specification

Customer name: Customer	
Pair name Pairing Name	V 53
Product name and specification are	bluetooth speaker
Description	
Company model number, I nternal	V 53
Model	

authorized strength	Su Guoping	date Date	2023/03/18
Prepared By			
examine and verify Checked By		date Date	2023/03/18
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			Guoping	

1

Directory / Content s

1. Scope of application is Page 3
2. Product features: Page 3
3. Basic parameter Page 4
4. Battery specification is Page 5
5. Acoustic specifications: Page 7
6. UI Page 9
. 7 Reliability test, page 10
8. Product certification: Page 16
9. Packaging and accessories, page 17
10. Notes for product use Page 17

1: Scope of application / Scope

This specification describes the relevant parameter requirements and inspection rules for the products manufactured by the Company.;;

2: Product features / P roduct F eature

1	Product features
2	Sound card / K song / Bluetooth audio integrated
	machine
3	Quickly connect to Bluetooth devices and support
	hi-fi music playback.
4	Built-in MIC support for no improved clear calls.
5	Built-in dsp, multisegment EQ.
6	Built-in live broadcasting / internal recording
	function / listening.
7	Built-in USB output emergency mobile power supply
	(5V / 1A)
8	Bluetooth High Fidelity K song
11	Choose high efficiency of speakers and high power
	amplifier to achieve high volume, high fidelity music
	playback.
12	Use large capacity:
	6000mAH(11.1V * 2000; 18650 / 2000 mA * 3;
	three-string) power battery,

13	Stable strap portable design for easy to carry
14	Multiple modes of controllable magic lights



Product profile / size ID size chart: L 205mm * W 94.7 * H 123mm

Product weight P roduct W eight:?g

3: Basic parameters / B asic P arameters

3.1 Product Bluetooth Parameters / Bluetooth P arameters

No	project	Parameter features	
1	model model	V53	
2	The Product type is Stereo type	Bluetooth K song speaker	
3	Sound channel system Track system	2.0 Sound channel	
4	Control mode: The control mode	7 PCS physical function button + remote	
		control	
5	Active and passive Active passive	active	

6	The Bluetooth solution is Bluetooth	BP1048B2	
	solutions	3. 10 1032	
7	The Bluetooth version of the Bluetooth	Bluetooth V 5.0	
	version		
8	Support for the Bluetooth protocol, the	specification support .A2DP v1.3, AVRCP v1.6,	
	Support Bluetooth profile	HFP v1.7, HID v1.1, AVCTP v1.4, AVDTP v1.3,	
		and SPP v1.2	
9	The Bluetooth working frequency is	40H z -18K Hz	
	Bluetooth working frequency		
10	Bluetooth audio decodin g of the	SBC	
	Bluetooth audio decodin g		
11	Antenna specification of Antenna	On-board antenna	
	specification		
12	Antenna transmitting power (RF)	2dBm	
16	Compatibility requirements are made	IOS/Android	
	for compatibility		
17	The Bluetooth effective distance is	12 Meters	
	Bluetooth range		
	The Bluetooth pairing time is Bluetooth	<12S	
	pairing time		
	The Bluetooth reconnection time is	A2DP 3s; HFP 8s	
	Bluetooth connection time		
	Best call distance (TBR)	0.3 Meters	
19	Bluetooth distance	10 m (open space without shelter)	
20	The Bluetooth microphone distance	8 m (open space without shelter)	

3.2 Product Electrical parameters / Electrical P arameters

No	project	Parameter features
1	Power scheme	ACM3128A
2	Charging scheme	IP2306
3	OVP slug	ETA7014 (28V)
4	Audio signal / noise ratio S / N	79dB
5	Frequency response to frequency	40HZ -18KHZ
	response	
6	output rating	50W
7	Rated power distortion rate	≤5%
8	maximizing power output	60W

4: Battery parameters / B attery SPEC

4.1 Battery pack specification / Battery String Specifications

		·
ITEMS	Specifications	remarks

nominal capacity	Section 3,18650 / 2000mA	
	6000 mAh (11.1V/2000mAh; three-string)	
nominal voltage	11.1V	
Factory voltage	11.5-12V	The whole machine is powered on within 6 months after shipment
internal resistance	The cell internal resistance is <60m Ω	Including the protective panel row line <150m Ω
charging voltage	5V	
Maximum charging voltage	5-5.5V	
Standard charge current /	5V/2.5A	
voltage		
Maximum charging current	2.6A±0.2	
Standard discharge current	2000mA	
Maximum discharge current	6A	
Discharge the overcurrent protection current	≥20A	
cutoff voltage	10V	
working temperature	0°C45°C	charge
	-5°C+60°C	discharge
NTC	With a 100K resistance to the NTC	
Battery cycle life	300 times (80% remaining capacity)	

