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PRODUCT PRESENTATION · HUMANOID SERVICE ROBOT

UBTECH Cruzr

Intelligent Service Without Limits



Cruzr Overview

Customized, Cloud-based, Intelligent Humanoid Service Robot

Cruzr is a cloud-based intelligent humanoid robot that provides a new generation with service applications for a variety of industries and domestic environments.

> Cruzr's mission is to improve the way you conduct business from partnerships to your overall quality of life.



Cruzr Key Figures

98%
FACIAL RECOGNITION RATE

360°
ANNULAR SENSORY ARRAY

3–5 m
6+0 MIC ARRAY RANGE

1 m/s
HIGHEST SPEED

11.6”
TOUCH SCREEN

13MP
HD CAMERA, 1080P VIDEO

Cruzr Key Features

01
Humanoid Design with Flexible Arms

02
Multi-Modal Interaction

03
Navigation and Obstacle Avoidance

04
Data Analysis and Management

05
Video Conferencing

06
Facial Recognition

07
Safe and Secure Database

08
Customizable Service

09
Automatic Self-Recharge

10
Video Surveillance and Centralized Control

01

Cruzr

Key Features

- Auto Charging with Safe & Secure Design
- Multi-Modal Interaction with Facial Recognition
- Navigation and Obstacle Avoidance
- U-Meeting
- Data Analysis and Management
- Video Surveillance and Centralized Control



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Auto Charging with Safe & Secure Design



Fluid Form

Cruzr's design makes it approachable, friendly and safe.

Hypersensitive Arms

Piezoelectric film sensors enable it to instantly sense any obstacles.

Human-like Flexibility

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

360° Movements

Rotating 360° omni-directional wheels make Cruzr move smoothly.

Self Charging

Automatically docks itself into the nearest charger when running low.

Safe and Secure

Data stays protected with the latest encryption technology.

Multi-Modal Interaction with Facial Recognition

01

Natural Communication

With “multi-modal interaction”, Cruzr can interact with users in a fluid, human-like manner, which greatly enhances the user experience. Users can communicate with voice, action, text, and expression.

02

Facial Recognition

Cruzr uses facial recognition to identify users automatically. Users won’t need to fill out lengthy forms or questionnaires. Their info will be uploaded automatically through the network.

98%

FACE RECOGNITION RATE

Third-party integrations for emotion, gender, age and ethnicity recognition can also be implemented.

Navigation and Obstacle Avoidance

01 U-SLAM

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

02 Accurate Location Mapping

With the 6 major sensors that are distributed in a 360° annular sensory array, the actual location can be mapped out in real-time to allow Cruzr to adapt to situations and arrive at any location with precision.



Cruzr U-Meeting

01 Live Customer Service

U-Meeting provides voice and video communication that supports cloud computing and uses high-definition audio and video to ensure smooth transmission. Cruzr can also provide video conferencing and video-based computer services that allows employees to take control of Cruzr and help customers without having to be physically present.

02 Crystal Clear Video

U-Meeting supports “1-to-Many” video call modes. It can support live video broadcasts to thousands of people creating a new communication platform for businesses. The AES encryption algorithm is used to keep communication secure while preventing any illegal decryption or extraction. Cruzr makes it as if you are physically on-site.



Data Analysis and Management

A New Form of Analytics

Cruzr logs every interaction from voice operations to touch screen events. This enables companies to predict consumer behavior and automatically optimize user experience based on this data.

Cruzr offers an end-to-end value chain management service solution for data collection, storage, and analysis.

> It makes the analysis process more intelligent, and companies can discover effective information from the data to better serve customers.



Video Surveillance and Centralized Control

01 Multiple Device Monitoring

With one command, you can make multiple Cruzrs monitor and patrol simultaneously.

02 Video Surveillance

The multi-machine control system can carry out functions such as managing maps, real-time motion control, and video playback, which are useful for scenarios such as mobile patrol, advertising services, and security monitoring. Cruzr can support independent and command patrol for collaboration between Cruzr and security personnel.



02

Cruzr

Applications

- Customizable Service
- Banking & Government Offices
- Airports & Train Stations
- Malls & Hotels
- Museums & Exhibitions



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Cruzr Customizable Service

The open SDK interface for body movements, actions, expressions, speech, lighting, and facial recognition offered in the Cruzr's robot platform can be customized according to specific application scenarios. This further expands the depth and breadth of applications for Cruzr.

01
Banking

02
Car Dealerships

03
Classrooms

04
Museums

05
Shopping Malls

06
Hotels

07
Airports

08
Government Offices

09
Medical Offices

Banking & Government Offices

01

Financial Recommendations

It provides financial recommendations and solutions.

02

Self-Registration

Customers can self check-in, improving operational efficiency.

03

Intelligent Customer Service

Cruzr can guide customers through their transactions and assist them with filling out forms.

04

Data Management

Cruzr's secure cloud storage technology enables it to provide data management and financial information to users.



