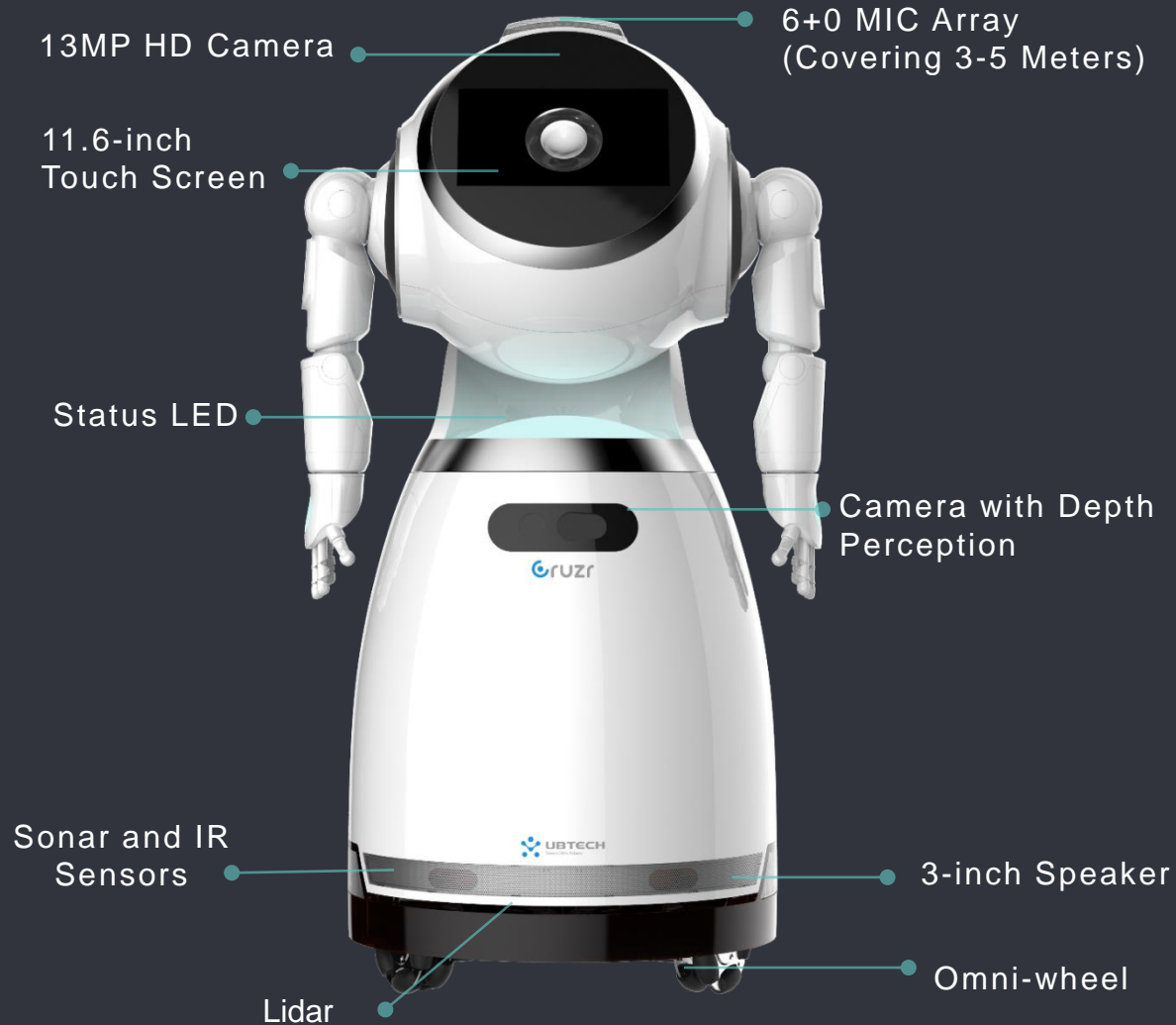
Item	Specification
Size	1195(H)*521(W)*516(D)mm
Weight	45KG
Color	White + Silver
Materials	Plastics, Metal
Battery	20Ah 24V
Screen	11.6-inch touch screen
Camera	13MP HD, 1080P Video
Speaker	Two-channel stereo, Unit:3 inch*2 ; Output power: 6W*2;
Sensors	6+0 MIC array in head
	1 Depth-perception camera in waist
	1 Lidar, 6 Sonar sensors, 12 IR sensors, 9-axis IMU in chassis
DoF	1 DoF head
	5*2 DoF (L/R) arms
	1*2 DoF (L/R) hands
	1 DoF waist
	3 Omni-wheels
OS	Android & ROS
Velocity	Normal speed: 0.3m/s; Highest speed: 1m/s
Networking	Wi-Fi 2.4G/5G
Accessories	1 Recharging dock, 1 power adapter, 1 user manual

