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Questyle CMA18P

Questyle CMA18 Portable Headphone Amplifier

USER MANUAL

1. Introduction

The Questyle CMA18 Portable is a high-resolution portable DAC and headphone amplifier designed to deliver exceptional audio performance for smartphones, PCs, and laptops. It integrates advanced audio technologies to provide a desktop-grade listening experience in a compact form factor. This manual provides detailed instructions for the proper use, setup, and maintenance of your CMA18 Portable.

2. What's in the Box

Please verify that all items are present in the package:

- Questyle CMA18 Portable Headphone Amplifier
- USB-C to USB-C Cable
- USB-C to Lightning Cable
- USB-C to USB-A Adapter
- User Manual (this document)

3. Product Overview

The CMA18 Portable features a robust design with sandblasted aviation-grade aluminum surfaces, silver high-gloss buttons, and custom Corning glass panels. Its internal amber-colored LEDs illuminate the circuitry, highlighting the device's sophisticated engineering.

Figure 3.1: Front and back view of the Questyle CMA18 Portable, showcasing its transparent glass panel revealing internal components.

Equipped with the latest XMOS XU316 platform and AK4493 DAC chip, the CMA18 Portable supports high-resolution audio up to PCM768/DSD512. It incorporates four sets of self-developed current-mode PCT patented SiP chips (CC630/CA630) for optimal thrust and low power consumption.

Figure 3.2: The CMA18 Portable connected to a smartphone, demonstrating its use as an external audio device.

The device offers both 3.5mm and 4.4mm headphone outputs and features high/low gain mode switching to accommodate various headphones and in-ear monitors (IEMs).

