Manuals+
Q & A | Deep Search | Upload

ABKO EC10

ABKO EC10 Active Noise Cancelling True Wireless Earbuds User Manual

Model: EC10

Introduction

The ABKO EC10 Active Noise Cancelling True Wireless Earbuds are designed to provide an immersive audio experience with advanced noise cancellation and clear communication features. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance of your earbuds.

What's in the Box

- 1 x EC10 Earbud Set (Left and Right)
- 1 x USB-C Type Charging Cable
- 4 x Ear Tips (various sizes)
- 1 x User Manual (this document)

Image: The ABKO EC10 earbuds shown inside their charging case, with the USB-C charging cable and extra ear tips.

Setup

1. Charging the Earbuds and Case

Before first use, fully charge the earbuds and the charging case. The case supports both USB-C wired charging and wireless charging.

- **Wired Charging:** Connect the provided USB-C cable to the charging port on the case and to a USB power source.
- **Wireless Charging:** Place the charging case on a compatible wireless charging pad.

The charging time for both the cradle and earbuds is approximately 1.5 hours.

Image: The ABKO EC10 charging case placed on a wireless charging pad, illustrating its wireless charging capability.

2. Pairing with Your Device

The EC10 earbuds feature fast auto-pairing for convenience.

1. Ensure your device's Bluetooth is turned on.
2. Open the charging case. The earbuds will automatically enter pairing mode.
3. On your device, search for Bluetooth devices and select "ABKO EC10" from the list.
4. Once connected, you will hear an audible confirmation.

The earbuds use Bluetooth Version 5.0 and have an operation distance of up to 10 meters.

Your browser does not support the video tag.

Video: An official product video demonstrating the features and usage of the ABKO Wireless ANC Earbuds EC10, including pairing and various modes.

Operating the Earbuds

Active Noise Cancellation (ANC)

The EC10 earbuds feature Active Noise Cancellation (ANC) technology, which analyzes surrounding noise and generates a "counter-noise" to cancel it, reducing ambient noise by up to 28 dB. They also offer Passive Noise Cancelling through ergonomically designed ear tips for a secure fit.

