

Company Name: Shenzhen Guanersheng Electronics Co., Ltd.

Specifications (Smart Screen ANC Noise Reduction + ENC + In-ear Detection)

stage	MP ỹ PPỹFEP
Finished product name	Y15
Bluetooth Name	A9 pro ANC

Approver	Production		Review		approve	
	Name	Suoxingdeng	Name	Suoxingdeng	Name	Han Shunlin
	date	2024-3-18	date	2024-3-18	date	2024-3-18
	R&D		R&D		R&D	

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- 1. Directory
- 2. Introduction
- 3. Picture description
- 4. Technical specifications
  - 4.1 Speaker specifications
  - 4.2 Microphone specifications
  - 4.3 Battery specifications
  - 4.4 Charging cable specifications
- 5. Headphone operation instructions
  - 5.1 Basic information 5.2
  - Basic functions
- 6. Functional block diagram 7.
- Circuit schematic diagram 8.
- PCB layout and printing diagram
- 9. Appearance requirements
- 10. Reliability requirements
- 11. Structure Confirmation

2. Introduction

Model: A9 pro ANC Bluetooth headset is a Bluetooth device that uses wireless technology. It is designed in accordance with the Bluetooth 5.4 version standard and meets its frequency requirements and fast connection. Its noise reduction effect is better than Bluetooth 3.0. It uses the Bluetooth main chip: Jerry 7003D4

3. Illustration

Finished headphones picture



#### 4. Technical specifications

##### 4.1 Speaker Specifications (provide manufacturer's letter of

approval) Ohm	29±15%Ω
Sensitivity	118±1.5dB (0dB=20μPa) at 1KHz, Input: 0.179VRms, IEC318
Frequency Range	50~5 kHz
Rated power input	2mW
Maximum power input	5mW
Speaker outer diameter	φ13.2*2.7(H)mm
1kHz sensitivity: Distortion 1. Less Than 5% at Rated Power Input 2mW 1000Hz less than 3% 2. SPL control: 50~5 kHz±1.5dB Dongguan	
Pengchuang Acoustic Electronics Co., Ltd.	
Manufacturer	

##### 4.2 Microphone Specifications (provide manufacturer's letter of approval)

size	2718mm
Sensitivity	-42±1dB, f=1KHZ, 0dB = 1V/Pa
Directivity	Omnidirectional
Signal-to-Noise Ratio	59dB, S/N f=1KHZ, SPL = 1Pa
Maximum operating voltage	10
Manufacturer	Shenzhen Huajing Technology Co., Ltd.

##### 4.3 Battery Specifications (provide manufacturer's letter of approval)

model	Headphone battery model: 400911----Charging box battery model: 901430
Manufacturer	Hong Leong Electronics Co., Ltd.
Protection board	have
capacity	Earphones: 28mAh, Charging box: 380mAh
Internal resistance	Cell: ≤500 Battery: ≤550
Voltage	3.7V
Volumetric energy density	Wh/L
Cycle life	300 times
Low temperature operation	At -20℃, more than 60% of the capacity can be released.
Short circuit test	Fully charged, short circuit of positive and negative poles for 2 hours without burning

4.4 Specifications of charging cable (provide manufacturer's letter of approval)

model	
Manufacturer	
Line length/tolerance	

Charging specifications

Test the output voltage of the charger and it will meet the requirements in the following table

Output	Voltage and current	scope	tolerance
1	+5.0V/0A	+4.75V~+5.25V	±0.25V
2	+5.0V/0.5A	+4.75V~+5.25V	±0.25V