Cruzr

UBTECH

Application Scenarios

Banks

Hotels

Hospitals

Schools

Automobile Dealerships

Shopping Malls/ Retail Stores

Railway/subway Stations

Airport Terminals

Museums/ Government Offices

cruzr
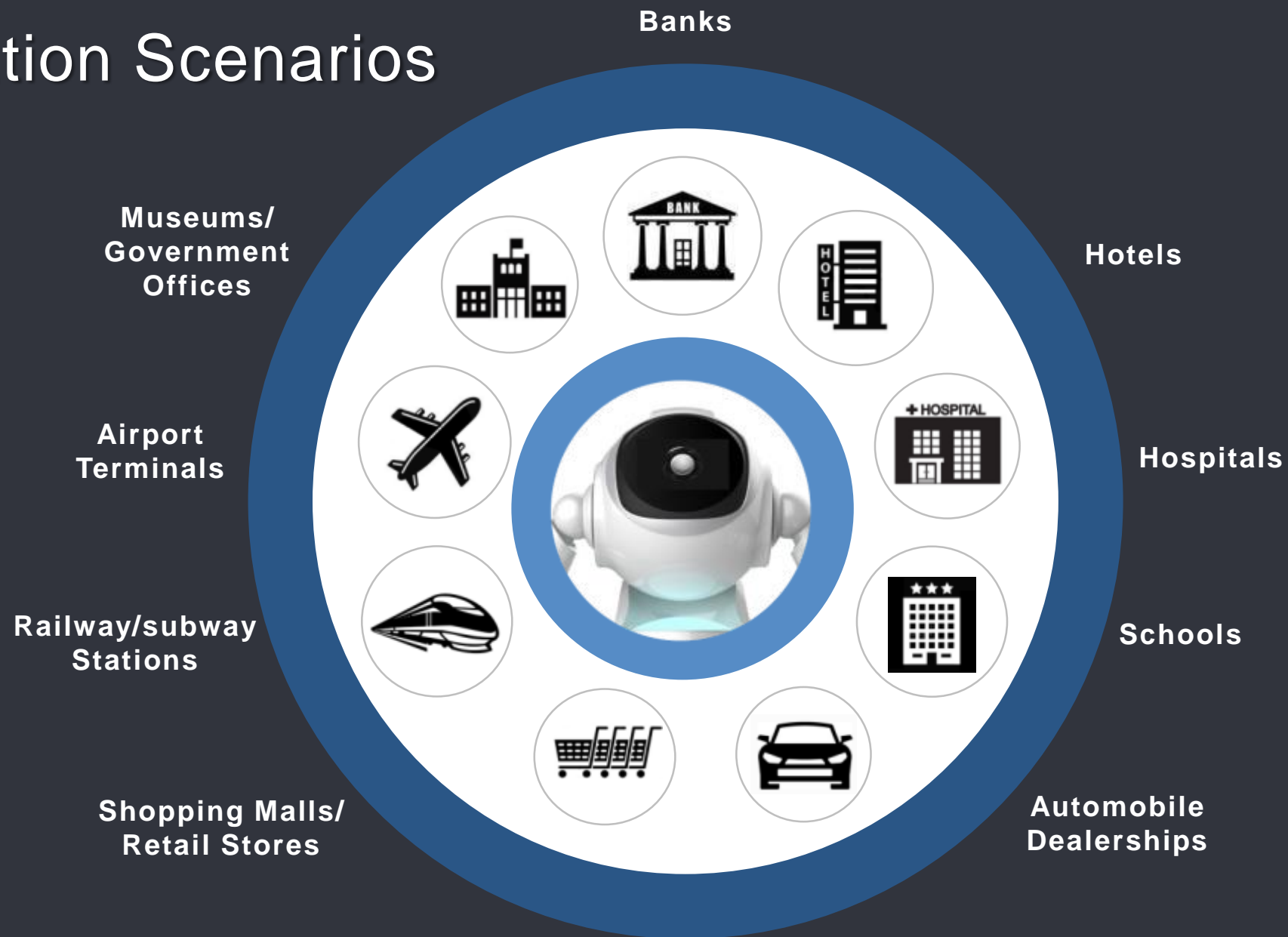
Retail

The sales assistant

🎁 Provide detailed product information and take orders

💬 Greet, collect information and troubleshoot enquiries
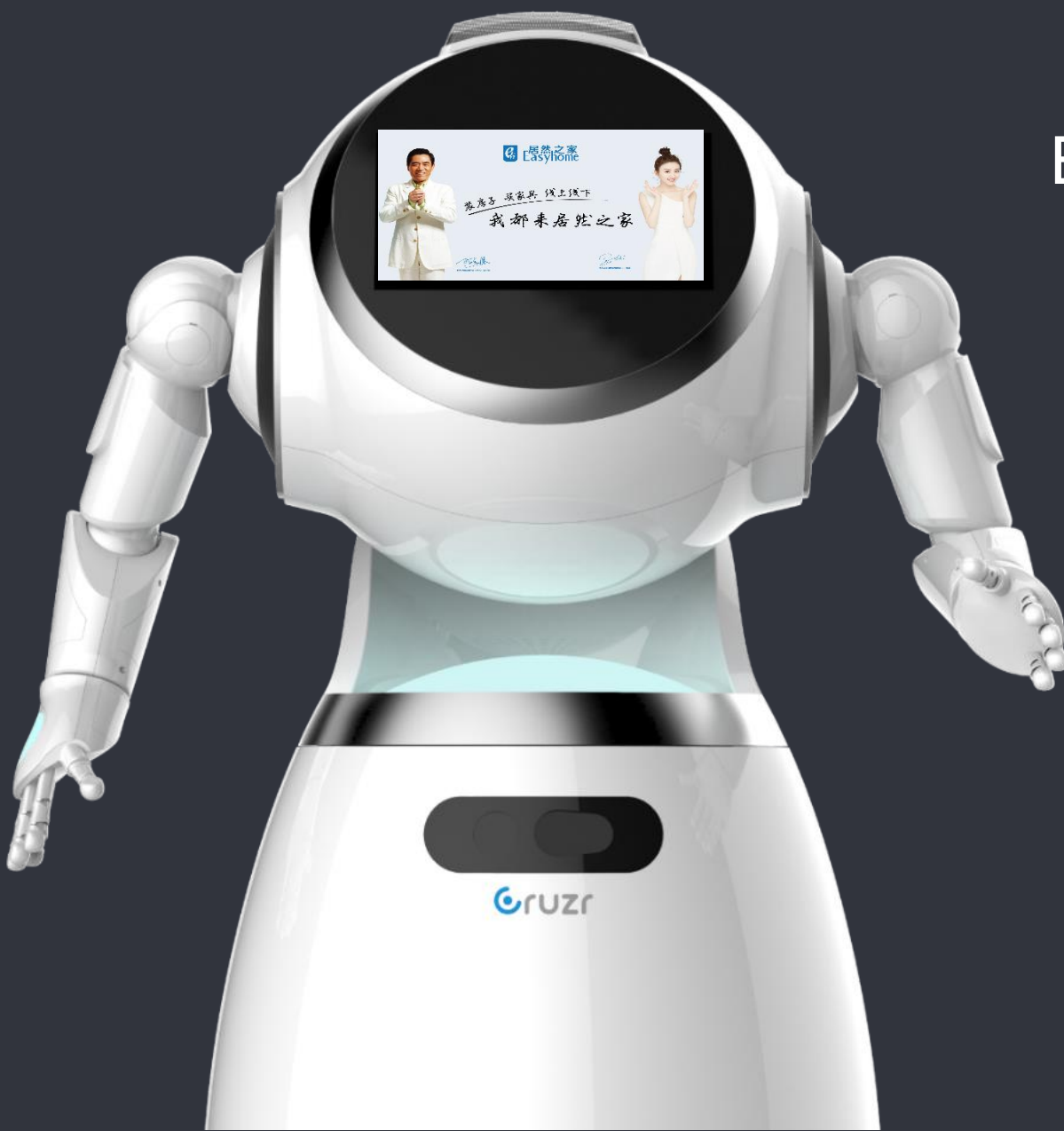
🔍 Access account details and recommend sales representatives