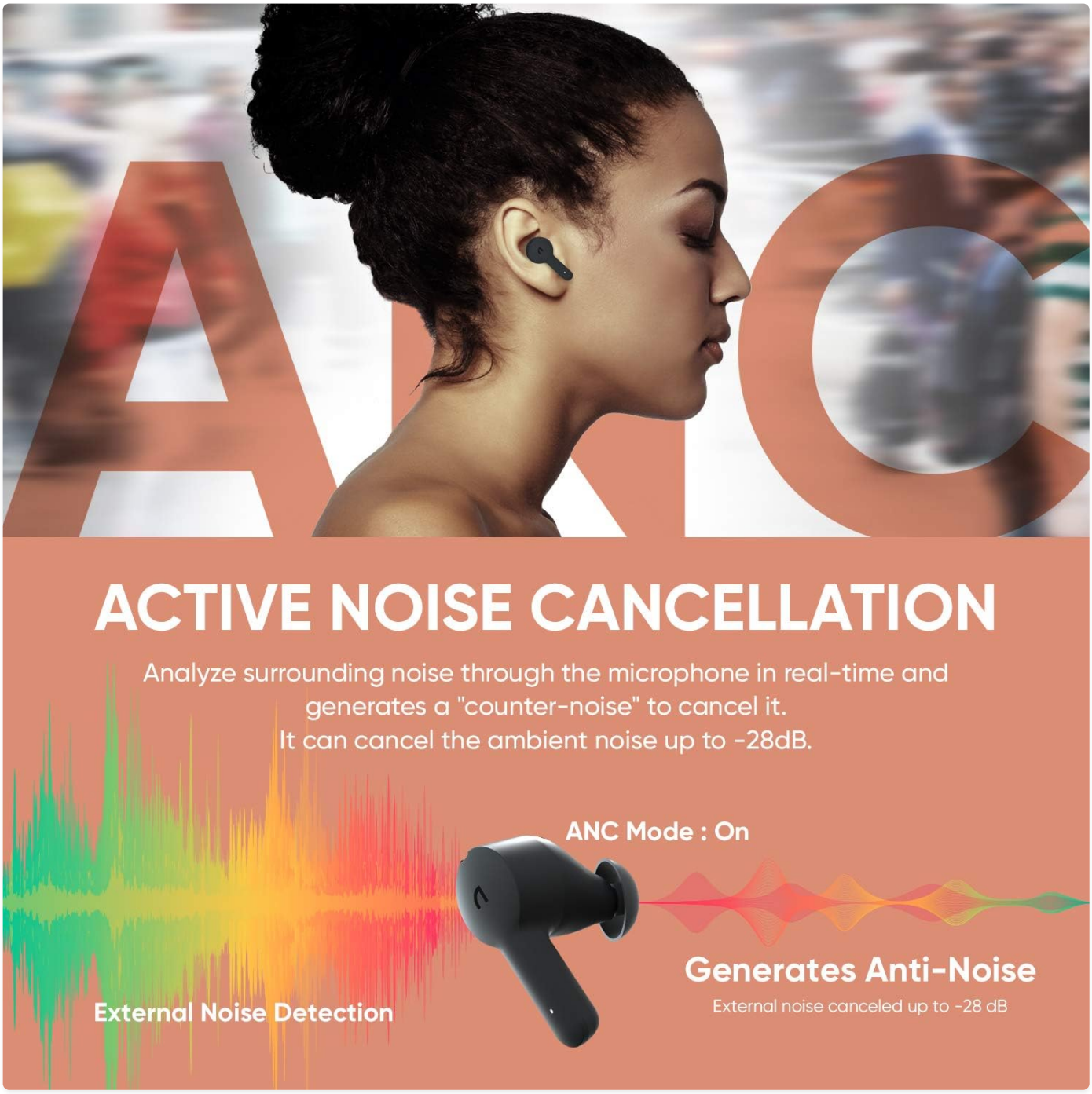


Image: Visual representation of the Active Noise Cancellation feature, showing how external noise is detected and counter-noise is generated to cancel it.

Transparency Mode

Activate Transparency Mode by touching the button on the left earbud for 1.5 seconds. This mode allows you to hear your surroundings without removing the earbuds, which is useful for interacting with people or being aware of traffic.

Image: Two individuals interacting while wearing the earbuds, illustrating the use of Transparency Mode to hear ambient sounds.

Clear Voice Calls

Each earbud is equipped with MEMS dual microphones. One microphone senses and cancels ambient noise, while the other picks up and isolates your voice, ensuring clear calls even in noisy environments.

