

Shenzhen Luxneon Ltd

Day period

April 2, 2019

Version of this

01

The file number

002

1. Using range

This specification describes the TWS Bluetooth headset related parameter requirements and inspection rules.

This specification refers to the national GB8898-2011 audio product safety and GB 13837-2012 sound general specification.

2. Product Parameter Characteristics

No.	project	The parameter characteristic
01	The product name	Bluetooth earphonest
02	Product model	EGC05
03	Track system	True stereo
04	The control mode	touch
05	Active passive	active
06	Bluetooth solutions	JL6963A4
07	Bluetooth version	Bluetooth V5.0
08	Support Bluetooth protocol	HSP/HFP/AVRCP/A2DP
09	Bluetooth operating frequency	2.4GHz-2.48GHz
10	Receiving sensitivity	$\geq -90\text{dBm}$
11	Bluetooth effective range	Straight line accessibility $\geq 10 \sim 15$ meters
12	The speaker power	Rating 3mW
13	Radio frequency power rating of earphones	Class2
14	Headphone amplifier type	Chip built-in
15	Audio signal-to-noise ratio	$\geq 95\text{dB}$
16	Frequency response	20Hz~20KHz
17	Loudspeaker unit	$\Phi 10\text{mm}$, 32 bits high fidelity
18	The microphone	Silicon microphones, $-42\text{dB} \pm 2$
19	Built-in battery	Single lug polymer battery 3.7V/30mAh, charging case polymer battery 3.7V/200mAh
20	Music time	About 2 hours
21	Talk time	About 2 hours
22	Charging Input Standard	Apple interface, DC5V/1A
23	Charging time	The headset takes about 45 minutes to fully charge and the charging case takes about 1.5 hours to fully charge
24	Battery cycle life	The charging and discharging cycles of the headset shall be ≥ 350 times, and the charging box shall be ≥ 350 times
25	Single lug weight/size	4g, 16.5*18.0*40.5mm
26	Charging box weight/size	38g, 44.3*21.3*53.5mm

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27	Temperature/humidity range	In dry and ventilated room, should avoid contact with corrosive substances, away from fire and heat sources. The product will be charged once every 3 months during storage. Operating temperature/humidity: 0~40℃, ≤70% Storage temperature/humidity:-10~45℃, ≤70%
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3. Product features/features

No.	project	Functional features
01	control	Support control answer/hang up/pause/play/previous/next /

4. Test items and standards

Instruments/tools: computer, Bluetooth adapter, Bluetooth tester, charging cable or DC power supply.

No.	project	Test conditions and methods	The judgment standard
01	Bluetooth connection	Remove both earphones from the charging box and turn them on until the red and blue lights flash to automatically complete pairing. Search for connection through Bluetooth tester to check whether the earphones can be successfully connected, and observe whether the connection name displayed on Bluetooth tester is	The connection is successful Bluetooth name: B55
02	The keyboard	After the Bluetooth tester is paired with the headset and connected successfully, it is required to test the following key functions: answer/hang up/pause/play/last song/next song/voice assistant and other functions are normal	The key function is normal
03	Indicator light	Charging status: the red light is long on; Charging completed: red light goes off; Pairing status: red and blue light flashing; Connection status: red and blue lights off.	Indicator light and corresponding state is normal
04	From the test	When the headphone is connected with the iPhone successfully and the music is played, the music sound should not be stuck when the headphone is directly to the phone and the headphone is back to the phone ≥10 meters	Music playing normal
05	Connection stability	Connect the earphone with the iPhone and play music successfully. When the straight connection distance is ≥10 meters without obstacles, pay attention to whether there is pause or stuck sound in the music	The music sounds normal

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06	Automatic connection	First, connect the earphone to the mobile phone successfully, and then turn off the earphone and restart it, and check whether it can automatically reconnect with the last connected device	Automatic connection is normal
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5. Headphone reliability test

No.	project	Test conditions and methods	The test results
01	High and low temperature cycle	Place the Bluetooth headset in a temperature control box with the temperature of $20^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for the following steps A) Put the sample in an experimental chamber with a temperature of $45^{\circ}\text{C}\pm 2^{\circ}\text{C}$ for 2 hours; B) Reduce the temperature of the chamber to $-10^{\circ}\text{C}\pm 2^{\circ}\text{C}$, and keep it for 4 hours; C) Temperature conversion time is not more than 30 minutes; D) Repeat steps a) ~ b) for a total of 4 times. Bluetooth headset should not leak, not deflate, not fire, not explode, not break, indicator light and all functions are normal.	OK

6. Products use

(1) LED Indicator Status

- Pairing status: red and blue lights flashing
- Connection status: red and blue lights off
- Caller status: The blue light is long on
- Call status: blue light flashing
- Charging status: the red light is long on
- Charging completed: red light goes off

(2) Key function operation

- Play/Pause: Press once
- Upper/Lower: Press the upper twice on the left and the lower twice on the right

Answer the call: press the button once

(3) Operation specification

- Keep the distance between the Bluetooth headset and the mobile phone (or other connected devices) within 1 meter (the closer the better).
- The Bluetooth headset will be automatically paired in the power-on state, and the red and blue lights will flash after successful pairing

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- Turn on the Bluetooth function of the user's mobile phone (or other Bluetooth devices) and search or scan. At this time, the phone will search for all nearby Bluetooth devices. Select the name of the headset in the search list: the red and blue lights will be off after successful connection of B55.

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 to this unit 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.

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

Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. in portable exposure condition without restriction.