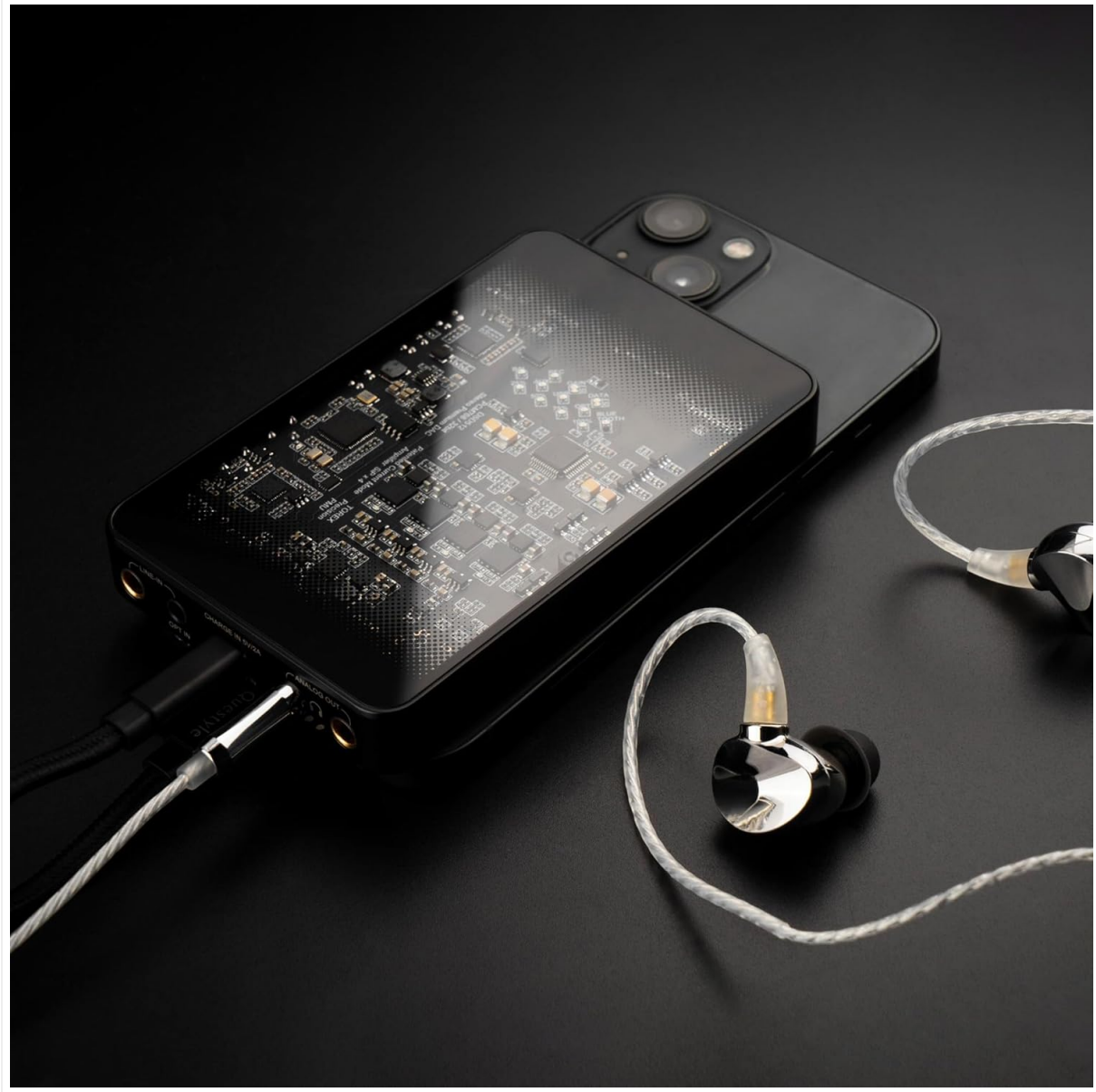

Figure 3.3: The CMA18 Portable connected to in-ear monitors, highlighting its compatibility with different audio devices.

Product Features:

- **Portable Size, Desktop Performance:** Designed for high-fidelity audio on the go.
- **Advanced DAC Chip:** XMOS XU316 USB chip and AK4493 DAC support PCM768/DSD512.
- **Current-Mode Amplification:** Four sets of patented SiP chips (CC630/CA630) for powerful and efficient audio output.
- **High-Resolution Wireless:** Supports aptX HD and LDAC Bluetooth codecs for optimal wireless sound quality.
- **Analog Input Recording:** Features 3.5mm (AUX IN) and 4.4mm (BAL IN) inputs for external audio equipment, capable of lossless analog-to-digital conversion.

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Video 3.1: An overview of the Questyle CMA18 Portable Headphone DAC Amplifier, showcasing its design, features, and connectivity options.

4. Setup

4.1 Initial Charging

Before first use, fully charge the CMA18 Portable. Connect the device to a 5V/2A USB power adapter (not included) using the provided USB-C cable. The charging indicator LEDs will show the battery status.

4.2 Connecting to Devices

1. **For Smartphones/Tablets:** Use the appropriate USB-C to USB-C or USB-C to Lightning cable to connect your device to the CMA18 Portable's USB DAC IN port. Ensure your smartphone supports USB audio output.
2. **For PCs/Laptops:** Connect the CMA18 Portable to your computer's USB port using the provided USB-C to USB-A cable or USB-C to USB-C cable. Install any necessary drivers if prompted by your operating system (typically plug-and-play for most modern OS).
3. **For Analog Sources:** Use a 3.5mm or 4.4mm audio cable to connect your analog audio source (e.g., turntable, pre-amp) to the corresponding AUX IN or BAL IN port on the CMA18 Portable.

5. Operating Instructions

5.1 Power On/Off

Press and hold the Power button on the side of the device for approximately 3 seconds to power on or power off the CMA18 Portable.

5.2 Input Selection

Press the Function button to cycle through the available input modes: USB, Optical (OPT IN), Bluetooth (BLUETOOTH), 3.5mm Analog Input (AUX IN), and 4.4mm Balanced Analog Input (BAL IN). The corresponding indicator LED will light up.