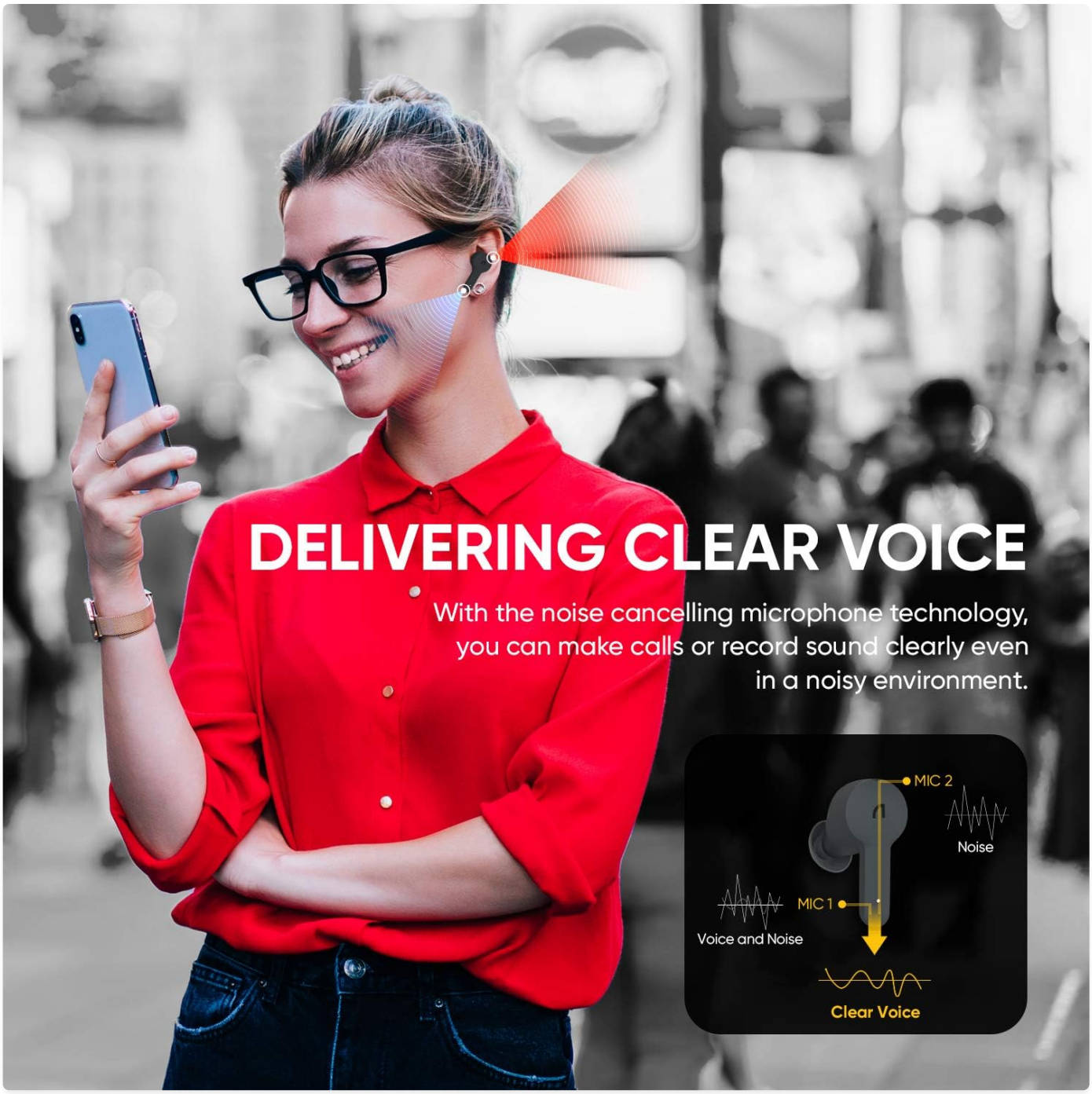


Image: A person on a phone call with the earbuds, showing the microphone noise cancelling technology at work to deliver clear voice.

Audio Quality

The EC10 earbuds feature a 10mm large dynamic driver for deep bass and support AAC/SBC codecs for high-quality audio decoding, providing well-balanced sound for all types of music.

Image: An exploded view of the earbud highlighting the 10mm large dynamic driver, emphasizing its role in delivering clear sound and rich bass.

Controls

The earbuds feature touch controls for media playback and call management. Refer to the quick start guide included in the box for specific touch commands.

Maintenance

Cleaning

Regularly clean your earbuds and charging case to maintain optimal performance and hygiene. Use a soft, dry, lint-free cloth. For ear tips, remove them and clean with mild soap and water, then dry thoroughly before reattaching.

Water Resistance (IPX5)

The EC10 earbuds are IPX5 waterproof, meaning they are resistant to sweat and light splashes of water. They are not designed for submersion in water. Ensure earbuds are dry before placing them back in the charging case.

Image: A person exercising with the earbuds, illustrating their resistance to rain and sweat due to IPX5 waterproof rating.