4.2 Charging specification / Charging S pecification

Charging temperature: 0-45 degrees

Charging current: 3A + / -200 mA

Charging voltage range: 4.5V~6.05V

Charging overvoltage voltage: 28V

Charging time: 8 hours

Charging indicator: the red light is on; the red light is off

4.3 Play time specification / Play Time Specification

test method:

- 1 Preferred song (Hotel California)
- Fill the product battery and measure the endpoint voltage of the battery with a

multimeter with $12.6V \pm 0.2$.

- Set to TF card mode, use TF card as the audio source, input device.
- Maximum volume, loop playing songs, that is, the maximum volume playing time.

The maximum volume playback time is 2H

The default 50% volume playback time is 5H

5: Acoustic specifications / Acoustical specifications

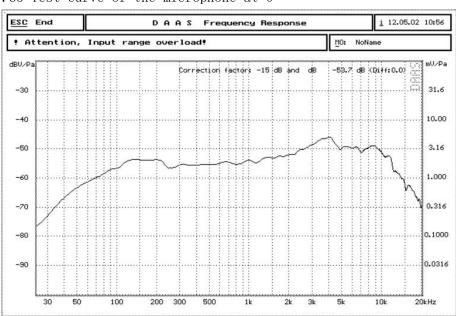
5.1 MIC specification / Microphone Specifications

Description	Specification
sensitivity (S)	Min45dB;Type -42dB;Max -39dB (0dB=1V/Pa,at 1KHz)
Output impedance	Max.:2.2KΩ (f=1KHz)
(Zout)	
Operating current	Max.:500uA (VCC=2.0V,RL=2.2KΩ)
(IDSS)	
noise-signal ratio (S/N)	Min.:60dB (at1KHz S,P,L=1Pa(A-Weighted Curve)
working voltage	Min.:1V,Max.:10V
frequency response	90Hz~15KHz

5.2, Microphone specifications

Description	Specification
sensitivity (S)	-53.7 (±3) dB (at 1KHz) (OdB=1V/Pa)
Output impedance	600 (±15%) Ω (at 1KHz)
(Zout)	
frequency response	70Hz~13KHz

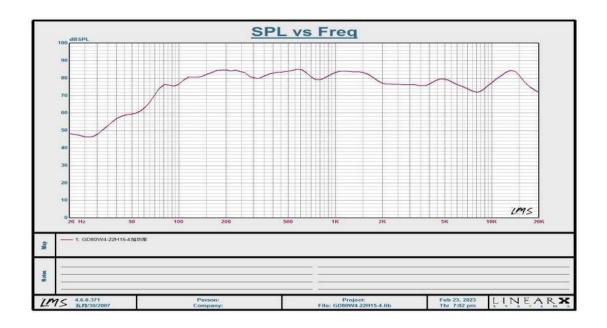
.35 Test curve of the microphone at 0°



5.4 System design requirements / System design Requirements

design item	ask	remarks
Sound processing	-The DSP shall be above section	
	EQ 14	
	-The DSP shall have the DRC	
	section 3	
Acoustic noise level	40 dBA (20cm from each horn)	
(residual noise / buzzing		
sound)		
Net volume of horn cavity	NA	
Structural design	No loosening, to prevent air	
requirements	leakage	
Bold wall thickness	5.0mm	

project	parameter	remarks		
1. The horn caliber	Full-frequency speaker; 78mm * 2			
Vibration film material	silica gel			
SPL	SPL≥82dB 1M/1W			
Fo	120Hz			
Frequency ring range	Fo 40HZ -18kHz (-6dB)			
impedance	4 Ω			
2. Rated power of	30W			
horn				
Horn curve:				



5.5 horn specification requirements- -full frequency horn / S peaker S

pecification

No	Test items	ask	Test condition description	Test frequen cy
1.	Polarity and vocal channel testing	Correct polar vocal channel	Use test equipment or test tunes	Full inspecti on of finished products
2.	sweep test	The vibration of the sound box should be less than the limit prototype	The bottom noise of the test room should be less than or equal to the condition of 60 dBA. Frequency range: 80Hz-2 KHz Input voltage: 200 mVrms (equivalent power 2W) Volume position: maximum Duration of 3S, 2 times Compare the limit prototype	Full inspecti on of finished products
3.	Air leak test	The wind noise and air leakage of each part should be less than the limit prototype	The bottom noise of the test room should be less than or equal to the condition of 60 dBA. Frequency range: 100Hz Input voltage: 200 mVrms (equivalent power 2W) Volume position: maximum Duration: 6S Contrast the limit prototype	Full inspecti on of finished products

