# Intelligent Cloud-based Business Service Robot

Cruzr
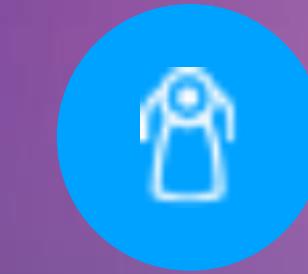
Customized, Cloud-based, Intelligent Humanoid Service Robot

New Era for intelligent robotic service

- Cloud-based Robotic OS
- Open API
- Customized Service
- One-stop Solution

✓ Dealing with repetitive tasks

✓ Reducing operating cost

✓ Increasing working efficiency

✓ Improving quality of service

✓ Improving customer satisfaction

✓ Improving cooperate brand image
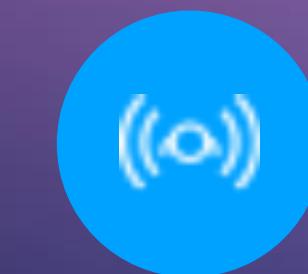
Key Features

- Friendly Human-like Design
- Real-time Stereo-Navigation
- Accurate Face Recognition
- Electronic Skin
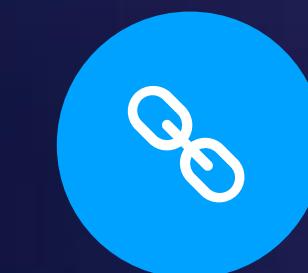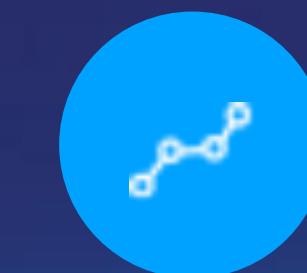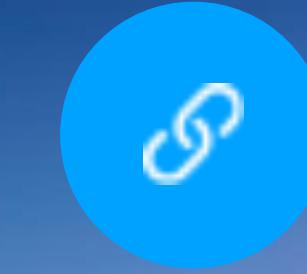
- Multimodal Interaction
- Automatic Recharge
- HD Video Conference
- Data Collection Analysis
- Simple Centralized Control
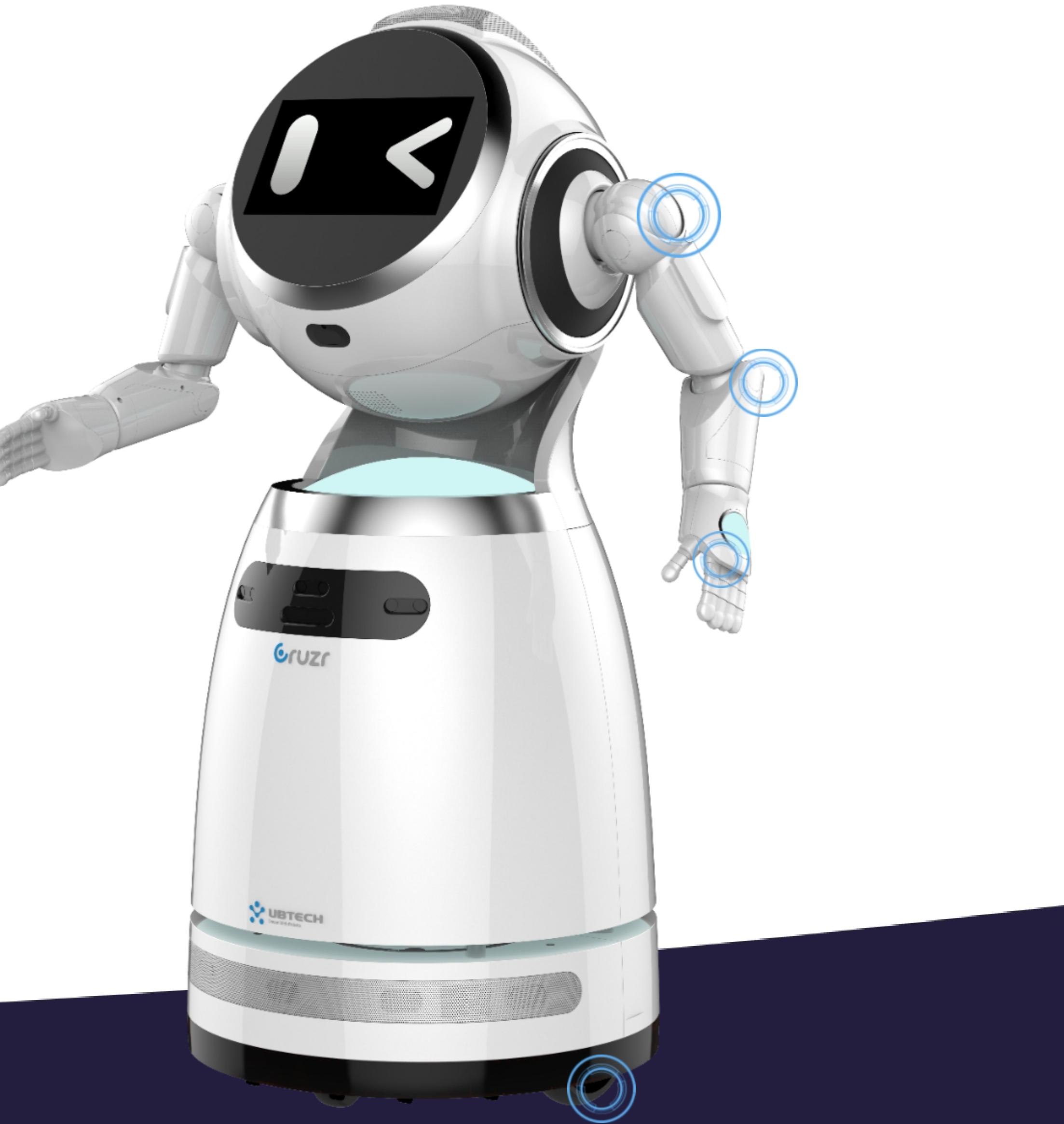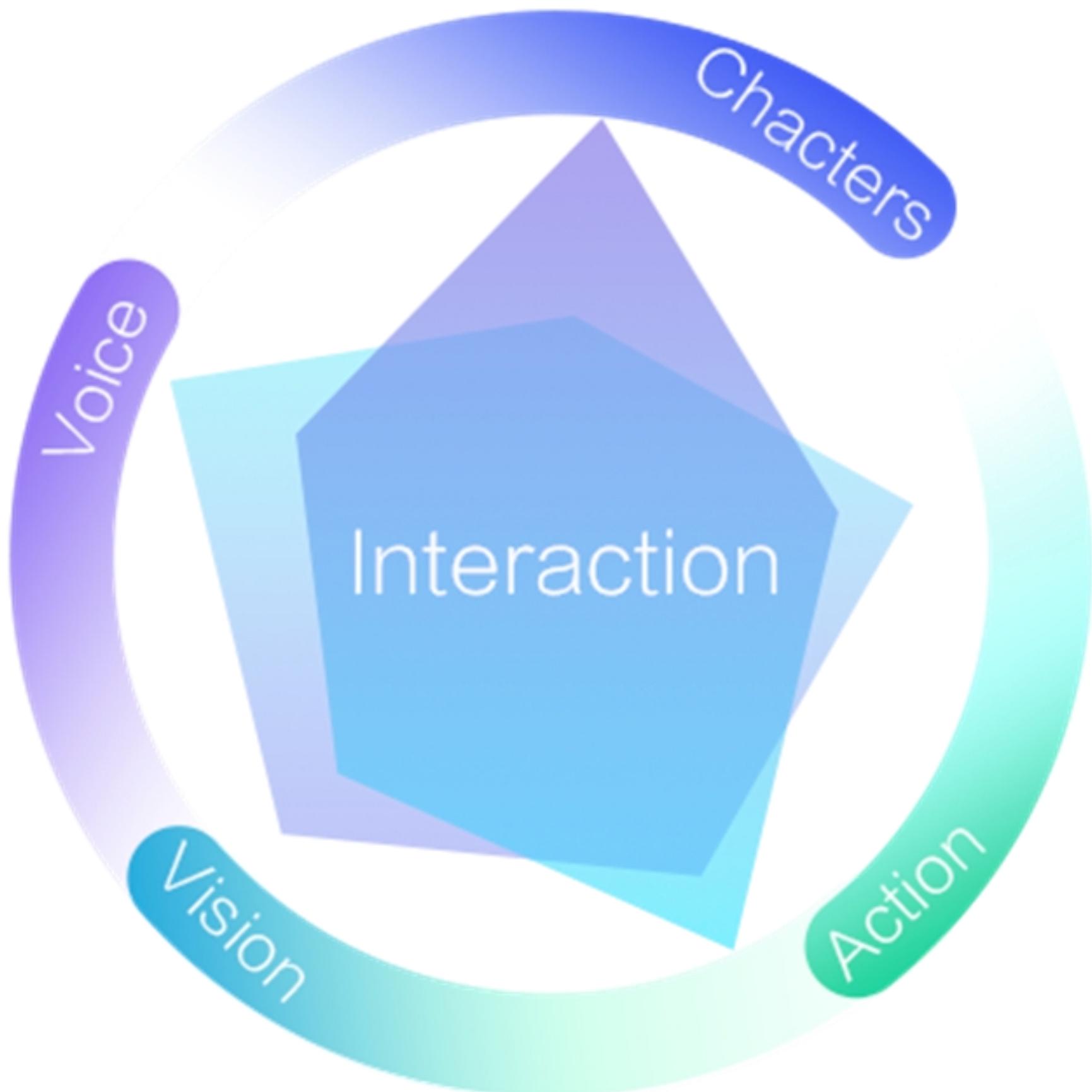
Friendly Human-like Design