5.3 Gain Settings

The CMA18 Portable features a gain switch (HIGH/STD) to optimize output for different headphones. Use the 'HIGH' setting for high-impedance or less sensitive headphones, and 'STD' (Standard) for sensitive IEMs or low-impedance headphones. Adjust based on your headphone's requirements and desired volume level.

5.4 Volume Control

Use the '+' and '-' buttons on the side of the device to adjust the output volume. Adjust the volume gradually to prevent sudden loud sounds.

5.5 Bluetooth Pairing

1. Switch the input mode to Bluetooth.
2. The Bluetooth indicator LED will blink, indicating pairing mode.
3. On your source device (smartphone, tablet), search for Bluetooth devices and select "Questyle CMA18 Portable" to pair.
4. Once paired, the Bluetooth indicator LED will remain solid.

5.6 Analog Input Recording Function

The CMA18 Portable can function as an external, lossless, high-performance Analog-to-Digital Converter (ADC) for its 3.5mm (AUX IN) and 4.4mm (BAL IN) inputs. Connect your analog source to the desired input. When connected to a computer via USB, the CMA18 Portable will appear as an audio input device, allowing you to record the analog signal. You can simultaneously monitor the input via the 3.5mm or 4.4mm headphone outputs.

6. Maintenance

6.1 Cleaning

Wipe the device with a soft, dry, lint-free cloth. Do not use abrasive cleaners, solvents, or chemical sprays. Avoid getting moisture into any openings.

6.2 Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the device for an extended period, charge it to approximately 50% before storage. Recharge every few months to prevent deep discharge.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound output	Incorrect input selected; Volume too low; Headphones not connected properly; Source device issue.	Verify input mode; Increase volume; Ensure headphones are fully plugged in; Check audio settings on source device.
Bluetooth pairing fails	Device not in pairing mode; Source device too far; Interference.	Ensure CMA18 is in Bluetooth pairing mode (blinking LED); Move source device closer; Restart both devices.
Sound distortion or noise	Gain setting too high for sensitive headphones; Poor cable connection; Source audio quality.	Switch to 'STD' gain mode; Check and re-seat all cables; Use high-quality audio files.
Device not recognized by PC/Laptop	Incorrect USB cable; Driver issue; USB port issue.	Ensure data-capable USB cable is used; Try a different USB port; Check device manager for driver status.
Battery drains quickly	High volume usage; Old battery; Background processes.	Reduce volume; Ensure device is powered off when not in use; Contact support if battery life significantly degrades.

8. Specifications

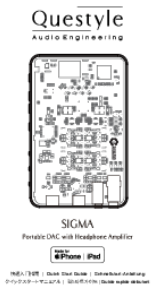
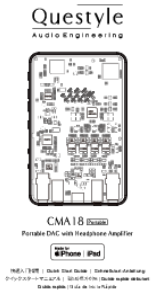
Feature	Detail
Model Name	CMA18 Portable
Headphones Jack	3.5mm & 4.4mm
Connectivity Technology	Wireless, Wired (Bluetooth, USB, Optical, Analog)
Wireless Communication Technology	Bluetooth 5.0 (aptX HD, LDAC)
Frequency Range (PCM)	Up to 768 kHz
Max Output Power (BAL)	1000mW@32Ω
THD+N	<0.0003%@20mW, 300Ω