Airports & Train Stations

01 Information Hub

Assists passengers in finding information regarding their departure schedule, boarding locations, boarding gates and service areas. U-SLAM also guides passengers directly to their desired locations, such as a bar or bathroom.

02 Security

Helps maintain order within security areas with prompts and notifications. Cruzr can also assist staff by using facial recognition to verify passenger information and check documentation.



Malls & Hotels

01

Shopping Assistant

Cruzr can help guide customers to their desired locations. It can also provide directions to stores, recommend movies and places to eat.

02

Promotions

With advanced analytics and facial recognition, Cruzr can predict a customer's preferences and will provide relevant advertisements and promotions.

03

Smart Check-In

Facial recognition allows customers to check in to their hotel without having to wait in line.

04

Experience

Cruzr can provide a modern experience to hotel check-in. Its rich body language provides a friendly and futuristic experience for guests.



Museums & Exhibitions

01 Personal Tour Guide

U-SLAM tech allows Cruzr to provide a tour guide service. It can lead people to different areas of museums and exhibits.

02 Security

Cruzr can help during the exhibition and museum check-in process by using facial recognition to check in the attendees. Built-in cameras also allow Cruzr to monitor all museum and exhibition areas.



Cruzr Hardware Overview

- 13MP HD Camera
- 6+0 MIC Array (3-5 Meter Range)
- 11.6" Touch Screen
- Status LED
- 6W*2 Speakers



- Depth Perception Camera
- Lidar
- Sonar and IR Sensors
- Omni-Wheel

Cruzr Specifications

Size	1195(H)*521(W)*516(D)mm
Weight	42KG
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*
OS	Android & ROS
Networking	Wi-Fi 2.4G/5G

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
Velocity	Normal speed: 0.3m/s Highest speed: 1m/s
Accessories	1 Recharging dock 1 Power adapter 1 User manual

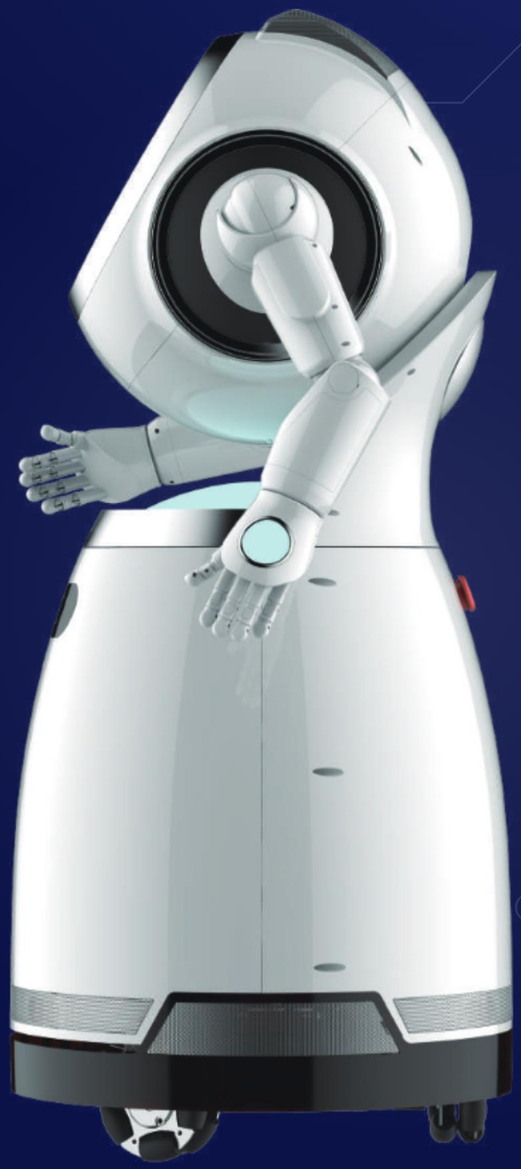
*2 Output power: 6W*2

03

UBTECH Robotics

The Company

Founded in 2012 and based in Shenzhen, China, UBTECH Robotics Corp. brings cutting-edge technical solutions to today's needs. As a highly innovative software house, systems integrator, and technology provider, the company has grown to become one of the top leaders within the commercial and consumer robotics industry.



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UBTECH Core Competency

The Leading AI & Humanoid Robotics Company. Beginning in 2008, UBTECH's expertise originated in robotic servo research and development. As the company grew, it introduced its humanoid robots to consumers and industrial applications.

01

Research & Development

UBTECH has various research institutions specializing in artificial intelligence. Working closely with renowned companies and universities, some of UBTECH's partner institutions include the Chinese Academy of Sciences, iFLYTEK, Tsinghua University, and Huazhong University of Science and Technology.

02

End-to-end Supply Chain

With multiple production bases across China, UBTECH's established supply chain system ensures high-quality products while offering competitive pricing.

03

Sales & Marketing

UBTECH's comprehensive online and brick and mortar channels gives it an unparalleled advantage when it comes to market share and sales.

One-Stop Solution R&D Center → Manual Production Line → Automated Production Line → Quality Control → Product Delivery

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