Troubleshooting

- **Earbuds not pairing/only one earbud working:**
  Ensure both earbuds are charged. Place both earbuds back into the charging case, close the lid, wait a few seconds, then open the lid again to re-initiate pairing. If issues persist, try resetting the earbuds (refer to the quick start guide for specific reset instructions).
- **No sound:**
  Check the volume level on your connected device. Ensure the earbuds are properly paired and connected. Try disconnecting and re-pairing the earbuds.
- **Charging issues:**
  Ensure the charging cable is securely connected and the power source is active. For wireless charging, ensure the case is correctly positioned on the charging pad. Clean the charging contacts on both the earbuds and the case.
- **Poor sound quality:**

Ensure the ear tips provide a good seal in your ear. Try different sized ear tips. Clean any debris from the earbud speakers. Move closer to your connected device to avoid interference.

Specifications

Model Name	EC10
Bluetooth Version	BT 5.0
Bluetooth Profile	HFP / HSP / A2DP / AVRCP
Frequency Response	20Hz – 20KHz
Charging Time (Cradle)	1.5 hours
Charging Time (Earbud)	1.5 hours
Playtime (ANC On)	4 hours
Playtime (ANC Off)	5 hours
Total Playtime (with Cradle)	Up to 20 hours
Cradle Battery Capacity	3.7V / 500mAh
Earbud Battery Capacity	3.7V / 55mAh
Operation Distance	10 M
Waterproof Rate	IPX5
Wireless Charging	Available
Control Type	Touch, Media Control
Audio Driver Type	Dynamic Driver

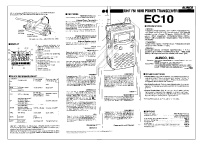
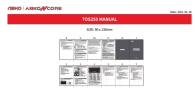
Warranty and Support

For warranty information and customer support, please refer to the warranty card included in your product packaging or visit the official ABKO website. Keep your proof of purchase for warranty claims.
Manufacturer: ABKO

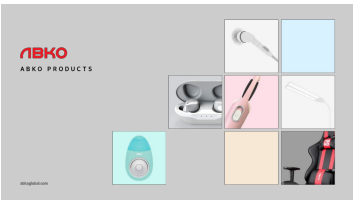
© 2024 ABKO. All rights reserved.

Related Documents - EC10

	FCC Compliance and Operating Guidelines for Shenzhen Qishun MLP-EC10 Wireless BT Headset This document outlines the FCC compliance standards for the Shenzhen Qishun MLP-EC10 Moods Wireless BT Headset, including warnings, operating conditions, and measures to mitigate interference. It also provides product identification details.

	[Eddystone EC10 Transistorised Communication Receiver - Instruction Manual and Technical Data]() Detailed instruction manual and technical specifications for the Eddystone EC10 transistorised communication receiver, covering operation, installation, maintenance, circuit diagrams, and component lists.
	[ALINCO EC10 / DJ-S41 UHF FM Mini Power Transceiver User Manual]() Comprehensive guide for ALINCO EC10 and DJ-S41 series UHF FM Mini Power Transceivers, covering features, specifications, operation, and quick reference.
	[IntelliBridge Device Driver ED843 (Release A) for Mallinckrodt INOmax - Instructions for Use and Service Information]() Instructions for Use and Service Information for the Philips IntelliBridge Device Driver ED843 (Release A), designed for use with Mallinckrodt INOmax devices and IntelliVue patient monitors.
	[ABKO WKM810 Wireless Keyboard and Mouse Combo User Manual]() User manual for the ABKO WKM810 wireless keyboard and mouse combo, detailing setup, package contents, system requirements, FCC compliance, and warranty information.
	[ABKO TOS250 Multi-Device Wireless Keyboard User Manual]() Official user manual for the ABKO TOS250 Multi-Device Wireless Keyboard (Model: 2AWXK-TOS250). Provides setup, usage, and troubleshooting information.