4.	Sound quality test	Sound quality of the equivalent acoustic standard prototype	Experienced voice listeners; Listen to the sound with the default sound setting and the maximum volume in the listening room; The audition room compares the acoustic standard samples.	Full inspecti on of finished products
5.	Radator sound quality test (Karsound, out of control)	Sound quality of the equivalent acoustic standard prototype	Experienced voice listeners; Listen to the sound with the default sound setting and the maximum volume in the listening room; The audition room compares the acoustic standard samples.	Full inspecti on of finished products
6.	System frequency response test	Test: 100-6 KHz ± 3dB 6K-15KHz≤±4dB Reference to the acoustic standard prototype	In the muffler room; MIC distance: 15cm Volume: the maximum volume MIC location: MIC to speaker center Smoothing:1/3rd Octave Smoothing	Full inspecti on of finished products
7.	maximal SPL	Reference to the acoustic standard prototype	In the muffler room; Maximum output SPL was tested using EIA-426B noise with a coaxial direction distance of 1m at the maximum power @ MIC	
8.	Acoustic noise level (residual noise / boo / hum)	30 dBA, sound pressure meter distance of 10cm, aim at each horn	Environment: sound chamber <20 dBA Test signal: Noise tune input pattern:BT Volume level: maximum	

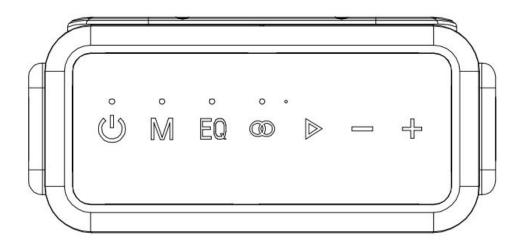
5.6 System Acoustic Test Requirements / Acoustic T est

6.V53 UI function / User Interface Function				
order number	function	Functional operation	Voice Prompt	LED state
	starting up	Short press "POWER" key for 1 second, such as inserted U disk, TF card, Line-in speaker boot memory into the last working mode. Do not plug in U disk, TF card, Line-in boot speaker automatically enter the Bluetooth mode search state.	warning tone	Bluetooth search status blue light flash
POWER	shut down	When turned on, press "POWER" for 2 seconds to turn off the Bluetooth speaker.	warning tone	The LED lights are
	Magic light	When switched on, short press "POWER" to switch magic lights. 1. meteor shower; 2. rhythm; 3 colorful breathing gradient; 4. Turn off the lights		The Bluetooth current state light
	Forced shutdown	In the crash state, long press the "POWER" key for 8 seconds to turn off the Bluetooth speaker.		All of the lights are going out.
	Mode	Short press "MODE" key to switch BT / U disk / TF / AUX working mode.		

0	1 .		1	
2 Mode	Force to disconnect Bluetooth	With the Bluetooth connection state, long press the "MODE" key 3S to disconnect the Bluetooth connection.	warning tone	
	factory data	In Bluetooth state, long press "MODE" key 8S to restore the factory setting and clear the previous operation memory.	warning tone	Bluetooth search status blue light flash
³ EQ	EQ changing-over	The default EQ is full frequency, short press "EQ" key for 3D, and then short press for heavy bass.		The white light is 3D and the green light is heavy bass.
EQ	Turn off	In the boot state, long press the "EQ" key 8S speaker to turn off the power saving mode. At this time, you can provide 5V maximum 1A current to other electronic devices for a long time.	warning tone	
4	Microphone switch	Start the default to open the microphone function, press to turn off the microphone function;		When the microphone is connected, the yellow light is always on
MIC	accompany	Start the default original sing, long press 1.5S to eliminate the original sound	No prompt	The green light is bright
5 PLAY/PAUSE	Pause play	Press the "PLAY / PAUSE" button in the Bluetooth / TF playback state to pause the playback.		Bluetooth play, pause the blue light long on, TF, U disk pause the blue light slow flash
		Press the "PLAY / PAUSE" button in the AUX playback state to play the mute		Play the blue light long on, silent blue slow flash
	Call to	Press the "PLAY / PAUSE" button to answer the call.		
	Call to refuse to receive	Press the 2S "PLAY / PAUSE" key to reject the call.		
	End of the	Press PLAY / PAUSE briefly to hang up the call.		
	The end of the re-pull	Bluetooth connection to the phone, double-click the "PLAY / PAUSE" key to redial the last call.		
	Voice assistant	Long press the PLAY / PAUS 3S to start the voice assistant function		
6	Reduce the volume	Short press the "V- / Next" key to reduce the volume.	No prompt	