Major benefits for retail and marketing

✓ Effective and relevant
retail services

More efficient
retail customer service

Handles customer sales
and complaints quicker

Provide first level support
and customer issue resolution

Helps customers connect
faster, better and smarter

CRUZr

Easyhome Furniture Retail Store Case

Function Introduction

- Drive Traffics

- Brands/Shops Introduction

- Voice Interaction

- Intellectual Guidance

- Big Data Management and Analysis

Cruzr

Provide unique entertainment, play videos and dispaly photos

Answear questions about products

Greet, collect information and troubleshoot enquiries

CRUZR

雇佣两千机器人　　打造智能新零售
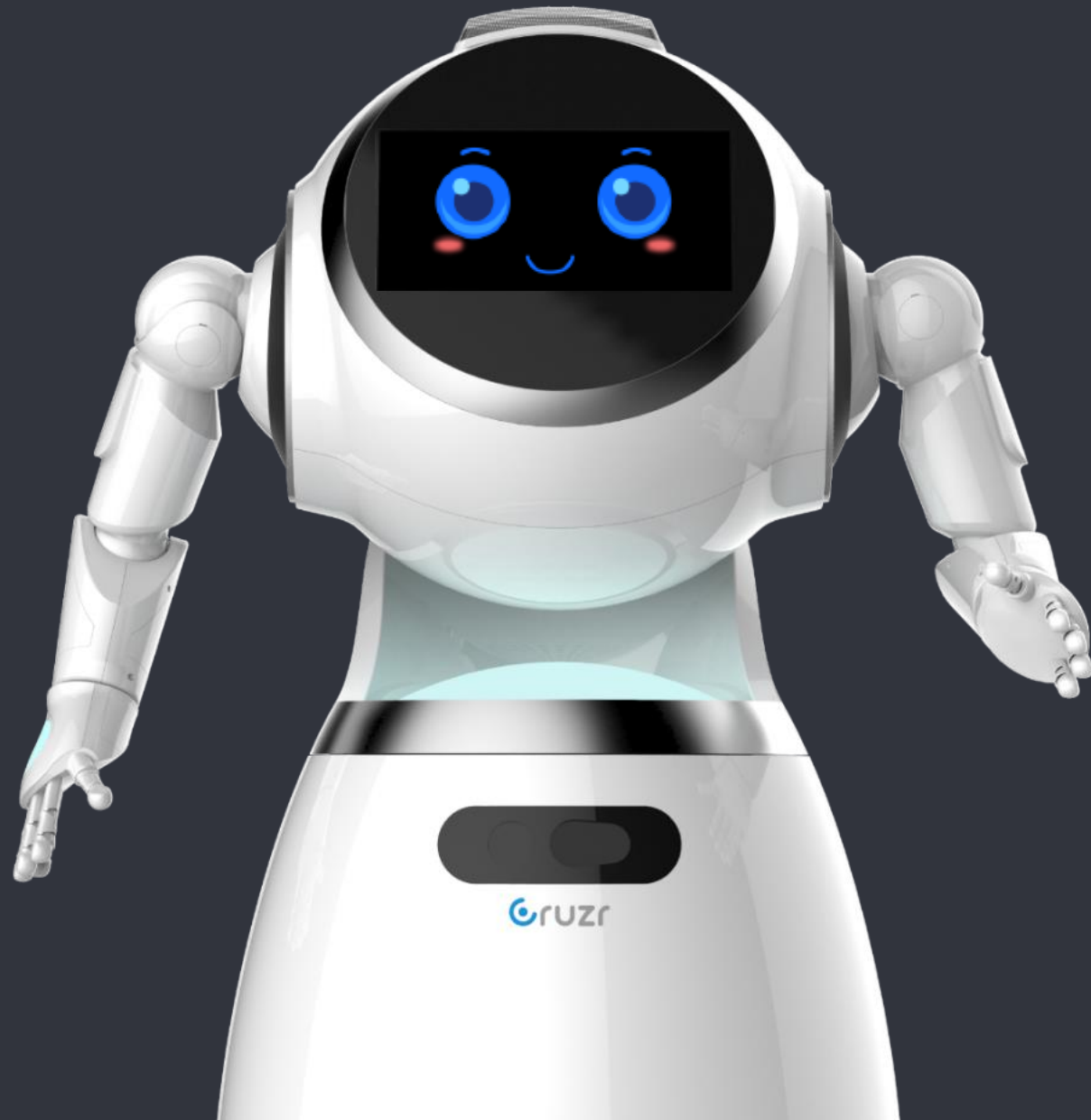
居然之家"百城千店"机器人上工仪式

居然之家 Easyhome

Provide customers guidance & direction to different shops

VIP customers have access to query their individual consumption information

Increase brand awareness and drive traffics to the stores

Enterprise

Robotic virtual presence

- Supports first responders and emergency scenarios

- Enables customers to manipulate the real world from remote location

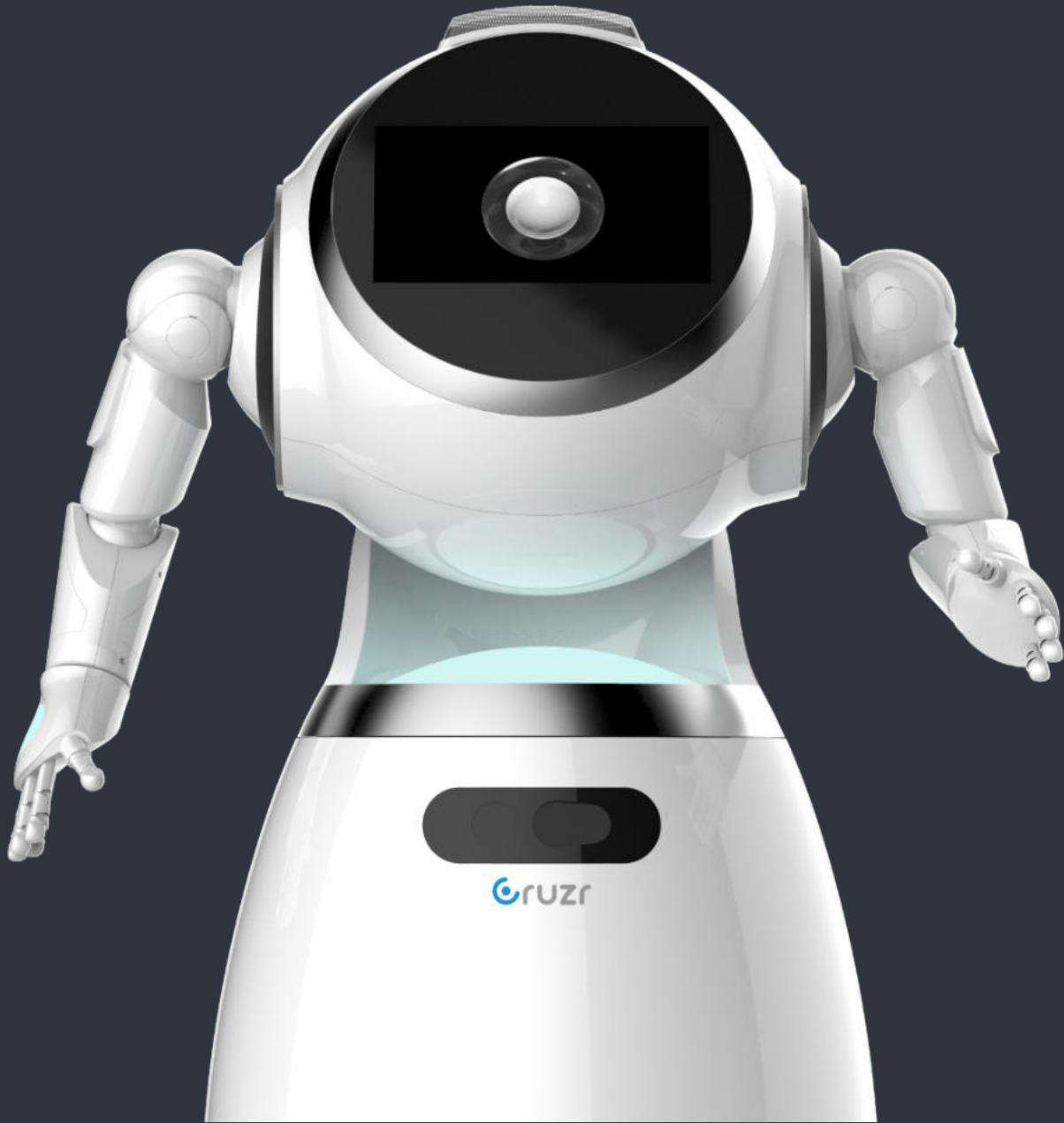- See, hear, speak and navigate through virtual reality safely