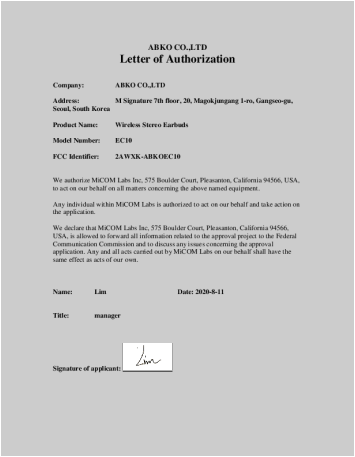
Documents - ABKO – EC10



[pdf] Borchure Catalog

A B K O P R D U C T S Tradeon We imagine At home at work in public places Anywhere your daily life As a piece of comfortable and enjoyable The way we will be seated ABKO catalogue 210311 tradeon kr fileDownload do div brochure idx 82 |||

ABKO PRODUCTS abkoglobal.com NEW LIFE PLATFORM Every day is more fun and convenient. Designing dai ... etooth Range 15 m Waterproof Rating IPX5 Color Black, White ABKO PRODUCT Sound Device **EC10** TRUE WIRELESS STEREO Model Frequency Response Working Distance Bluetooth ChipSet Bluetooth Ver... lang:en score:22 filesize: 14.7 M page_count: 81 document date: 2021-03-11



ABKO CO.,LTD
Letter of Authorization

Company: ABKO CO.,LTD

Address: M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, South Korea

Product Name: Wireless Stereo Earbuds

Model Number: EC10

FCC Identifier: 2AWXK-ABKOEC10

We authorize MiCOM Labs Inc, 575 Boulder Court, Pleasanton, California 94566, USA, to act on our behalf on all matters concerning the above named equipment.

Any individual within MiCOM Labs is authorized to act on our behalf and take action on the application.

We declare that MiCOM Labs Inc, 575 Boulder Court, Pleasanton, California 94566, USA, is allowed to forward all information related to the approval project to the Federal Communication Commission and to discuss any issues concerning the approval application. Any and all acts carried out by MiCOM Labs on our behalf shall have the same effect as acts of our own.

Name: Lim Date: 2020-8-11

Title: manager

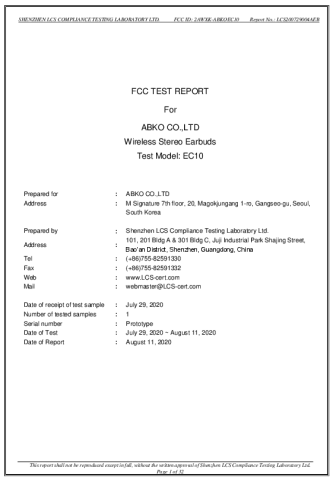
Signature of applicant:

[pdf]

PLEASE PRINT ON COMPANY LETTERHEAD MiCOM Labs Inc QMS Letter of Authorization ABKO CO LTD ABKOEC10 Wireless Stereo Earbuds 2AWXK 2AWXKABKOEC10 abkoec10

ABKO CO.,LTD Letter of Authorization Company: ABKO CO.,LTD Address: M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, South Korea Product Name: Wireless Stereo Earbuds Model Number: **EC10** FCC Identifier: 2AWXK-ABKO**EC10** We authorize MiCOM Labs Inc, 575 Boulder Court, Pleasanton...

lang:en score:22 filesize: 10.85 K page_count: 1 document date: 2020-08-18



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AWXK-ABKOEC10 Report No.: LCS200729004AEB

FCC TEST REPORT
For
ABKO CO.,LTD
Wireless Stereo Earbuds
Test Model: EC10

Prepared for : ABKO CO.,LTD
Address : M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, South Korea

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : July 29, 2020
Number of tested samples : 1
Serial number : Prototype
Date of Test : July 29, 2020 ~ August 11, 2020
Date of Report : August 11, 2020