V-/Prev	The last song	Long press "V- / Prev" to switch to the previous song	No prompt	
7	Add volume	Short press the "V + / Next" key to increase the volume	warning tone	
V+/Next	The next song	Long press "V + / Next" to switch to the next song	No prompt	
8	Intelligent power saving	The speaker will automatically shut down for 10 minutes, and it will not automatically shut down after connection.	not have	
9	charge	5V/2.5A Smart charging	not have	Charge the red light on after the red light out
10	Low electric alarm function	When 20% of the power, the low power alarm, and the speaker below 10% starts the shutdown program.	Have prompt sound	blinking red lamp
11	The AUX audio	Insert the 3.5mm audio line and automatically play the music provided by AUX	warning tone	When playing, the blue light is always on. When suspended, the blue light flashes slowly
12	USB broadcast	Insert the U disk to automatically play the U disk music	warning tone	When playing, the blue light is always on. When suspended, the blue light flashes slowly
13	TF card play	Insert the card to automatically play the TF card music	warning tone	When playing, the blue light is always on. When suspended, the blue light flashes slowly
14	Cable microphone input	Inserting a 6.5mm wired microphone will be automatically connected.	not have	
15	USB supply	Under the boot state, long press the "EQ" key 8S speaker to close the power saving mode, insert the USB charging line to charge the external equipment for a long time, and the maximum output voltage DC5V maximum current is 1A.	warning tone	
16	Live broadcast of the OTG internal	The Type-C data cable with OTG function to connect the mobile phone and the speaker at one end can realize the live broadcast / internal recording function	No prompt sound	

	recording				
17	Other special states	1). If inserted U disk, TF card, Line-in speaker boot memory into the last working mode. Do not plug in U disk, TF card, Line-in boot speaker automatically enter the Bluetooth mode search state.			
		2). Bluetooth input: after starting on, first connect the last matched device, and automatically enter			
		the matching state after the connection fails			
		3) . TF card input: Insert the TF card automatically converted to TF card mode and automatically play the music on the TF card			
		4). Line in Input: insert the audio line Φ 3.5mm terminal into the audio input port, automatically			
		switch to Line in mode and play the audio input from Line in			
		5). If the communication distance is disconnected, a reconnection is initiated every 30 seconds			
		6). When the mode switch is pressed, the corresponding TF card or Line in line is not inserted			
		7). In Bluetooth mode: when Bluetooth is not connected, automatic shutdown after 10 minutes; (not			
		automatic shutdown when connecting Bluetooth, not shutdown when connecting microphone, and long press			
		"EQ" 8S speaker to close the power saving mode.)			
		8). After connecting to Bluetooth, the mobile phone should display the battery symbol.			
		Indicator lamp definition			
		The blue light on the top of the power button is a Bluetooth indicator, and the red light is a charging			
		indicator			
		The green / white light on the top of the EQ key is the EQ indicator, the white light is 3D and the green			
		light is heavy bass			
		The green light on top of the microphone key is the microphone indicator			





7: Reliability test / Test of R eliability

test item	Test equipment +	condition of	criterion for
	test method	experiment	judgement
High	high	temperature:45±2°C;	1. No functional
temperature and	Appearance and	Relative humidity: 93 (+ 2	abnormality in
high humidity	function and	/ -3)%;	the
work	performance	Enter the pink noise;	high-temperatur
	confirmation of DUT	Test time: 12H;	e working
	before test.	Recovery time at room	process;
	Put the DUT in	temperature 2H.	2. The surface of
	operation into the		the product has
	corresponding test		no discoloration,
	equipment, and set		foaming and
	the relevant		other abnormal
	parameters		appearance, and
	according to the test		no abnormal
	conditions. After		function and
	completing the test,		performance.
	remove the DUT,		

