⬦CLARUS

CODA

**ULTRA-HIGH PERFORMANCE USB-DAC
WITH HEADPHONE AMPLIFIER**

CONGRATULATIONS AND THANK YOU FOR PURCHASING THE CLARUS CODA!

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IMPORTANT SAFETY INSTRUCTIONS

Your Clarus CODA represents the latest in USB-DAC technology. However, like any electronic device, if inappropriately or improperly installed it may not perform as intended. By following a few common sense precautions, your Clarus CODA will give you years of worry-free performance.

Warning:
To reduce the risk of fire or electric shock, do not expose the Clarus CODA to rain or moisture.

Unplug this apparatus during lightning storms or when not in use for long periods of time.

Care of Equipment:
In general, the only cleaning necessary for your Clarus CODA is a light dusting. Do not use any type of liquid or aerosol cleaners.

Repair of Equipment:
No User Serviceable Parts Inside. If, for any reason, your Clarus CODA is not operating properly, do not attempt to repair. Unplug the unit and consult this owner's manual for warranty information.

INTRODUCTION AND PRODUCT OVERVIEW

A "Coda" is defined as a concluding musical passage that brings a sense of completeness to the music. The Clarus CODA is an ultra-high performance USB-DAC amplifier designed to be used with smartphone, tablet or computer. A DAC converts a digital audio signal to analog audio and the amplifier sends the signal to your headphones or your home audio system. The problem with computers and mobile devices is they don't typically have very good DACs and the amplifiers are usually too weak to drive high performance headphones leaving audio dull and dampened. The CODA by-passes the internal DAC/AMP and delivers audiophile quality sound that has more detail, greater dynamics with ultra-low distortion and provides a bigger sound stage that essentially brings a sense of completeness to your music.

PRODUCT CONNECTIONS & CONTROLS

Volume Up

Volume Down

USB-A

+   −

CLARUS

3.5mm Jack

LED Indicator Light

CODA'S TECHNOLOGY

The heart of the Clarus CODA is a New Legendary ESS Professional Series SABRE® DAC audio converter with Hyperstream® II modulation. The new SABRE® DAC provides previously unheard sound stage and clarity. QUAD DAC™ Technology delivers superb 124dB DNR and -112dB THD+N for the ultimate in sound quality with a stable sound field. The low-power USB controller supports USB 1.1 and 2.0 and can natively handle 32-bit 384 kHz PCM and DSD up to 5.6MHz. The CODA's class G headphone amplifier provides class AB performance with ultra-low power consumption optimized for mobile use. The 2.0Vrms output voltage will provide plenty of power for the most demanding headphones and class G ensures it won't drain your battery.

The CODA is an MQA renderer. MQA stands for Master Quality Authenticated. MQA is an award-winning British technology that delivers the sound of the original recording. Traditional encoding discards music information to reduce size. MQA is fully authenticated in the studio and then folds the music file small enough to stream or download. MQA calls this folding "Music Origami". When the CODA is paired with a MQA Core Decoder (available streaming with Tidal, Nugs and Xiami or when used with media players like Audirvana and Roon); the CODA's renderer will automatically detect the MQA stream and engage the rendering process to complete the final unfold unlocking the full studio experience.

Visit mqa.co.uk for more information.

CODA'S FEATURES

Volume Control
The CODA supports HID (Human Interface Design) volume control via the side panel buttons; (+) for volume up and (-) for volume down. CODA's volume control is capable of 64 steps depending on the volume rate setting of the device it is controlling. There is zero switching noise during volume control.

LED Indicator Lights
CODA's LED Indicator lights up in different colors to indicate the audio sample rate. The sample rate is how many times per second a piece of music is sampled during the recording. Higher sample rates mean higher quality in the recording.

The CODA's LED:

Blue	Idle and Standard Definition	$\leq$ 48kHz
Green	High Definition	> 48kHz
Magenta	Master Quality Authenticated	MQA

Three User Selectable Digital Filters
The CODA lets you select from one of three digital filters. You can hear these features by ear; just select whichever one sounds best to you. To activate filter mode follow these steps:

Enable Filter Programing Mode:
Press volume (+) for 5 seconds; LED starts blinking the color of the current filter. During the programing mode the volume controls will be deactivated.

Toggle through Three Filters:

Blue	Linear Phase Fast Roll-Off
Green	Minimum Phase Slow Roll-Off
Magenta	Hybrid Fast Roll-off

The filter setting is stored and will be loaded the next time you power-up your CODA.