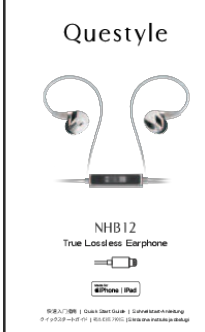
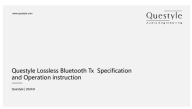
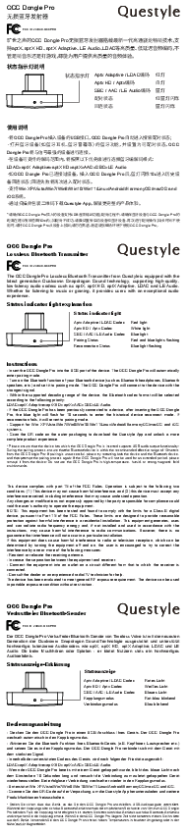
Feature	Detail
SNR	>120dB
Battery Life	>10 Hours
Charging Time	3.5 Hours
Product Dimensions	4.33 x 2.75 x 0.59 inches
Item Weight	1.23 pounds
Material	Aluminum
Manufacturer	Questyle

9. Warranty and Support

The Questyle CMA18 Portable comes with a standard manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Questyle website. Keep your proof of purchase for warranty claims.

Related Documents - CMA18P

	Questyle SIGMA Portable DAC with Headphone Amplifier - User Guide Comprehensive guide to the Questyle SIGMA, a portable DAC and headphone amplifier featuring high-resolution audio, multiple input options, and advanced amplification circuits. Learn about its features, components, controls, and specifications.
	Questyle CMA18 Portable DAC with Headphone Amplifier - Quick Start Guide Explore the Questyle CMA18 Portable, a high-performance portable DAC and headphone amplifier. This guide covers its features, connectivity, operation, and specifications for an exceptional audio experience.
	Questyle CMA Fifteen: User Manual for DAC and Headphone Amplifier Explore the Questyle CMA Fifteen, a premium DAC and Headphone Amplifier. This user manual covers setup, features, digital and analog inputs, Bluetooth connectivity, MQA support, specifications, and important cautions for optimal audio performance.

	[Questyle NHB12 True Lossless Earphones - User Guide] Comprehensive guide for the Questyle NHB12 True Lossless Earphones, detailing features, setup, wearing instructions, and usage with various devices. Includes MFi certification, Hi-Res audio support, and interchangeable cable options.
	[Questyle QCC Dongle: Lossless Bluetooth Transmitter Specification & Operation] Questyle QCC Dongle is a MFi certified, lossless Bluetooth audio transmitter utilizing the Qualcomm QCC3086 chip for high-quality, low-latency wireless audio transmission. Supports aptX Adaptive, aptX HD, and broad device compatibility.
	[QCC Dongle Pro: Lossless Bluetooth Transmitter with Snapdragon Sound] Discover the QCC Dongle Pro, a lossless Bluetooth transmitter by Questyle featuring Qualcomm Snapdragon Sound. Enjoy high-quality, low-latency audio with support for aptX, aptX HD, aptX Adaptive, LDAC, and LE Audio for music and gaming.

Documents - Questyle – CMA18P

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CMA18P CMA M Home CMA **CMA18P** NHB Solution Product Support 04-10-2023, 09:17 About Questyle **CMA18P** Questy Inquire Now PortableDACwihHeadphon CMASiP DSD https://www.questyle.com/cma/cma-18p.html Page 1 of 6 **CMA18P** 04-10-2023, 09:17 https://www.questyle.com/cma/cma-18p.html Page 2...

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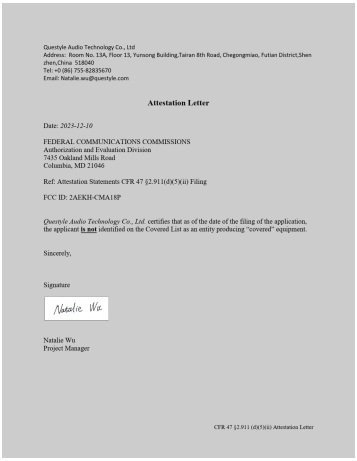

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Rachel Chen Attestation Statements2 Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

Questyle Audio Technology Co., Ltd Address: Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road ... lls Road Columbia, MD 21046 Ref: Attestation Statements CFR 47 2.911 d 5 ii Filing FCC ID: 2AEKH-**CMA18P** Questyle Audio Technology Co., Ltd. certifies that as of the date of the filing of the applic...