	1 10 11		
	and verify the		
	appearance,		
	function and		
	performance.		
	Sample number: 3		
	samples		
Low temperature	high	temperature:-20±2°C;	1. No functional
work	Appearance and	Normal humidity;	abnormality
	function and	Enter the pink noise;	during the
	performance	Test time: 12H;	low-temperatur
	confirmation of DUT	Recovery time at room	e work process;
	before test.	temperature 2H.	2. The surface of
	Put the DUT in		the product has
	operation into the		no discoloration,
	corresponding test		cracking and
	equipment, and set		other abnormal
	the relevant		appearance, and
	parameters		no abnormal
	according to the test		function and
	conditions. After		performance.
	completing the test,		
	remove the DUT,		
	and verify the		
	appearance,		
	function and		
	performance.		
	Sample number: 3		
	samples		
drop test	Drop tester	1.2m high, each face falls	There should be
	Place the DUT on	once, 6 faces on the	no sound or
	the drop tester,	cement floor in a certain	obvious loose
	adjust its height to	order, a total of 6 times,	parts inside, and
	the specified	(need to check the	all functions and
	position, and then	appearance, function,	performance is
	let the DUT do the	disassembly	normal.
	free fall motion	confirmation)	normal.
	Sample number: 3	Commination)	
	samples		
	samples		

load carrying capacity	General aging site Sample number: 3 samples	Environment 23 °C ± 3 °C , Bluetooth connection input EIA-426-B track 2 pink noise signal, signal source volume, test 96 hours.	requirement: Power on test for 96 hours, after the end, the full functional examination should be free of damage and
			concealed damage. The sound ring should not fall off and the coil is deformed,
			the sound ring should not be black, wipe the foreign matter on the sound ring with
			hand.(Each 24H subjective listening sound detection function)
burn-in test	General aging site Sample number: 3 samples	Conditions and signal: Rated voltage: + / -10%, input EIA-426-B track 2 powder noise, output is 1 / 4 of rated power; Test environment: 45°C, 90% RH (3hour)	After removing the sample from the incubator, the functional test and appearance inspection
		-45°C, normal humidity (21 high), the whole process is a cycle, a total of 7 cycles tested. Note: This test is	should be completed within 15 minutes, and there should be

		charged in the incubator.	no functional impairment or hidden damage.
Key life test	Key-button life testing machine Sample number: 3 samples	Test load: 500gf Test speed: 30 times / min Test times: 5000 times.	No abnormal functions and performance.
Wire swing test	Swing test machine Sample number: 3 samples	TYPE-C charging cable: Clip Plug tail, speed 12 times / min, swing Angle: ± 60, hang 200g weight at 30cm below the swing position for 2000 times.	No abnormal function and performance; no damage in appearance.
Wire lifting heavy test	weight Sample number: 3 samples	Hold the Plug head vertically and horizontally and hang 3kg and 2kg weight along the cable at a distance of 30cm from the plug end to the load for one minute.	No abnormal function and performance; no damage in appearance.
Play the state displacement test	Sample number: 3 samples	At full charge, the speaker is placed on the wooden table without slope, and the outline of the speaker is crossed; The maximum volume loop plays the specified test signal "Moving test_Burn" for 1 hour, and lines the profile of the speaker position again after shutdown; Measure the distance of the speaker and record the maximum value.	Displacement is less than 1cm
Finished	Sample number: 3	Store the test product in	The footmat

machine foot drag drag test	samples	a high temperature and humidity environment	should not fall off, loose,
diag diag test		(40°C, 95% RH) for 8H at	warped,
		room temperature for	damaged and
		4H.	other bad
		Test on the glass and	phenomena.
		wooden table	рпенотнена.
		respectively, apply	
		pressure 5 times the	
		weight of the speaker,	
		return 30cm at a uniform	
		speed, 10 times per	
		minute, 10 times in the	
		front and rear direction,	
		and 10 times in the left	
		and right direction.	
Plug-in test	Plug-in tester	Total number: 1,000	Appearance and
		times. Speed: 40 times /	electrical
		min.	performance are
		The USB plug and pull	normal;
		force is in accordance	
		with the USB-IF v2.0	
		specification (plug force	
		<=35N, pull force>	
Dust proof and		=8N).	
waterproof test			
Attachment test	Bagger, 3M 600		Qualified
Attachment test	tape or equivalent,	Grasp one end of the	adhesion 4B is
	eraser	tape by hand, quickly	required.
	Draw 10101mm	tape by hand, quickly	required.
	1mm mesh on the test sample surface,	pull off the tape in the	
	each line shall be	vertical direction (00 °)	
	deep to the bottom	vertical direction (90 °),	
	of the paint; brush	and change the same	
	the debris of the test	J	
	area with a brush;	test in the same position.	
	adhere 350g / cm ² ~		
	400g/cm ² The tape		