The concierge

![icon] Manages customer flows and books appointments

![icon] Calls/texts customers when it is time

A new look for your brand

- Acts as a concierge, MC or facilitator at major events

- Answers questions about the event

- Accompanies guests to seats

- Introduces guest speakers

Cruzr

Major benefits for corporate communications

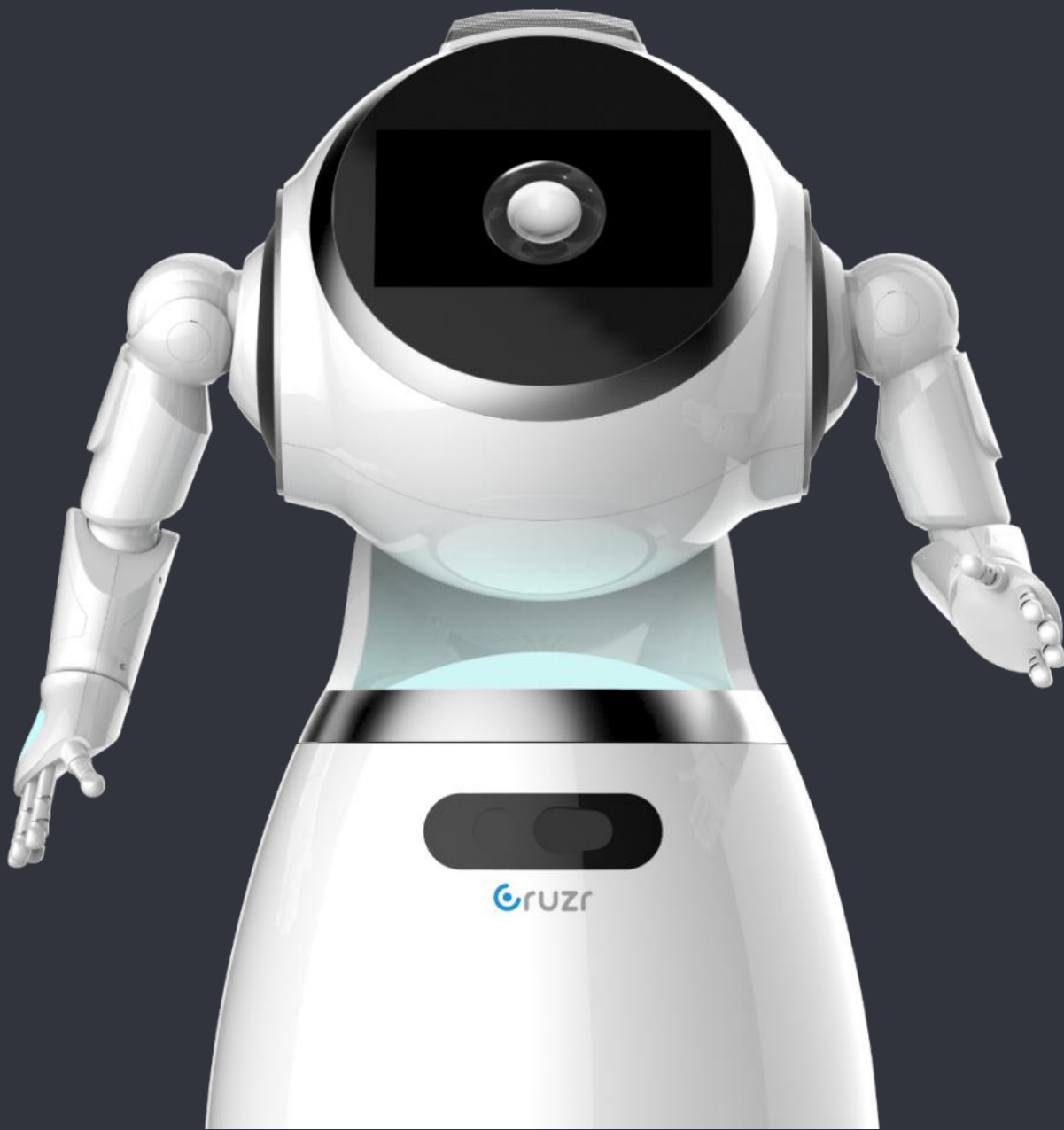🔍 Increased brand awareness and media coverage

👥 Innovative customer focussed communications

♡ Provides unique entertainment

Australia Tele-company Telstra Case

Function Introduction

- Drive Traffics

- Brand/Product Introduction

- Voice Interaction & Inquiry

- Able to process payments

A well appointed ambassador

Acts as a roving sales and marketing ambassador between office floors

Answers specific questions, play videos, display photos

Provides details to upcoming events relating to innovation and technology and allows customers to register