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[pdf]

Rachel Chen Attestation Statements1 Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

Questyle Audio Technology Co., Ltd Address: Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road ... ills Road Columbia, MD 21046 Ref: Attestation Statements CFR 47 2.911 d 5 i Filing FCC ID: 2AEKH-**CMA18P** Questyle Audio Technology Co., Ltd. certifies that the equipment for which authorization is s...

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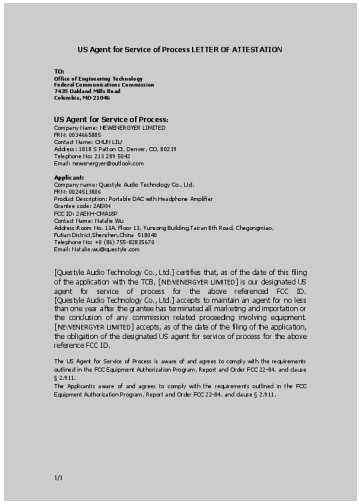

US Agent for Service of Process LETTER OF ATTESTATION

TO:
Office of Engineering Technology
Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046

US Agent for Service of Process:
Company Name: NEWENERGYER LIMITED
FRN: 0034653885
Contact Name: CHUFI LIU
Address : 1818 S Patton Ct, Denver, CO, 80219
Telephone No: 213 289 5942
Email: newenergyer@outlook.com

Applicant:
Company name: Questyle Audio Technology Co., Ltd.
FRN: 0024513806
Product Description: Portable DAC with Headphone Amplifier
Grantee code: 2AEKH
FCC ID: 2AEKH-CMA18P
Contact Name: Natalie Wu
Address:Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road, Chegongmiao, Futian District,Shenzhen,China 518040
Telephone No: +0 (86) 755-82835670
Email: Natalie.wu@questyle.com

[Questyle Audio Technology Co., Ltd.] certifies that, as of the date of this filing of the application with the TCB, [NEWENERGYER LIMITED] is our designated US agent for service of process for the above referenced FCC ID. [Questyle Audio Technology Co., Ltd.] accepts to maintain an agent for no less than one year after the grantee has terminated all marketing and importation or the conclusion of any commission related proceeding involving equipment. [NEWENERGYER LIMITED] accepts, as of the date of the filing of the application, the obligation of the designated US agent for service of process for the above reference FCC ID.

The US Agent for Service of Process is aware of and agrees to comply with the requirements outlined in the FCC Equipment Authorization Program, Report and Order FCC 22-84, and clause § 2.911.
The Applicant is aware of and agrees to comply with the requirements outlined in the FCC Equipment Authorization Program, Report and Order FCC 22-84, and clause § 2.911.

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Adria Galin Pons Applus US agent Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

US Agent for Service of Process LETTER OF ATTESTATION TO: Office of Engineering Technology Federal C ... 513806 Product Description: Portable DAC with Headphone Amplifier Grantee code: 2AEKH FCC ID: 2AEKH-**CMA18P** Contact Name: Natalie Wu Address:Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road, Ch...

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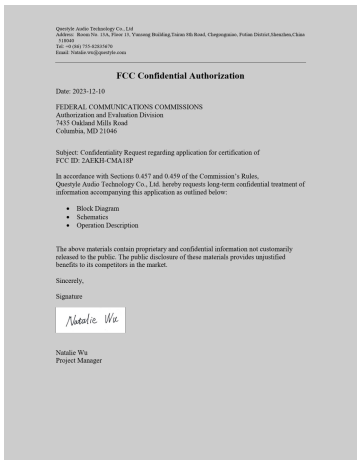

Questyle Audio Technology Co., Ltd
Address: Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road, Chegongmiao, Futian District,Shenzhen,China 518040
Tel: +0 (86) 755-82835670
Email: Natalie.wu@questyle.com