	(3M 600 tape or		
	equivalent) firmly		
	sticks to the tested		
	small grid, and wipe		
	the tape vigorously		
	with an eraser to		
	increase the contact		
	area and strength of		
	the tape and the		
	tested area.		
	Sample number: 3		
	samples		
Hand resistance	Self-made mixture	After 24h at room	The appearance
test	(simulated sweat),	temperature, check the	of the product
test	plastic bags,	appearance of the paint	has no obvious
	dust-free cloth;	after the test is	discoloration,
	The dust-free cloth	completed.	foaming and
	soaked in sweat is	F	other abnormal
	pasted on the		appearance. A. For UV paint,
	surface of the		ordinary PU
	product and sealed		paint, rubber
	·		paint, the test
	with plastic bags.		time is 24h;
	Sample number: 3		B. The
	samples		composition of sweat is
			ammonia
			(purchased
			ammonia
			finished
			product) 1.07%,
			sodium chloride
			0.48%, water
			98.45%;
			C. This test is
			only for the external surface
			paint test, if it is
			the inner surface
			such as the
			battery
			compartment
			can not be
			required;
			D. The paint
			foaming
	1		5

			diameter is less
			than 0.8mm and
			the number of
			less than 5
			points is
			acceptable.
Comply with cosmetics	Dust-free cloth, Vaseline special lotion (dry moisturizing formula) First wipe clean the product surface with dust-free cloth, and apply the Vaseline special lotion (dry moisturizing formula) on the surface of the product (a thin layer). Sample number: 3	Put the product in the constant temperature and humidity box (temperature set at 55°C ± 2°C; relative humidity 95% ± 3%), maintain 48H, remove the product, wipe the cosmetics clean, and place in the normal temperature environment for more than 2h to check the appearance of the	Product surface without obvious discoloration, foaming and other abnormal appearance
	samples	product.	
Alcohol resistance test (Silk printing + radium carving)	Anhydrous alcohol (concentration 99.5%), alcohol resistance tester, pure cotton cloth Dip pure cotton cloth (special) with anhydrous alcohol (concentration 99.5%) and wrap it on the special test head (the area of the test head after wrapping cotton cloth is about 1cm²), A load of 500g was applied. Sample number: 3	Wipe the sample screen surface (flat area) for 100 cycles with a rate of 40 to 60 cycles / minute	After the test, slight wear and fade, but the font shall be complete
	samples		
Salt Spray Test	Salt mist tester	5% NaCl solution, PH	After testing,
	Visual metal parts	between 6.5 and 7.3,35°C environment by salt	rinse, no corrosion and
	shall be exposed in the salt spray	·	other abnormal
	Sample number: 3	spray tester 1.4 ±	otilei abiloililai
	1 - 2		

	samples	0.2Kg/cm2 for 48 hours.	phenomena.
vibration test	vibration measurement instrument 1. Put the normal products and accessories into the color boxes according to the packaging requirements; 2. Put the color box in a suitable carton (if the paper box is too large, it can be filled with soft fillings, so that the color box does not shake significantly in the carton) 3. Let the carton vibrate in X V and 7	At room temperature: temperature:20~25°C Relative humidity: 75% Atmospheric pressure: 86 kPa-106 kPa Random vibration parameters: 5~20Hz,PSD:1.0m²/s³; 20~200Hz, -3dB	After the vibration is completed, the color box and the inner box are not allowed to have obvious damage, dispersing, grinding products and other bad.
Pack material drop (color box)	Packaging Drop Tester & Manual Drop After loading the corresponding products, fall freely on the cement floor according to the specified height, with 1 corner, 3 edges and 6 sides. Sample number: 3	Drop height (color box): ≤ 2kg:100cm, 2~5kg:50cm. At room temperature: 25 °C ± 5 °C / ≤ 75%RH/ 86kPa-106kPa	After the test, the packaging has no serious damage or rupture, and the product should not have any organization or electrical defects.
Pack material drop (whole box)	The following test conditions were dropped to the cement floor. Drop height reference record	Drop height (box): 0~1kg:1.2m; 1~5kg:1m; 5~25kg:0.9m; 25~60kg:0.8m	The carton can not be broken, except the dent in the corner without the