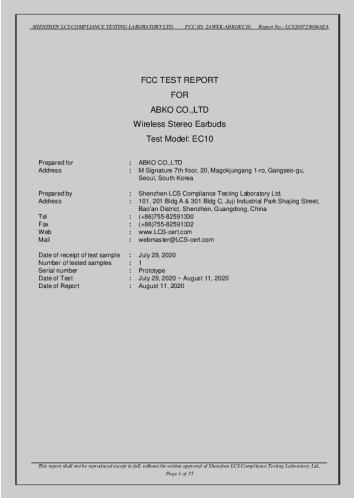
This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.
Page 1 of 32

[pdf] Test Report

FCC PART 15 news LCS200729004AEB report DTS ABKO CO LTD ABKOEC10 Wireless Stereo Earbuds 2AWXK 2AWXKABKOEC10 abkoec10

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AWXK-ABKO**EC10** Report No.: LCS200729004AEB FCC TEST REPORT For ABKO CO.,LTD Wireless Stereo Earbuds Test Model: **EC10** Prepared for Address : ABKO CO.,LTD : M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, South Korea Prepared...

lang:en score:21 filesize: 1.27 M page_count: 32 document date: 2020-11-09



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AWXK-ABKOEC10 Report No.: LCS200729004AEA

FCC TEST REPORT
FOR
ABKO CO.,LTD
Wireless Stereo Earbuds
Test Model: EC10

Prepared for : ABKO CO.,LTD
Address : M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, South Korea

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : July 29, 2020
Number of tested samples : 1
Serial number : Prototype
Date of Test : July 29, 2020 ~ August 11, 2020
Date of Report : August 11, 2020

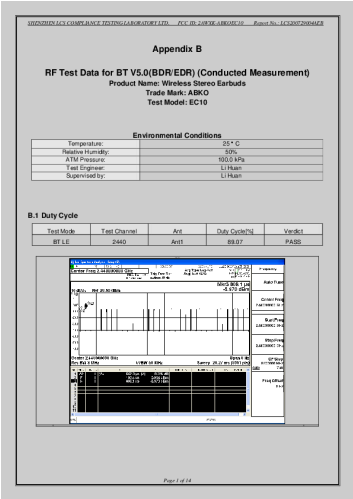
This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.
Page 1 of 35

[pdf] Test Report

Shenzhen Sunspring Electronics Co Ltd Keyboard OJWCG107C Violet Wang LCS200729004AEA report DSS ABKO CO LTD ABKOEC10 Wireless Stereo Earbuds 2AWXK 2AWXKABKOEC10 abkoec10

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AWXK-ABKO**EC10** Report No.: LCS200729004AEA FCC TEST REPORT FOR ABKO CO.,LTD Wireless Stereo Earbuds Test Model: **EC10** Prepared for Address : ABKO CO.,LTD : M Signature 7th floor, 20, Magokjungang 1-ro, Gangseo-gu, Seoul, South Korea Prepared...

lang:en score:20 filesize: 1.26 M page_count: 35 document date: 2020-11-09



Appendix B

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)
Product Name: Wireless Stereo Earbuds
Trade Mark: ABKO
Test Model: EC10

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Li Huan

B.1 Duty Cycle

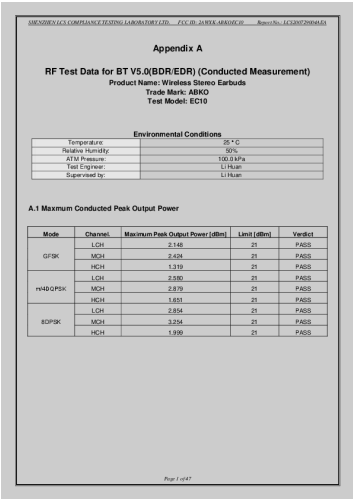
Test Mode	Test Channel	Ant	Duty Cycle(%)	Verdict
BT LE	2440	Ant1	89.07	PASS

[pdf]

HD 271 S1 Sheek Luo RF test data appendix B for BLE DTS ABKO CO LTD ABKOEC10 Wireless Stereo Earbuds 2AWXK 2AWXKABKOEC10 abkoec10