Exit Programming Mode:
Press the volume (+) button to exit the programming mode. The LED will stop blinking and CODA returns its normal LED display. The volume controls will be active again.
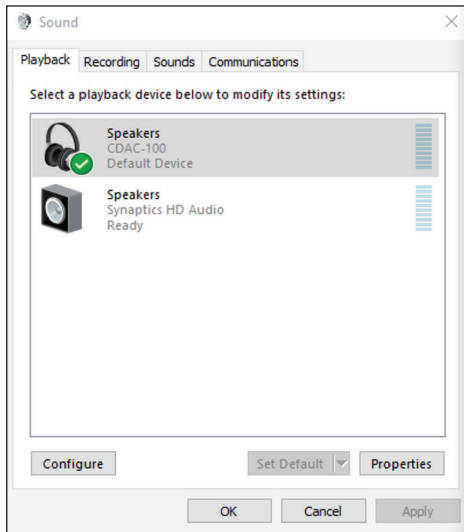
INSTALLATION

The Clarus CODA is simple and intuitive to use. There are no drivers to download and install. CODA is compatible with Android, iOS*, MacOS and Windows 7-10.
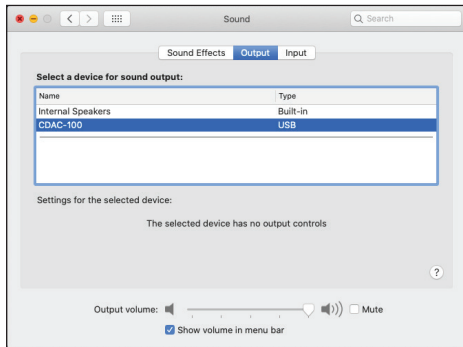
iOS requires a Lightning to USB Camera Adapter

CODA Setup: WINDOWS 7 & 10
Plug a set of headphones into the CODA and insert the CODA into a USB-A drive. In the Search type: Control Panel. In Control Panel select: Hardware and Sound. Select Sound. Click on Playback tab. Select the CODA model: CDAC-100. Set as Default. OK.
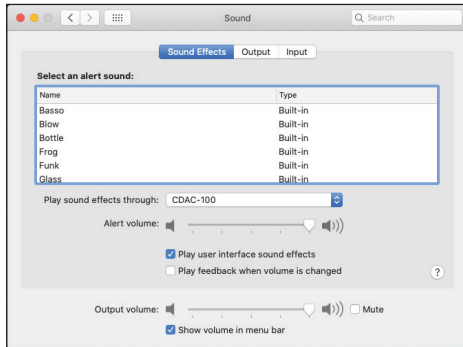
CODA Setup: Apple OS
Plug a set of headphones into the CODA and insert the CODA into a USB-A
drive. Open System Preferences. Click on Sound/Output Tab: Select CODA model:
CDAC-100.

Click on Sound Effects Tab: Select Play sound effects through: CODA Model: CDAC-100. Close Window.

CODA Firmware Updates
The CODA's software is upgradeable. As technology changes Clarus will provide improvements for your CODA via firmware updates. You can download the Device Manager for free at: www.claruscable.com.

The CODA Device Manager is simple to use just install the CODA and click through the menu.

CODA'S FEATURES

Input	USB-A
Output	3.5mm (1/8") Stereo plug
Operating Systems	Windows 7-10, Apple MacOS, Android, iOS
DAC	ESS Pro Series SABRE® DAC
Amplifier	Class G Headphone Amplifier
Audio Formats	DSD, DoP, PCM, MQA,
MQA	Renderer
Max Resolution	32-bit (supports 16-bit & 24-bit)
Max Sample Rate	384 kHz (supports 4.1, 48, 88.2, 96, 176.2, 192, 352.4, Dop64 & Dop128)
SNR	120 dB
THD+N	-112 dB
Max Output Voltage	2.0 Vrms

Output Impedance	< 1 ohm
LED Indicators	Blue: ≤ 48 kHz (Standard Definition) Green: > 48kHz (High Definition) Magenta: MQA
3 Filters	Linear Phase, Fast-Roll-Off Minimum Phase, Slow Roll-Off Hybrid, Fast Roll-Off
Volume Control	Supports HID volume Control of Source
Adapter Cable	Female USB-A to Male USB-C 15cm
Zipper Case	4.3" (11mm) X 2.5" (6.5mm) X 1.5" (3.5mm) Inner pocket to hold CODA
Weight	24 grams (.8oz) with cap
Dimension	2.5" (69mm) x .9" (21mm) X .4" (11mm) with cap
Chassis	Aluminum

WARRANTY

This Warranty applies to products purchased and used in the United States of America. Products purchased or used outside the United States are subject to such warranties, if any, as are provided by the Clarus distributor in the respective countries.