below requirements: damage, the ≤10kg label sheet can 80cm not be >10kg≤25kg damaged; 60cm Color box can >25kg≤50kg have not 45cm The test order is as deformation, follows, falling once scraping, sealing in each direction paste open and 1st drop: side 4 other bad; 2nd drop: side 5 Products and 3rd Drop: Side 3 accessories can 4th drop: 1-4-5 not jump out 5th drop: 1-6 side from the inner Sample quantity: 1 case box and deviate from the original position; Appearance and function of products and accessories OK. The stacking test 1. Temperature 50 °C, The packaging A transport package 90% RH, left for 96 hours, can not prevent was used as a test return to 4H. the collapse, sample Pressure weight deformation, Sample quantity: 1 calculation formula: cracking and case $G = W \times ((N-1) \times S+2)$ other bad W: Weight of individual products, the 飛車 (G) packing boxes accessories can not be rubbed N: Number of packing 年品 (W) box stacking layers with each other, S: The stability factor of the fuselage can the packing box is 1.2 not have scratches, G: Stack weight the 3. Stacking time lasts for fasteners inside 7 days to relieve the and outside the pressure and determine machine can not the results be loose 4. The area of the load-bearing board should be greater than the carton area, cover the whole surface

Cryogenic test of	Constant	Temperature of the test	After testing,
packaging	temperature and	chamber is: -20°C± 2°C	there is no
material	humidity box		obvious
	The samples were		deformation and
	placed into the test		damage; the
	chamber and		sample
	removed after 48H		appearance shall
	and shelved for 2H		have no obvious
	in 20℃± 5℃		deformation,
	Sample quantity: 1		cracking and
	Sample quantity.		cracking.
	case		
I Cala Ass.	Country	The Assessment Coll	A £4
High-temperatur	Constant	The temperature of the	After testing,
e test of the	temperature and	test box is: 60°C± 2°C;	there is no obvious
coating material	humidity box	Relative humidity was	deformation and
	The samples were	90% ± 5%	
	placed into the test		damage; the
	removed after 48H		sample appearance shall
	and shelved for 2H		have no obvious
	in 20°C± 5°C		deformation,
	Sample quantity: 1		cracking and
	case		cracking.
Temperature		Put the packaged	After testing,
and humidity	Constant	samples into the test box	there is no
storage	temperature and	as required in the table;	obvious
	temperature and	12 cycles for 12 days.	deformation and
	humidity box		damage; the
	Trainiarty Box		sample
	Storage Telegratura Nazionale Conditions Temporatura 10% Hazishy		appearance shall
	80°- 80°- 80°- 80°- 80°- 80°- 80°- 80°-		have no obvious
	AU G		deformation,
			cracking and
	Sample quantity: 1		cracking.
	case		

Circulation	Deference to ICTA	1 Francisco management	1 Maintain tha
Simulation	Reference to ISTA	1. Environmental	1. Maintain the
transport test	2A	pretreatment; 2.	function of OK
		Environmental	2. Shake
		treatment;	products should
		3. Compression test:	not have
		release equipment	additional noise
		immediately after	3. No, click, click,
		compression	any loose or
		Take pictures of the	"broken" parts
		packaged product. If the	4. The product
		product is not damaged	shall have no
		or the packaging is	appearance
		degraded, perform the	damage
		vibration test; otherwise	5. The
		the test fails, the test is	appearance of
		stopped and recorded in	separate
		the test report.	packaging shall
		4. Vibration	be no obvious
		Take pictures of the	deformation or
		packaged product. If the	damage.
		product is not damaged	damage.
		or the packaging is	
		degraded, perform the	
		vibration test; otherwise	
		the test fails, the test is	
		•	
		stopped and recorded in	
		the test report.	
TI 500	FI	5. Drop test 6. vibration	
The ESD	Electrostatic gun	Contact discharge: 0-2 No abnormality is	
electrostatic test	DUT output	allowed	
	terminal, metal	2-4 After the product	
	mesh, screws and	function error occurs, it	
	other exposed parts	can automatically restore	
	of each terminal or	the normal state allowed.	
	circuit board.	4-6 It is allowed to return	
	Sample number: 3	to the normal working	
	samples	state through key	
	Contact discharge	operation, dial plug, standby, reset and other	
	was tested 10 times	methods.	
	from + / -4KV and	6-8 No hardware	
	air discharge 10	damage problem	
	times from + / -8KV,	Air discharge: 0-3 No	
	1s apart.	abnormality is allowed	
	<u> </u>		