BYD Automobile Dealership Case

Function Introduction

- Automobile Introduction

- Voice Interaction and Data Collection

- Entertainment

- Automobile Video Showcase

- Public Account Promotion

- Membership Registration

ruzr

Attract customers by shaking hands, greeting visitors, and graceful dancing

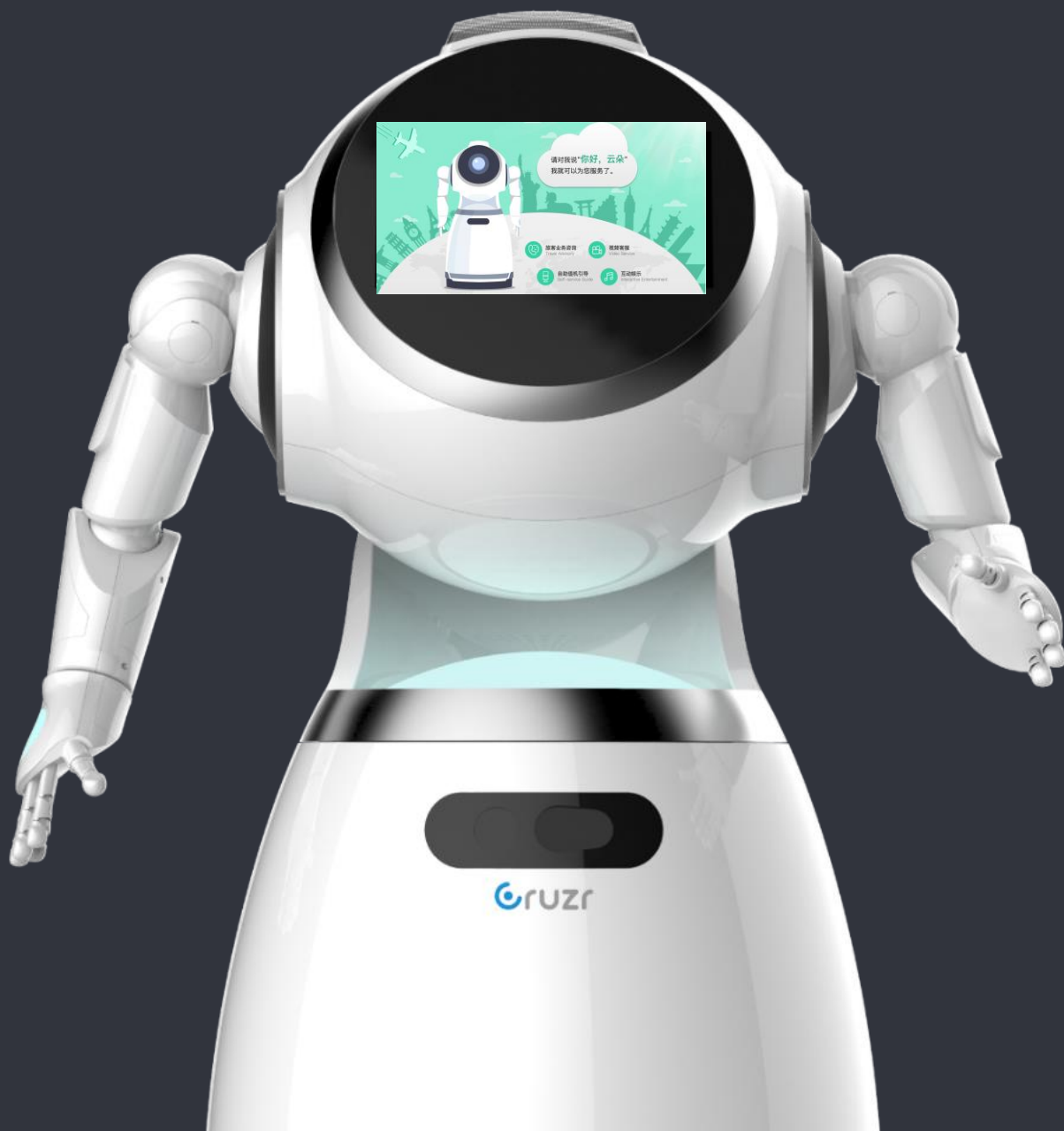Mobile broadcast of discount information and promotional activities

Provide fast support/answers for customers

Increase brand image and media coverage

cruzr

Transportation

Baiyun International Airport Case

Function Introduction

- Flight Consultant

- Direction Guidance

- Video Customer Service

- Self Check-in Guidance

- Entertainment

ruzr

Customize intelligent Q & A system

Precise, effective, and real-time flight information based on cloud servers

The only domestic robot achieves autonomous navigation and positioning in commercial scene