○ Humanoid Robot

○ 15 Degrees of Freedom (DoFs) in total

○ 12 DoFs on shoulders and arms

○ 360° abrasion resistant and quiet wheels

    ✓ More Affinity

    ✓ More Friendly Trustable

    ✓ Rich Body Language

    ✓ Smooth and Stable Movement

Multi-modal Interaction

"Modality" means "sense", Multi-modal interaction is an interaction with voice, action, text, expression and other modes of communication to fully simulate human communication.

○ More expressive

○ More humanlike

○ More vivid

U-SLAM Navigation System

U-SLAM is short for UBTECH SLAM (simultaneous localization and mapping), which uses real-time positioning and mapping technology to navigate and avoid obstacles.

○ Real-time positioning and mapping

○ 6 kinds of major sensors that are distributed in a

   360° annular sensory array

✓ Self-adapt to different environments

✓ Arrive at any location with precision

Automatic Recharging

○ Auto return to recharging dock based on infrared sensor

○ 8 hrs working time (24 hrs standby)

○ Covert conductive wheeling charging technology

✓ Stable and accurate auto charging with low power consuming

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

Facial Recognition

○ Suitable for customer reception or profile creation

○ The recognition accuracy is up to 98%

○ Improve customer experience via knowing by a robot

Faster Face Recognition

More accurate Face Recognition

U-Meeting Video Call System

U-Meeting is a business application that provides HD voice and video call functions, through high-definition audio and video codec and smooth transmission.