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AWXK-ABKO**EC10** Report No.: LCS200729004AEB Appendix B RF Test Data for BT V5.0 BDR/EDR Conducted Measurement Product Name: Wireless Stereo Earbuds Trade Mark: ABKO Test Model: **EC10** Temperature: Relative Humidity: ATM Pressure: Test Engineer...

lang:en score:19 filesize: 980.94 K page_count: 14 document date: 2020-08-18



Appendix A

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)
Product Name: Wireless Stereo Earbuds
Trade Mark: ABKO
Test Model: EC10

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Li Huan

A.1 Maxmum Conducted Peak Output Power

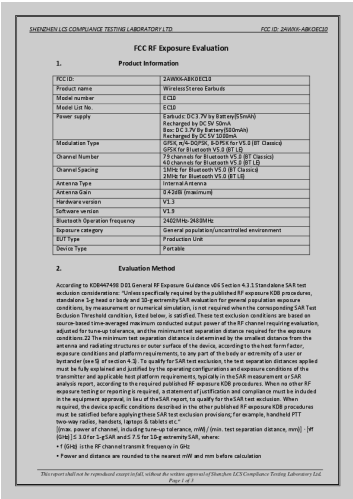
Mode	Channel	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.148	21	PASS
	MCH	2.424	21	PASS
	HCH	1.319	21	PASS
π/4DQPSK	LCH	2.590	21	PASS
	MCH	2.879	21	PASS
	HCH	1.651	21	PASS
8DPSK	LCH	2.854	21	PASS
	MCH	3.254	21	PASS
	HCH	1.999	21	PASS

[pdf]

HD 271 S1 Sheek Luo RF test data appendix A for BT5 0 DSS ABKO CO LTD ABKOEC10 Wireless Stereo Earbuds 2AWXK 2AWXKABKOEC10 abkoec10

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AWXK-ABKO**EC10** Report No.: LCS200729004AEA Appendix A RF Test Data for BT V5.0 BDR/EDR Conducted Measurement Product Name: Wireless Stereo Earbuds Trade Mark: ABKO Test Model: **EC10** Temperature: Relative Humidity: ATM Pressure: Test Engineer...

lang:de score:17 filesize: 3.38 M page_count: 47 document date: 2020-11-09



FCC RF Exposure Evaluation

1. Product Information

FCC ID:	2AWXK-ABKOEC10
Product name	Wireless Stereo Earbuds
Model number	EC10
Model List No.	EC10
Power supply	Earbuds: DC 3.7V by Battery(55mAh) Recharged by DC 5V 50mA Box: DC 3.7V By Battery(500mAh) Recharged by DC 5V 100mA
Modulation Type	GFSK, π/4-DQPSK, 8-DPSK for V5.0 (BT Classic) GFSK for Bluetooth V5.0 (BT LE)
Channel Number	79 channels for Bluetooth V5.0 (BT Classic) 40 channels for Bluetooth V5.0 (BT LE)
Channel Spacing	1MHz for Bluetooth V5.0 (BT Classic) 2MHz for Bluetooth V5.0 (BT LE)
Antenna Type	Internal Antenna
Antenna Gain	0.42dBi (maximum)
Hardware version	V1.3
Software version	V1.3
Bluetooth Operation Frequency	2402MHz-2480MHz
Exposure category	General population/uncontrolled environment
EUT Type	Production Unit
Device Type	Portable

2. Evaluation Method

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. 22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see § of section 4.3). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device-specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f (GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:
• f (GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm before calculation

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.
Page 1 of 3

[pdf] SAR Rating

User RF exposure ABKO CO LTD ABKOEC10 Wireless Stereo Earbuds 2AWXK 2AWXKABKOEC10 abkoec10

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AWXK-ABKO**EC10** FCC RF Exposure Evaluation 1. Product Information FCC ID: Product name Model number Model List No. Power supply Modulation Type Channel Number Channel Spacing Antenna Type Antenna Gain Hardware version Software version Bluet...

lang:en score:10 filesize: 463.16 K page_count: 3 document date: 2020-09-29