Full load current: <10mA

5 Headphone Operating

Instructions 5.1 Basic Information

Prototype Name	A9 pro ANC	Rated voltage/current 5V/30mA	
Chip model	Jerry 7003D4	Charging time	Ÿ1H
		supporting agreement	A2DP v1.3 AVRCP v1.6 HFP v1.7 HID v1.1 AVCTP v1.4 AVDTP v1.3 SPP v1.2
Transmit power	Class 2 (-6dbm - +4dbm)	Battery Specifications	Model: 400911 , 28mAh
Working frequency	2.4G ISM band (2.402-2.480GHZ) Talk time		About 3.5 hours
Standby time: about 130 hours		Test Conditions	Phone model: iPhone
Charging time	About 1H	recharging current	300mA
Talk current	About 6.0mA (phone volume at 10 levels)	Music Time	About 5.5 hours
Music Current	About 4.0mA (phone volume at 10 levels)	Full power lamp voltage	4.1±0.1V
Backward distance	10 m	Low power shutdown voltage	3.3V
The	built-in	Re-burn function	Yes (with test fixture)
overall size of the antenna is 60.6mm long, 23.4mm wide and 45.4mm high.		Total Weight	Approx. 63.4 g

5.2 Basic Functions

Function confirmation table			Customer Type	
			Company Model	A9 pro ANC
item	Function Description	Instructions	Tips Requirements	Voice prompts
Order				
To-ear mode UI				
1. Power on		The earphones automatically turn on when the charging box is opened	Lights off	
2. Shutdown		Put the earphones into the charging box and close the cover to automatically shut down	The charging box has green LR charging percentage Digital display;	
3Headphone pairing mode		Take out the left and right earphones from the charging box and pair them for 3-5 seconds. After the pairing is successful, there will be a prompt sound, which will time out for about 180 seconds. Automatically shut down after seconds	Lights off	"paring"
4Mobile phone Bluetooth connection		After successfully pairing with the phone, there is a "connected" Voice prompts	Lights off	"connected"
5. Mobile phone Bluetooth is disconnected		After disconnecting from the mobile phone Bluetooth, there is a "Disconnect" Voice prompts	Lights off	"Disconnect"
6Play /Pause		When connected (the mobile player is turned on), left Short press any right button on the headset once	Lights off	
7Previous		When the phone is playing, triple-tap the left and right earbuds to turn off the lights.		
8 Next song		When the phone is playing, double-click the left and right earbuds to turn off the lights for the next song.		
9. Voice Assistant		Bluetooth connection status, long press the right ear for 2 seconds to turn on siri	Lights off	
10	On/Transparency/ANC Noise reduction/noise reduction off	Long press the left ear for 2 seconds to switch	Lights off	
11 plus/minus volume	Swipe up and down	Left and right ear touch position	Lights off	
12 Answer the call	13	When a call comes in, tap the headset once	Lights off	
Hang up the call		During a call, click the headset once in left and right	Lights off	
14 Voice Switching		ear pairing mode: default English voice, Before connecting to the phone, tap the touch to switch to Chinese. With voice prompt	Lights off	Chinese and English prompt tone
15 Reject call		When a call comes in, double-click any TOUCH button on the left or right ear.	Lights off	
16 Incoming call voice prompt play / In sleep mode, incoming call voice prompt			Lights off	How to set ringtones for iPhone Android phone fixed reminder sound
17 Automatic reconnection		When the voltage of the paired device is	Lights off	"connected"
18 Low battery warning tone		lower than 3.3V, there will be a voice message "low battery" remind	Lights off	Low battery
19	In-ear detection on or off Function	The left and right earphones are paired. Touch the position five times in a row. 'Beep' tone	Lights off	d
20 Power off voltage	21	If the voltage is lower than 3.3V, shut down immediately	Lights off	
Charging	22 Charging	4.0V or less 4.2V	Lights off	
completed Charging box UI		fully charged	Lights off	
1	The charging box uses a 5V=1A charger to charge the battery.			
2	Charging port TYPEC			
3. Charging box with cable charging		The charging box screen displays digitally, and the green digital display shows the charging symbol Power	Display	
4. Headphone Charging		The charging box screen displays digitally, with LR green indicating battery level	Display	

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

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.

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