○ Video-based Customer Service

○ High-definition Audio and Video Codec

○ Secured Video Data Transmission

Clearer   Faster   Safer

Enhanced Safe-Assurance with E-skin

Auto power off protection on arms

- ○ High Sensitivity
- ○ Fast Response
- ○ Soft
- ○ Large Detecting Area
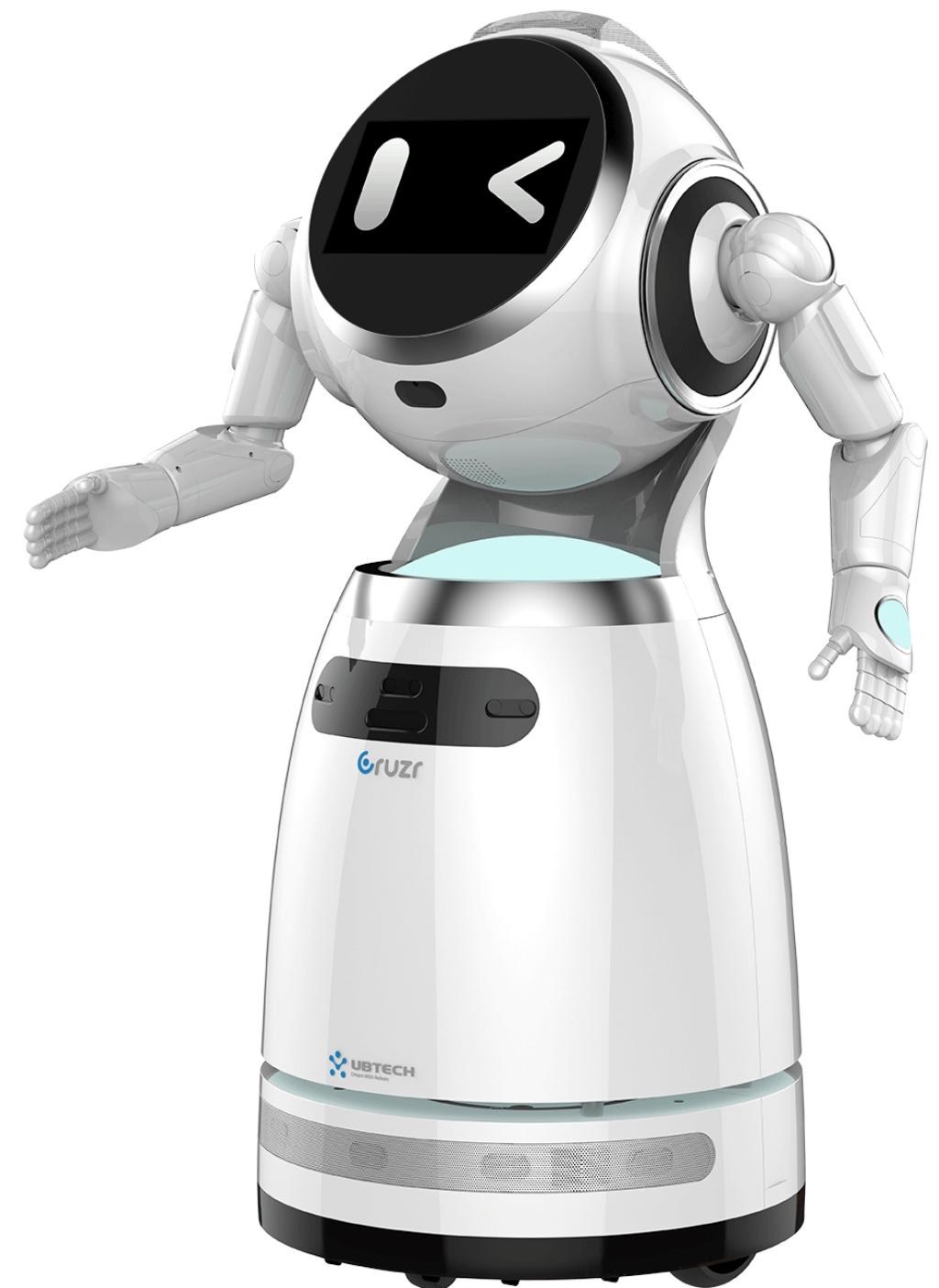
When any obstacles detected, the arms will stop moving which could avoiding unexpecting harm to people around and self-damaging.

High Sensitivity

Fast Response

Dual Protection

Big Data Analysis and Management

- Discover effective information to obtain better business value

- Data acquisition, storage and analysis

  ✓ High-efficient data acquisition
  ✓ Secured data storage
  ✓ Intelligent data analysis

Centralized Control System

○ Centralized Control System

○ Multiple Robots Patrolling Control

○ Multiple Robots Remote Advertising

✓ Convenient Multi-robots Control
✓ Advanced Intelligent Way Patrolling
✓ Convenient Advertisement Pushing