ruzr

Provide unique entertainment, play videos and dispaly photos

VIP customers have access to query their individual consumption points

Introduce tourist attractions

CRUZR

OPEN

Reception

The receptionist

- Ability to sign in guests

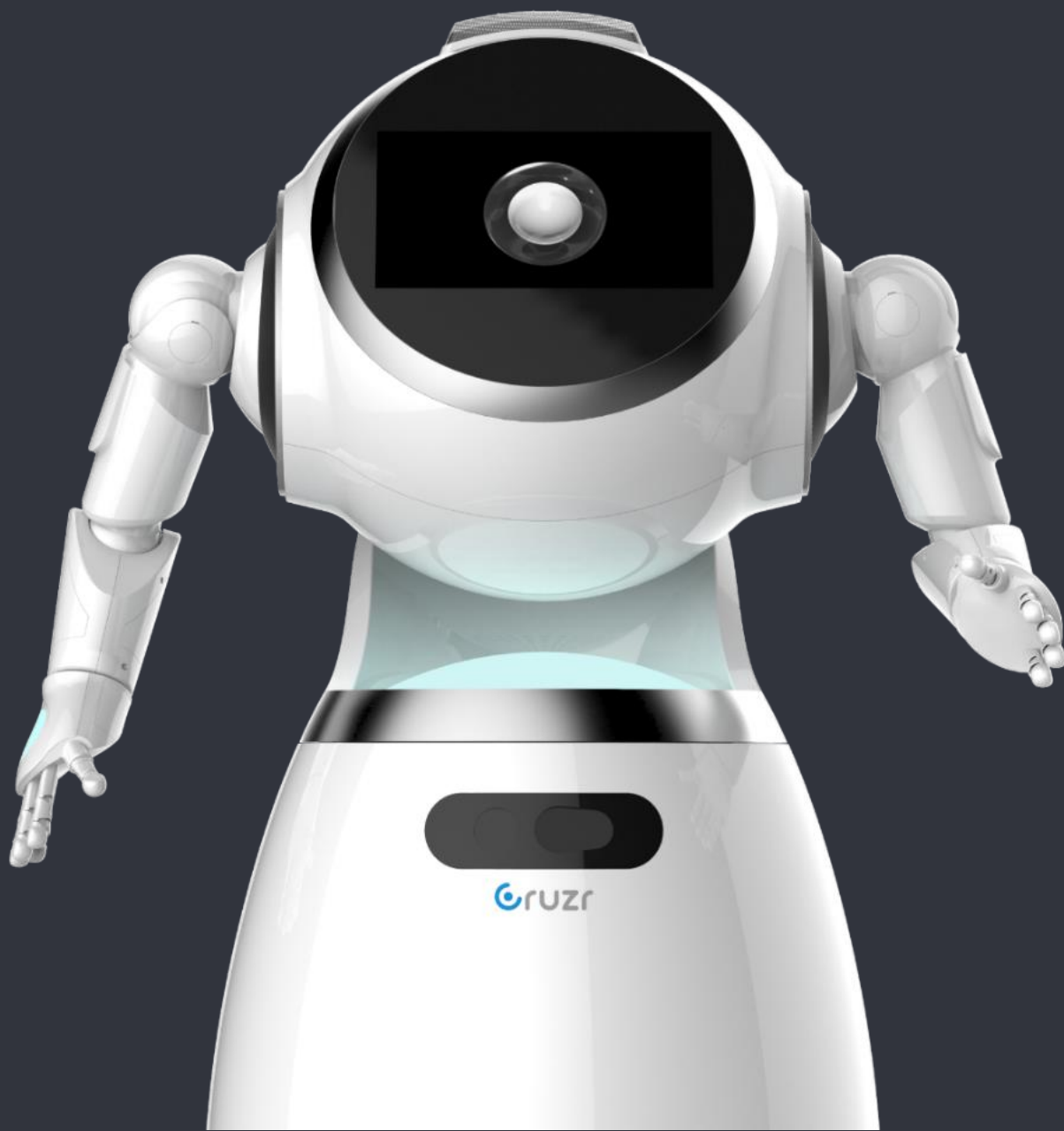- Check identity using facial recognition

- Dispense passes

- Reduced queue times

Construction Bank Case

Function Introduction

- Greeting Customers

- Bank Information Consultant

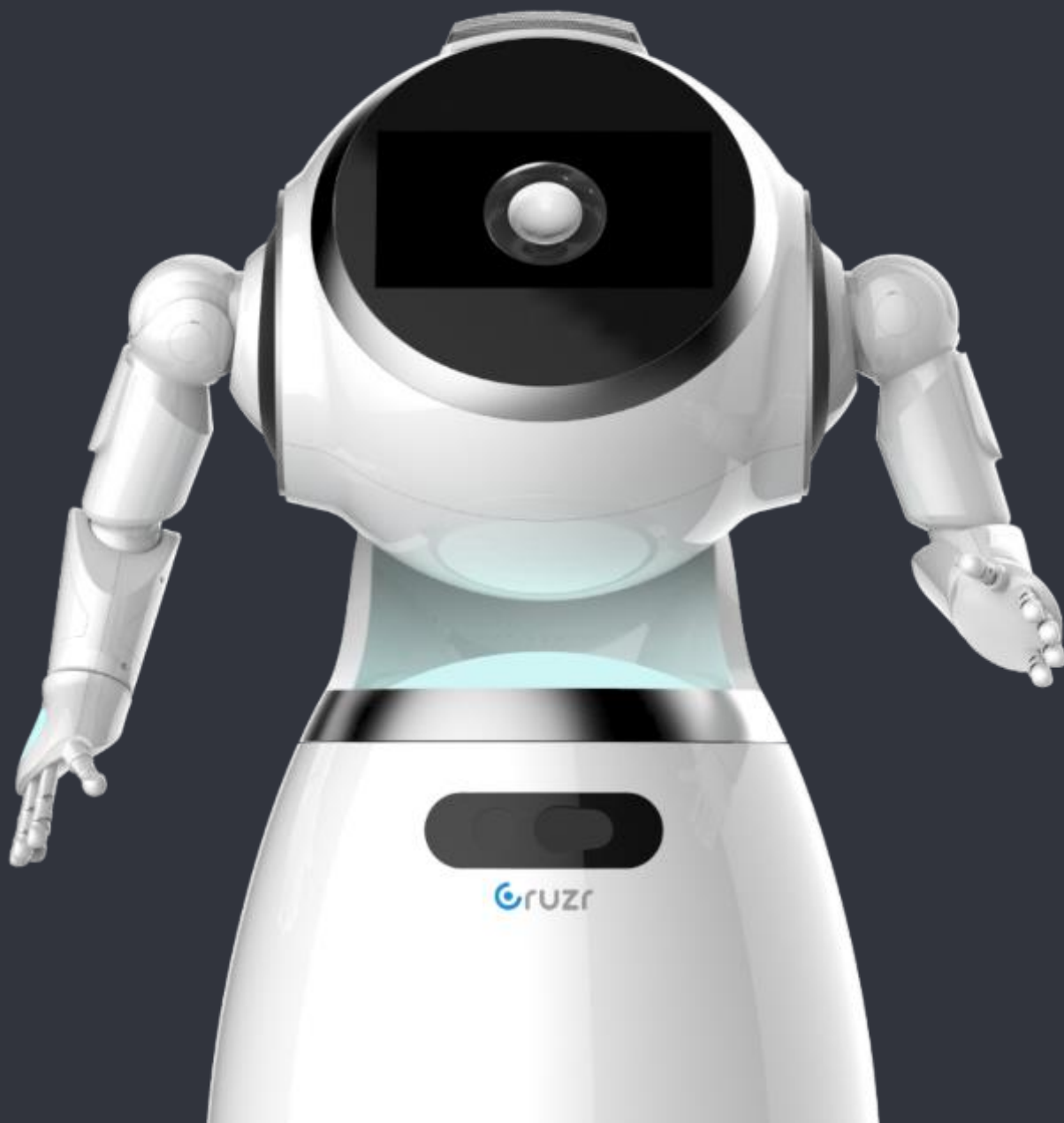- Video Customer Service

Cruzr

Guide customers during the service process or fill in the information

Replaces the bank staff in recommending suitable financial products to customers as a consultant

Provide immediate video service when they need to talk with their finance manager

Guangdong Museum Case

Function Introduction

- Greeting Customers

- Customer Reception and Guidance

- Navigation and Artwork Introduction

- Security Monitoring

ruzr

Provide guidance for the museum

Capable of shaking hands, greeting visitors, autonomous migration and graceful dancing

Introduce the artworks to customers

Realtime Monitoring

Cruzr

Education

The learning assistant

- Help teach second language
- Practice conversational skills
- Provides a platform to help teach students programming

Cruzr

Health

A new provider for healthcare

Break down language barriers for non medical communication

Helps locate patients for visitors

Ideal entertainer for children

The wellness coach

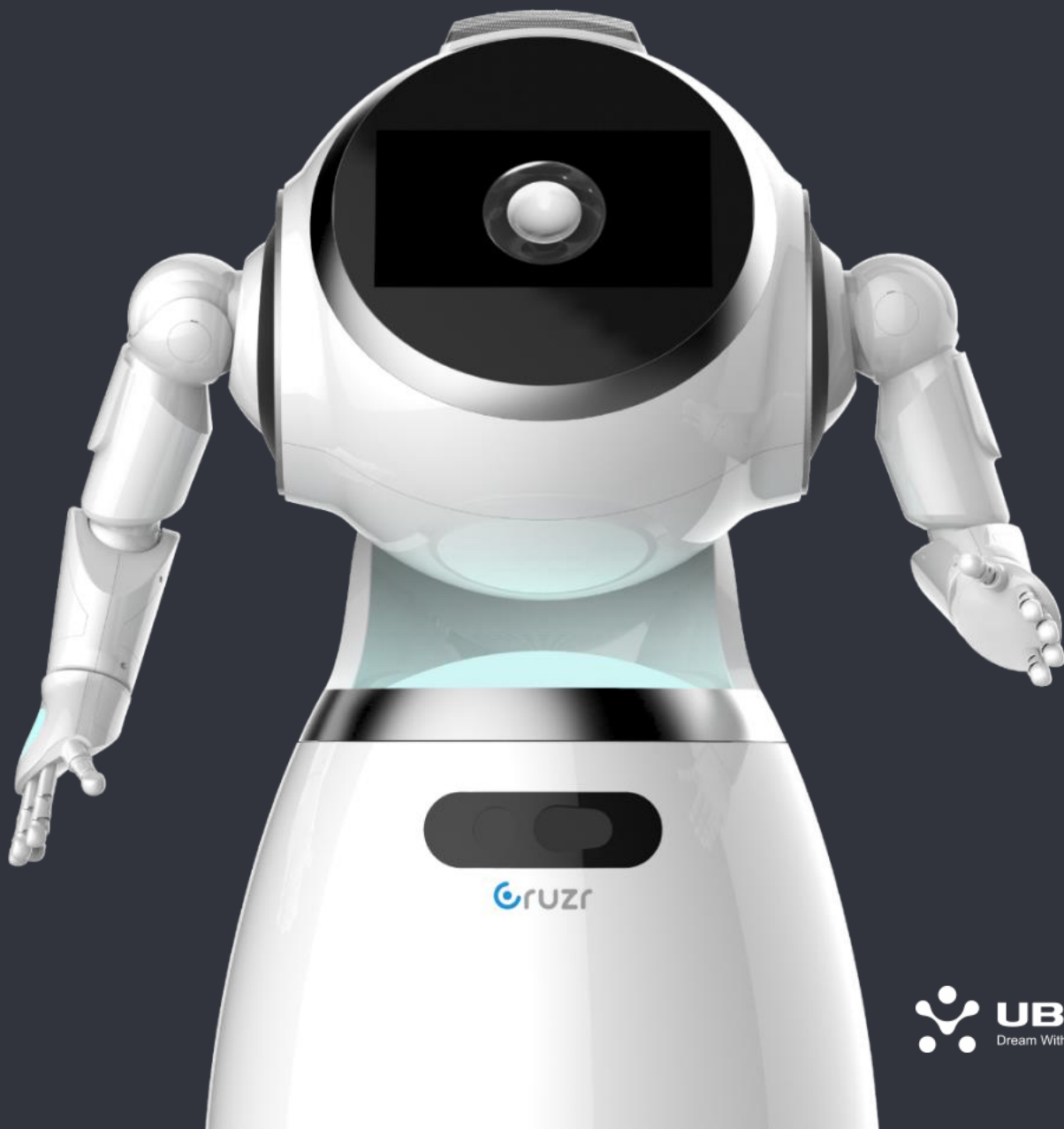☑ Provide tips for employees to improve their well being within the workplace

Tips include hydration, posture, mental health and vaccinations

❄ Higher retention of communications

TAKE A FIVE MINUTE STRETCH BREAK

Cruzr

Cruzr

Intelligent Service Without Limits

UBTECH
Dream With Robots