occurs, it can automatically restore the normal state allowed. 4-6 Return to normal working state by dialing, standby and reset, but also return to normal working state by other key operations. 6-8 It is allowed to return to the normal working state by key operation, dial plug, standby, reset and other methods. 10-15 No hardware damage problem Key parts of the temperature rise from the measured 1. Ambient temperature: Meet 23°C (+/-3°C)	
4-6 Return to normal working state by dialing, standby and reset, but also return to normal working state by other key operations. 6-8 It is allowed to return to the normal working state by key operation, dial plug, standby, reset and other methods. 10-15 No hardware damage problem Key parts of the 1. At least 8 inches 1. Ambient temperature: Meet	
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10-15 No hardware damage problem	
damage problem	
Key parts of the 1. At least 8 inches 1. Ambient temperature: Meet	
temperature rise from the measured 23° C (+ / -3° C) customer's	the
2 Test simple Odp Diele	
sample surface. 2. Test signal: 0dB Pink design	
Temperature rise 3. Output power: 1 / 2 requirements	
measurement and ROP	
recording were (The voltage of the test	
performed at least speaker, closest to 1 / 2	
once every 2 ROP)	
minutes during the 4. Power supply: Power	
test cycle. supply adapter directly	
2 The function of power supply	
the cample after the 5. Battery: Battery full	
test is as normal as 6.	
that before the test, 7. Input source adopts BT	
and the temperature input;	
rise test data meets 8. At least 8 inches from	
the measured cample	
the specifications. Surface. Temperature rise	
3. Temperature measurement and	
probe. recording were	
Sample number: 3 performed at least once	
samples every 2 minutes during	
the test cycle. 9. The function of the	
sample test is as normal	
as before the test, and	
the temperature rise test	
data meets the	
specifications.	

Battery capacity	Battery capacity	1. Random take 3 groups	Meet the battery
test	separation tester	of large batteries and put	specification
	Sample number: 3	them on the red and	requirements
	samples	negative rack of the	
	·	positive and negative	
		port of the volume	
		cabinet	
		2. Set the operation	
		steps:	
		* Break into single	
		battery aging	
		* Constant current	
		charging is 0.5C standard	
		setting, and the cut-off	
		voltage is set to 4.2V	
		* The parameters of	
		constant voltage	
		charging equipment 4.2v	
		are set according to the	
		test standard value	
		* The device standing	
		time is 5 minutes	
		* Constant discharge 0.5c	
		standard parameter	
		device with cut-off	
		voltage of 2.75v	
		* The circulation capacity	
		number of the equipment shall not be	
		less than 300 times, and	
		the capacity shall not be	
		less than 80% of the	
		standard value	
Charging test	1: DC voltage power	1:4.75V-5.25V When the	Meet the
	supply.	voltage is input, the charging current meets	customer's
	2: Adapter 5V / 3A, 5V / 4A,	the design requirements.	design
	5V / 4A, high-pressure fast	2: Charge with 5V / 3A,	requirements
	charging adapter,	5V / 4A, and the current	
	etc.	meets the requirements.	
		3: Use the high-voltage	
		fast charging adapter, and the current meets	
		the requirements.	

Play-time test	1: finished product testing machine. 2: The iPhone.	1: Test according to the playback time test method.	Meet the customer's design requirements
Bluetooth distance test	1: finished product testing machine. 2: The iPhone.	1: Connect your phone to play music.	Meet the customer's design requirements: Barrier-free connection distance: 12M; Distance apart: 10M; The distance between the host engine and the pilot is 8M

8: Product certification / Product certification

FCC(America)	CE(EU)	Telec	ROHS(EU)	UN38.3	CCC SRRC
		(Japan)		Test Report	(China)
				& MSDS	
Appraisal	UKCA(Britain)	IP67	UL		
report of air					
and Marine					
products					

9: Packaging and accessories / Packaging and Accessories

Color box packaging (external size:) * 1 Speaker * 1 Information Manual (English) * 1 TYPE-C charging line (2 cores, 60mm long) * 1

10: Product considerations / Notice for Product

- 1. Do not use an abrasive detergent to clean this product.
- 2. Do not let the product be heated or near the fire source, such as a cooking stove.
- 3. Do not let this product be directly exposed to sunlight for a long time.
- 4. Do not place the product in the fire to avoid an explosion.
- 5. Do not attempt to dismantle the product to make any modifications as it does not contain any service components.
- 6. Do not soak it in water to use this product.(Except for products above the waterproof grade IPX 7)
 - 7. If you do not intend to use this product for a long time, please store it in a dry environment to avoid extreme temperature, humidity and dust.

And charge the stereo at least once a month to extend the battery life.

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

The devices has been evaluated to meet general RF exposure requirement, the device can be used in portable exposure condition without restriction