# Customizable Service with open APIs

○ SDK Package

○ Open APIs for third party application development

○ One-stop solution integration

✓ Customizable application

✓ Expandable solution

Product Parameters

Dimension：1214(H)*630(W)*537(D)（mm）

Screen：11.6inch TFT HD Touch Screen

Maximum Height of Obstacle to Pass：2CM

Maximum Climbing Angle：6°

Speed：0.3/0.5/0.7M/S（Max is 1M/S）

Laser Radar：360°

Weight：45kg

Resolution：1920*1080

Maximum width of gap to pass：3CM

Communication：Wi-Fi(2.4G/5G)，4G Module
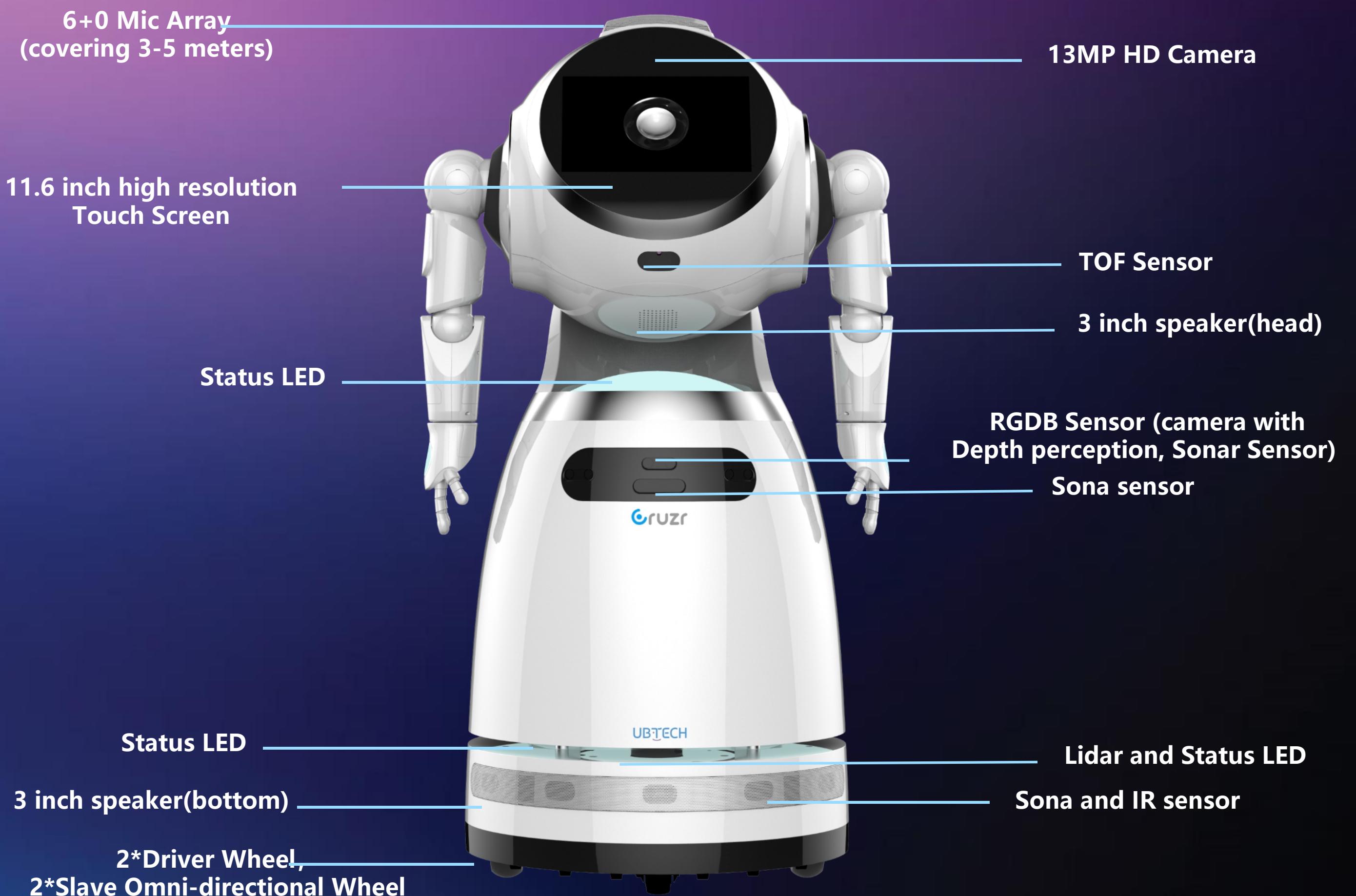
E-Skin：3*2（Two Arms，3pic/one Arm）

Speaker：85dB

Navigation sensor:

RGDB Sensor*1，Close Sona Sensor *3，Open Sona Sensor*5，

IR sensor *6，Lidar Sensor*1，Recharger Infrared *2，TOF Sensor*1

6+0 Mic Array
(covering 3-5 meters)

13MP HD Camera

11.6 inch high resolution
Touch Screen

TOF Sensor

3 inch speaker(head)

Status LED

RGDB Sensor (camera with
Depth perception, Sonar Sensor)

Sona sensor

Status LED

Lidar and Status LED

3 inch speaker(bottom)

Sona and IR sensor

2*Driver Wheel,
2*Slave Omni-directional Wheel

Application Scenarios

Garage

Medical Treatment

Traffic

Party Building

Retail

Government Affairs

Exhibition

Finance

Education

Hotel

Cruzr

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