FCC Confidential Authorization

Date: 2023-12-10

FEDERAL COMMUNICATIONS COMMISSIONS
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Confidentiality Request regarding application for certification of
FCC ID: 2AEKH-CMA18P

In accordance with Sections 0.457 and 0.459 of the Commission's Rules,
Questyle Audio Technology Co., Ltd. hereby requests long-term confidential treatment of
information accompanying this application as outlined below:

- Block Diagram
- Schematics
- Operation Description

The above materials contain proprietary and confidential information not customarily released to the public. The public disclosure of these materials provides unjustified benefits to its competitors in the market.

Sincerely,

Signature

Natalie Wu

Natalie Wu
Project Manager

[pdf] Confidentiality Request Letter

Note Please print this letter with your company s paper Microsoft Long term Confidentiality Letter Questyle Audio Technology Co Ltd CMA18P Portable DAC Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

Questyle Audio Technology Co., Ltd Address: Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road ... MD 21046 Subject: Confidentiality Request regarding application for certification of FCC ID: 2AEKH-**CMA18P** In accordance with Sections 0.457 and 0.459 of the Commission s Rules, Questyle Audio Technol...

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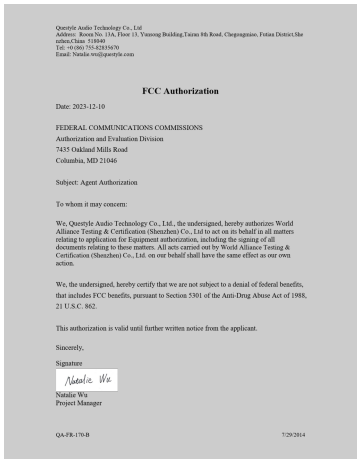

Questyle Audio Technology Co., Ltd
Address: Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road, Chegongmiao, Futian District,Shenzhen,China 518040
Tel: +0 (86) 755-82835670
Email: Natalie.wu@questyle.com

FCC Authorization

Date: 2023-12-10

FEDERAL COMMUNICATIONS COMMISSIONS
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046

Subject: Agent Authorization

To whom it may concern:

We, Questyle Audio Technology Co., Ltd., the undersigned, hereby authorizes World Alliance Testing & Certification (Shenzhen) Co., Ltd to act on its behalf in all matters relating to application for Equipment authorization, including the signing of all documents relating to these matters. All acts carried out by World Alliance Testing & Certification (Shenzhen) Co., Ltd. on our behalf shall have the same effect as our own action.

We, the undersigned, hereby certify that we are not subject to a denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

This authorization is valid until further written notice from the applicant.

Sincerely,

Signature

Natalie Wu

Natalie Wu
Project Manager

QA-FR-170-B 7/29/2014

[pdf] Agent Authorization

Note Please print this letter with your company s paper Agent Authorization Questyle Audio Technology Co Ltd CMA18P Portable DAC Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

Questyle Audio Technology Co., Ltd Address: Room No. 13A, Floor 13, Yunsong Building,Tairan 8th Road, Chegongmiao, Futian District,She nzhen,China 518040 Tel: 0 86 755-82835670 Email: Natalie.wu questyle.com Date: 2023-12-10 FCC Authorization FEDERAL COMMUNICATIONS COMMISSIONS Authorization an...

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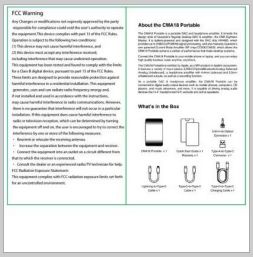

[pdf] User Manual

Users Manual Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

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[pdf] Product Photos

External Photos Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

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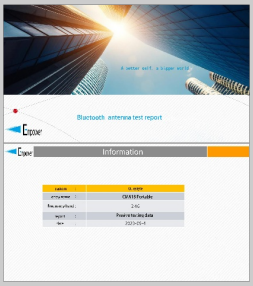

[pdf] Test Report

ATN Test Report Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

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[pdf] Label

ID Label Location Info Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

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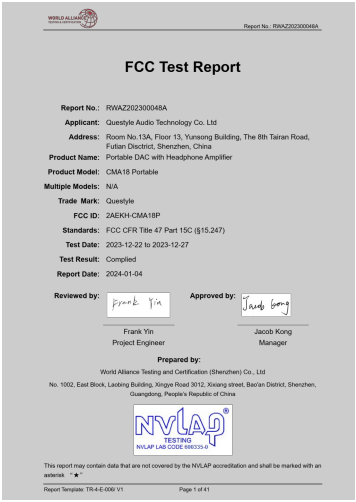
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FCC Test Report

Report No.:	RWAZ202300048A
Applicant:	Questyle Audio Technology Co. Ltd
Address:	Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road, Futian Disctrict, Shenzhen, China
Product Name:	Portable DAC with Headphone Amplifier
Product Model:	CMA18 Portable
Multiple Models:	N/A
Trade Mark:	Questyle
FCC ID:	2AEKH-CMA18P
Standards:	FCC CFR Title 47 Part 15C (§15.247)
Test Date:	2023-12-22 to 2023-12-27
Test Result:	Complied
Report Date:	2024-01-04

Reviewed by: Frank Yin, Project Engineer

Approved by: Jacob Kong, Manager

Prepared by:

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

NVLAP TESTING NVLAP LAB CODE 886335-0

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Report Template: TR-4-E-006/ V1 Page 1 of 41

[pdf] Test Report

2 Laptop Microsoft Test Report Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

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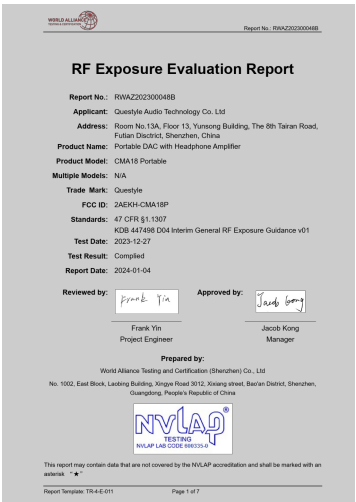
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RF Exposure Evaluation Report

Report No.:	RWAZ202300048B
Applicant:	Questyle Audio Technology Co. Ltd
Address:	Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road, Futian Disctrict, Shenzhen, China
Product Name:	Portable DAC with Headphone Amplifier
Product Model:	CMA18 Portable
Multiple Models:	N/A
Trade Mark:	Questyle
FCC ID:	2AEKH-CMA18P
Standards:	47 CFR §1.1307 KDB 447498 D04 Interim General RF Exposure Guidance v01
Test Date:	2023-12-27
Test Result:	Complied
Report Date:	2024-01-04

Reviewed by: Frank Yin, Project Engineer

Approved by: Jacob Kong, Manager

Prepared by:

World Alliance Testing and Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

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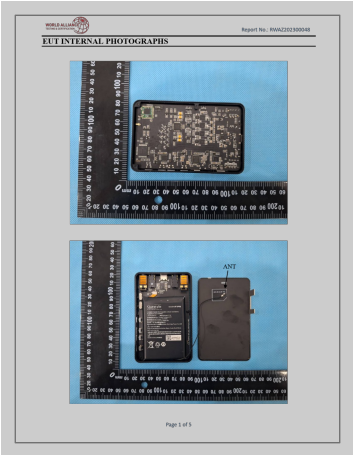

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2 jacob kong Microsoft Internal Photos Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

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13 jacob kong Microsoft Test Setup Photos Questyle Audio Technology Co Ltd CMA18P Portable DAC with Headphone Amplifier 2AEKH 2AEKHCMA18P cma18p

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