Scope and Duration of Warranty
Subject to the terms and conditions stated below, Gordon J. Gow Technologies, Inc., ("Gow") warrants that this Product shall be free from defects in workmanship or materials for a term of one (1) year from the date when it was purchased from an Authorized Gow Dealer.

What Gow Will Do Under the Warranty
In the event of any defect covered by this warranty, Gow shall without charge provide all parts, materials, and labor necessary to restore the Product to its original specifications, and shall return the Product to its owner at Gow's expense. In the alternative, Gow may at its sole option either replace the Product without charge, or it replacement is not commercially practicable or repair or replacement cannot be accomplished within a reasonable time, Gow may refund the purchase price of the Product, subject where appropriate to reasonable depreciation for use in accordance with applicable laws, in full satisfaction of its warranty obligations. Gow will undertake to complete the repair and return of the Product as soon as circumstances permits, unless prevented by causes beyond its reasonable control.

Limitations of Gow's Obligations
GOW'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE THE PRODUCT, OR AT ITS OPTION REFUND THE PURCHASE PRICE, AS PROVIDED FOR HEREIN ABOVE. GOW DOES NOT WARRANT AGAINST, NOR SHALL IT BE LIABLE FOR, ANY OF THE FOLLOWING: REMOVAL OR INSTALLATION CHARGES: SHIPPING EXPENSES TO GOW OR ITS AUTHORIZED SERVICE FACILITY: PROPERTY DAMAGE OF ANY KIND: OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND.

Note: Some states do not allow exclusion or limitation of consequential damages, so the foregoing exclusion may not apply.

Exclusions: Parts and Occurrences That Are Not Covered by the Warranty
This Warranty does not cover any of the following: (A) glass panels, cabinetry, trim, or any other appearance items (except) where they are defective at the time of original sale and the Product is delivered for repair within the first thirty (30) days thereafter: (B) batteries, or failure of or damaged to the Product caused by batteries; (C) failures arising from catastrophe, misuse, neglect, or failure to properly connect an operate the Product in accordance with the accompanying instructions; (D) failures arising from improper installations of the Product or incompatibility of other components in the system of which the Product is a part; (E) failures of any kind in Products (I) which have been purchased from other than an Authorized Gow Dealer, or (II) which evidence any tampering, alteration, or attempted servicing by anyone other than Gow or an Authorized Gow Service Facility, or (III) which are not delivered or shipped to Gow or an Authorized Service Facility within the one (1) year Warranty term; and Gow shall have no liability or obligation of any kind with respect to any of the foregoing types of failures.

Owner's Responsibility Under This Warranty
To obtain service under this warranty, the owner must at the owner's expense (I) arrange for any necessary de-installation of the Product, and (II) return the Product to the Authorized Gow Dealer from which it was purchased. If return to the Authorized Gow Dealer is impracticable, the owner must deliver or ship the Product, properly packaged, prepaid, and insured, to Gow at the address below, or to an Authorized Gow Service Facility. In addition, the owner must provide evidence that the Product is at the time of delivery with the scope of this Warranty, by including the original or a legible copy of the dated sales receipt with the Product when submitted for repair. All Products must also be accompanied by the owner's name, address, and telephone number.

What the Owner Must Pay For
As noted above, the owner must arrange and pay any expense for removing the Product from its installation and delivering it to Gow or the Authorized Gow Service Facility. Upon return of the Product to the owner following repair, it shall be the owner's responsibility to arrange and pay for any reinstallation which may be required. In addition, it shall be the owner's obligation to pay for any repairs made to Products for which the owner has not included a legible copy or the original of the dated sales receipt with the Product when delivered for service, or which are otherwise subject to the exclusions noted above, at Gow's or its Authorized Service Facility's then current repair rates.

How to Learn Where the Nearest Authorized Gow Service Facility is, or Obtain Answers to Other Questions Concerning This Warranty

In order to learn the name and address of the nearest Authorized Gow Service Facility, obtain instructions for shipment of a covered Product to Gow, or obtain the answers to any other questions you may have concerning this Warranty, you may telephone Gow between the hours of 9:00a.m. and 5:00p.m. Eastern Time, Monday through Friday, at 1.888.554.2514, or write to Service Department, Gordon J. Gow Technologies, Inc. 6448 Pinecastle Blvd; Suite 101, Orlando, FL 32809, (Fax 1.800.553.1366).

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.