



深圳全智能机器人科技有限公司

Shenzhen All Intelligent Technology Co., Ltd.

SPECIFICATION

PART NO	SRT-301-DIS
SPEC NO	AI-SRT20200318
DESCRIPTION	AI Business Robot (Sterilizing Series)
DATA	2020.04.18

1.Overview

This disinfection robot series (SRT301 series) belongs to the business robot subject of Shenzhen All-Intelligent Robot Technology Co., Ltd. (AI-Tech). It is a robot independently developed by the company based on cloud services and has independent intellectual property rights. It mainly includes two parts: mobile platform and automatic disinfection system. The automatic disinfection system is under the core control system of the robot. You can use voice to control the disinfection power, disinfection range, disinfection path, disinfection time, etc. By micronizing and nanometerizing the disinfectant solution, the harmful germs are eliminated on the ground and the space, and there is no "discomfort" to the surrounding people.

1.1Intended use

☐Reception☐Explanation☐Security☒Disinfection ☐Patrol ☐Food delivery
☐Transportation ☐Others

1.2Application

Indoor applications: such as airports, schools, hospitals, waiting rooms, shopping malls, etc;

Work independently, self-contained system, cluster work, and remote synchronization.

2.Product configuration

2.1 Hardware motherboard function configuration

Tab.1 Hardware and hardware motherboard function configuration

No.	Subject	Interface parameters
1	CPU	S5P6818, Dynamic running frequency 1.4GHz
2	PMU Power management	AXP228, Support software shutdown and sleep wake up
3	DDR3 RAM	2GB

4	SD	micro SD
5	Wireless	802.11b/g/n
6	Audio	3.5mm/Via HDMI
7	I2S	OnboardI2S Interface, 7Pin,2.54mm
8	MIC	3.5mm
9	USB Host	4 x USB 2.0 Client
10	LCD	45Pin 0.5mm Spacing FPC mount, Support full colorTFT LCD (RGB:8-8-8)
11	HDMI	HDMI 1.4a, Type A, 1080P HD display
12	LVDS	20Pin, 2.0mm
13	DVP Camera	24Pin, 0.5mm, FPC
14	GPIO Expansion Port	4Pin, 2.5mm
15	Buttons	K1 (Power Button) , Reset
16	LED indicator	Power indicator, system status indicator
17	RTC	Support RTC
18	PCB Size	*** 6 Layers
19	Power supply	DC 5V/2A
20	OS/Software	u-boot,Android5.1,Debian8

2.2 Software function configuration

Tab.2 Software function configuration

Features	Software version / Chinese command	Software version / English command
Operating environment	Android 5.1	Android 5.1
Mobile platform system	AI-Tech 1.0 Version	AI-Tech 1.0 Version
AI Database platform	AI-Tech System	AI-Tech System
Epidemic report	Can be customized by region	AI-Tech System
Prevention knowledge	Can be customized	AI-Tech System

promotion		
Advertising Broadcast	Can be customized	AI-Tech System
Disinfection Mode	1 / 2 / 3 / Turn-off/Turn-on	AI-Tech System
Intelligent power management system	Multi-mode	AI-Tech System
Intelligent environment detection	Multi-mode	AI-Tech System
Intelligent dose management system	Multi-mode	AI-Tech System
Language switch	Speak Chinese, please speak Chinese, speak English, please speak English	AI-Tech System
Check the weather	What's the weather like?	
tell a story	tell a story	tell a story
Change name	Trigger : change name Robot response : What is the name change to ? Commands : Change to xxx	Trigger : change name Robot response : What is the name change to ? Commands : Change to xxx
Mathematics	one plus one	one plus one
Sing	Sing xxx	Sing xxx
Specific Question and answer learning function	Trigger : modify answer to my question Robot response : tell me you answer is Commands : xxx,xxx,xxxx	Trigger : modify answer to my question Robot response : tell me you answer is Commands : xxx,xxx,xxxx
Q & A custom function	eg: Q : xxx What's the company's phone number A : The telephone number is xxxxxx	
Regular reminder function (Do not support shutdown reminder)	Remind me to Format : Remind me to +Content+Time ex: Remind me to go to work at 8:10 tomorrow/Remind me to	Remind me to Format : Remind me to +Content+Time ex: Remind me to go to work at 8:10 tomorrow/Remind me to go to

	go to work at 8:10 every day	work at 8:10 every day
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3.Robot Size

Tab.3 Robot Size

L (mm)	W (mm)	H (mm)	Weight (kg)
470	450	1200	45

4.Hardware Specifications

4.1 Battery

Tab.4 Battery specification

Voltage	Capacity	Size
36V	13200mAh	192*90*72mm

4.2 Motor

Rated voltage	24	VDC
Rated power	50~250	W
Rated torque	5	N.m
Peak torque	10	N.m
Rated current	3~17	Arms
Peak current	34	Arms
Rated speed	600	RPM
Rated speed	800	RPM
Poles NO	15	Polo
Encoder	1024	Incremental

Fig.1 Motorspecification

4.3 Interfaces and buttons

Tab.5 Battery specification

Interfaces and buttons	1 * DC manual charging interface (42V / 2A power adapter)
	1 * DC automatic charging interface (42V / 2A dedicated charging box)
	1 * power on / off button
	1 * electric power and electronic communication interface for external equipment

5.Package & Transportation

5.1 High quality flight case package



Fig.2 Package & Transportation

5.2 Remarks

Do not manually twist the intelligent movable joint during packaging, transportation and use;

When turn on the machine, try to keep a certain distance to prevent the spray from spraying directly into the eyes;

Turn off the robot when charging to prevent the charging cable from being pulled;

Turn off the robot before packing.

Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter