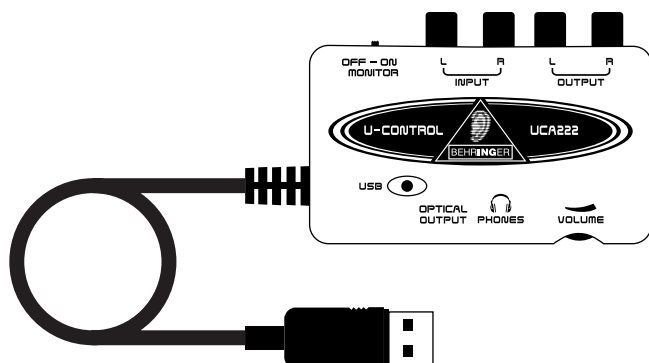# User Manual

U-CONTROL UCA222

Ultra-Low Latency 2 In/ 2 Out USB Audio Interface with Digital Output and Massive Software Bundle

Thank you

Thank you for choosing the UCA222 U-CONTROL audio interface. The UCA222 is a high-performance interface that includes a USB connector, making it an ideal sound card for your laptop computer or an essential recording/playback component for studio environments that involve desktop computers. The UCA222 is PC and Mac-compatible, therefore no separate installation procedure is required. Thanks to its robust construction and compact dimensions, the UCA222 is also ideal for traveling. The separate headphones output allows you to play back your recordings at any time, even if you don't happen to have any loudspeakers available. Two inputs and outputs as well as the S/PDIF output give you total connecting flexibility to mixing consoles, loudspeakers or headphones. Power is supplied to the unit via the USB interface and the LED gives you a quick check that the UCA222 is properly connected. The UCA222 is the ideal extra for every computer musician.

Table of Contents

This manual is available in English, German, French, Spanish, Italian, Russian, Polish, Dutch, Finnish, Swedish, Danish, Portugese, Greek, Japanese and Chinese. There may also be more current versions of this document. Download them by going to the appropriate product page at:

www.behringer.com

Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK!
DO NOT OPEN!

ATTENTION
RISQUE DE CHOC ELECTRIQUE!
NE PAS OUVRIR!

Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside; refer servicing to qualified personnel.

Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Caution

This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure—voltage that may be sufficient to constitute a risk of shock.
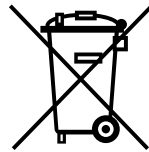
Caution

This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

Caution

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Only use attachments/accessories specified by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
10. CAUTION - These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions unless you are qualified to do so.

Before You Get Started

Shipment

Your UCA222 was carefully packed at the assembly plant to assure secure transport. Should the condition of the cardboard box suggest that damage may have taken place, please inspect the unit immediately and look for physical indications of damage.

◊ **Damaged equipment should NEVER be sent directly to us. Please inform the dealer from whom you acquired the unit immediately as well as the transportation company from which you took delivery. Otherwise, all claims for replacement/repair may be rendered invalid.**

◊ **Please always use the original packaging to avoid damage due to storage or shipping.**

◊ **Never let unsupervised children play with the equipment or with its packaging.**

◊ **Please dispose of all packaging materials in an environmentally friendly fashion.**

Initial operation

Please make sure the unit is provided with sufficient ventilation, and never place the UCA222 on top of an amplifier or in the vicinity of a heater to avoid the risk of overheating.

The current supply is made via the USB connecting cable, so that there is no external power supply unit required. Please adhere to all required safety precautions.

Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase by visiting www.behringer.com (alternatively www.behringer.de) and kindly read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, our goal is to have it repaired as quickly as possible. To arrange for warranty service, please contact the retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (www.behringer.com/support).

Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently.

Thank you for your cooperation!

System Requirements

◊ **The UCA222 is PC and Mac-compatible. Therefore, no installation procedure or drivers are required for the correct functioning of the UCA222.**
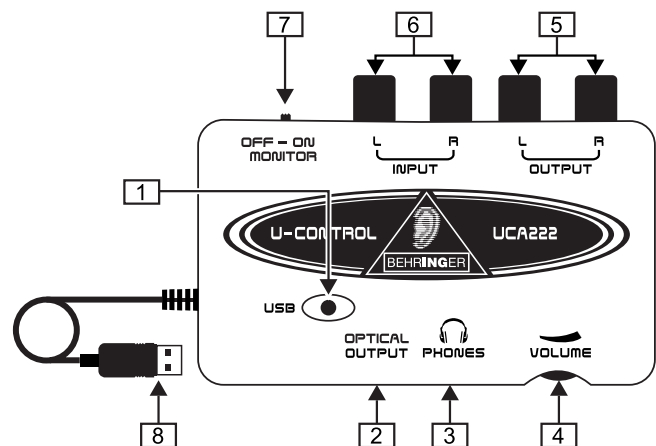
To work with the UCA222, your computer must fulfill the following minimum requirements:

PC	MAC
Intel or AMD CPU, 400 MHz or higher	G3, 300 MHz or higher
Minimum 128 MB RAM	Minimum 128 MB RAM
USB 1.1 interface	USB 1.1 interface
Windows XP, 2000	Mac OS 9.0.4 or higher, 10.X or higher

Hardware connection

Use the USB connecting cable to connect the unit to your computer. The USB connection also supplies the UCA222 with current. You can connect a variety of devices and equipment to the inputs and outputs.

Controls and Connectors

1. **POWER LED** – Indicates the status of the USB power supply.

2. **OPTICAL OUTPUT** – The Toslink jack carries an S/PDIF signal which can be connected via a fiber optic cable.

3. **PHONES** – Connect a standard pair of headphones equipped with a ⅛" mini plug.

4. **VOLUME** – Adjusts the volume level of the headphones output. Turn the control fully to the left before you connect the headphones to avoid hearing damage caused by high volume settings. Turn the control to the right to increase the volume.

5. **OUTPUT** – Connect to a speaker system using stereo RCA cables to monitor the audio output from the computer.

⑥ **INPUT** – Connect desired recording signal using audio cables with RCA connectors.

⑦ **OFF/ON MONITOR** – With the MONITOR switch OFF, the headphone output receives the signal from the computer over the USB port (same as the RCA output jacks). With the MONITOR switch ON, the headphones receive the signal connected to the RCA INPUT jacks.

⑧ **USB CABLE** – Sends information to and from your computer and the UCA222. It also provides power to the device.
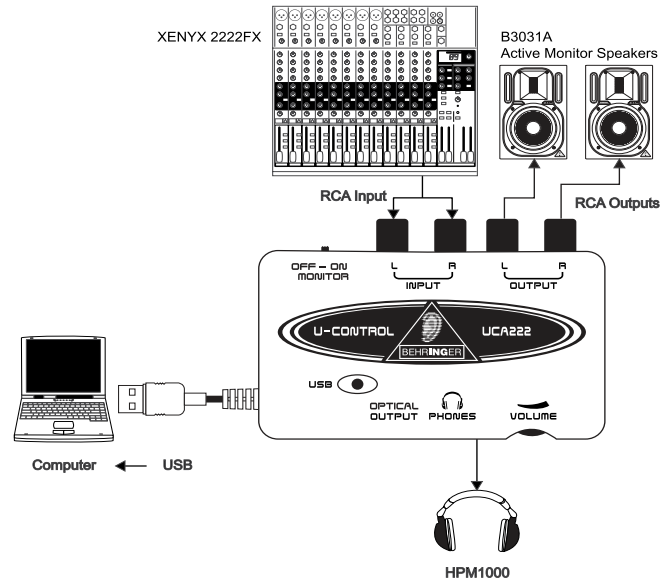
Software Installation

• This device requires no special setup or drivers, just plug it into a free USB port on a PC or Mac.

• The UCA222 comes with a free version of Audacity editing software. This will help make the transfer process quick and simple. Simply insert the CD into your CD-ROM drive and install the software. The CD also contains VST plug-ins, ASIO drivers and various freeware.

• For other audio needs, such as advanced editing, instrument recording, sequencing, etc., energyXT2.5 Compact BEHRINGER edition is also included.

◊ **Note – When the UCA222 is bundled with other BEHRINGER products, the included software may vary. In the instance that the ASIO drivers are not included, you may download these from our website at www.behringer.com.**

Basic Operation

The UCA222 provides an easy interface between your computer, mixer and monitoring system. Follow these steps for basic operation:

① Connect the UCA222 to the computer by plugging the USB cable into a free USB port. The power LED will light automatically.

② Connect the audio source that is to be recorded, such as a mixer, preamp, etc. to the INPUT stereo RCA jacks.

③ Plug a pair of headphones into the ⅛" PHONES jack and adjust the volume with the adjacent control. You may also monitor the output by plugging a pair of powered speakers into the OUTPUT stereo RCA jacks.

④ You may also send the stereo signal in digital audio format (S/PDIF) to an external recording device via the OPTICAL OUTPUT using a Toslink fiber optic cable.
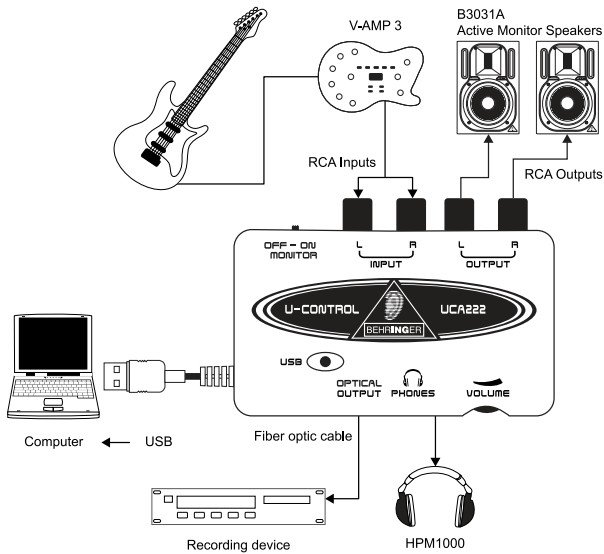
Application Diagrams

Using a mixer to record in a studio environment:

The most common application for the UCA222 is doing studio recording with a mixer. This will allow you to record several sources at once, listen to the playback, and record more tracks in sync with the original take(s).

• Connect the mixer's TAPE OUT to the INPUT RCA jacks on the UCA222. This will allow you to capture the overall mix.

• Plug the USB cable into a free USB port on your computer. The POWER LED will light up.

• Connect a pair of powered monitor speakers to the UCA222 OUTPUT RCA jacks. Depending on what type of inputs your speakers accept, you may need an adapter.

• You may also monitor the input signal with a pair of headphones instead of or in addition to the monitor speakers. Turn the OFF/ON MONITOR switch to the 'ON' position. Plug a pair of headphones into the PHONES jack and adjust the volume with the adjacent control. This will be preferable if the mixer and computer are in the same room as the instruments being recorded.

• Take some time to adjust each channel level and EQ to ensure a good balance between the instruments/sources. Once the mix has been recorded you will be unable to make adjustments to just one channel.

• Set the recording program to record input from the UCA222.

• Press record and let the music rip!

Recording with a preamp such as the V-AMP 3:

Preamps such as the V-AMP 3 provide a great way to record a wide selection of high-quality guitar sounds without the hassle of placing a mic in front of a conventional amp. They also allow you to record late at night without tempting your roommates or neighbors to strangle you with your own guitar cable.
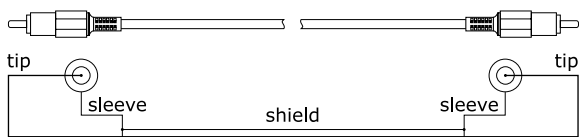
- Plug a guitar into the instrument input of the V-AMP 3 using a standard ¼" instrument cable.
- Connect the stereo ¼" outputs on the V-AMP 3 to the stereo RCA inputs on the UCA222. This will likely require adaptors. You may also use the stereo RCA to ¼" TRS cable that is included in the V-AMP 3/UCA222 package bundle to connect from the V-AMP 3 headphone output to the UCA222 RCA inputs.
- Plug the USB cable into a free USB port on your computer. The POWER LED will light up.
- Adjust the output signal level on the V-AMP 3.
- Set the recording program to record input from the UCA222.
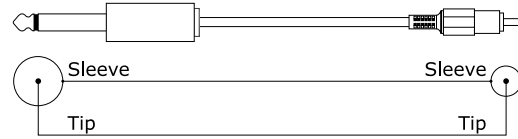- Press record and wail!

Audio Connections

Although there are various ways to integrate the UCA222 into your studio or live set-up, the audio connections to be made will basically be the same in all cases:

Wiring

Please use standard RCA cables to connect the UCA222 to other equipment:

You can also use a ¼" adapter cable:

Specifications

LINE IN

Connectors	RCA, unbalanced
Input impedance	approx. 27 kΩ
Max. input level	2 dBV

LINE OUT

Connectors	RCA, unbalanced
Output impedance	approx. 400 Ω
Max. output level	2 dBV

DIGITAL OUTPUT

Socket	Toslink, optical cable
Output format	S/PDIF

PHONES OUT

Socket	⅛" TRS stereo jack
Output impedance	approx. 50 Ω
Max. output pegel	-2 dBu, 2 x 3,7 mW @ 100 Ω

USB 1.1

Connectors	type A

DIGITAL PROCESSING

Converter	16-bit converter
Sample rate	32.0 kHz, 44.1 kHz, 48.0 kHz

SYSTEM DATA

Frequency response	10 Hz to 20 kHz, ± 1 dB @ 44.1 kHz sample rate 10 Hz to 22 kHz, ± 1 dB @ 48.0 kHz sample rate
THD	0.05 % typ. @ -10 dBV, 1kHz
Crosstalk	-77 dB @ 0 dBV, 1 kHz
Signal-to-noise ratio	A/D 89 dB typ. @ 1 kHz, A-weighted D/A 96 dB typ. @ 1 kHz, A-weighted

POWER SUPPLY

USB connection	5 V , 100 mA max.

DIMENSIONS/WEIGHT

Dimensions (H x W x D)	approx. 22 mm (0.87") x 88 mm (3.46") x 60 mm (2.36")
Weight	approx. 0.12 kg

BEHRINGER always takes great care to ensure the highest standard of quality. Any modifications which may be necessary will be made without prior notification. Technical data and appearance of the equipment can therefore differ from the details or illustrations shown.

Legal Disclaimer

Technical specifications and appearance are subject to change without notice. The information contained herein is correct at the time of printing. All trademarks (except BEHRINGER, the BEHRINGER logo, JUST LISTEN, U-CONTROL, V-AMP, and XENYX) mentioned belong to their respective owners, and such use neither constitutes a claim of the trademarks by BEHRINGER nor affiliation of the trademark owners with BEHRINGER. Mac and Mac OS are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. Windows is a registered trademark of Microsoft Corporation in the United States and other countries. ASIO is a trademark and software of Steinberg Media Technologies GmbH. VST is a trademark of Steinberg Media Technologies GmbH. AMD is a trademark or registered trademark of Advanced Micro Devices, Inc. Intel is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries. energyXT2.5 is a trademark of XT Software AS incorporated in Norway, and is protected under the laws of Norway, and is being used under license by Behringer Holdings (Pte) Ltd and related companies. BEHRINGER, accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph or statement contained herein. Colors and specifications may vary slightly from product. Our products are sold through authorized dealers only. Distributors and dealers are not agents of BEHRINGER, and have absolutely no authority to bind BEHRINGER, by any express or implied undertaking or representation. No part of this manual may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording of any kind, for any purpose, without the express written permission of BEHRINGER International GmbH. ALL RIGHTS RESERVED. © 2009 BEHRINGER, International GmbH, Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich, Germany. Tel. +49 2154 9206 0, Fax +49 2154 9206 4903

Warranty

§ 1 Other warranty rights and national law

① This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.

② The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

§ 2 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase by visiting http://www.behringer.com and kindly read the terms and conditions of our warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

§ 3 Warranty

① BEHRINGER (BEHRINGER International GmbH including all BEHRINGER subsidiaries, except BEHRINGER Japan) warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year* from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not excluded from this warranty as described under § 5, BEHRINGER shall, at its discretion, either replace or repair the product using suitable new or reconditioned parts. In the case that other parts are used which constitute an improvement, BEHRINGER may, at its discretion, charge the customer for the additional cost of these parts.

② If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.

③ Warranty claims other than those indicated above are expressly excluded.

§ 4 Return authorization number

① To obtain warranty service, the buyer (or his authorized dealer) must call BEHRINGER during normal business hours BEFORE returning the product. All inquiries must be accompanied by a description of the problem. BEHRINGER will then issue a return authorization number.

② Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by BEHRINGER.

③ Shipments without freight prepaid will not be accepted.

§ 5 Warranty regulations

① Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealer's invoice. Any product deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced.

② If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation.

③ Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, tubes, guitar strings, illuminants and similar parts.

④ Damage/defects caused by the following conditions are not covered by this warranty:

· improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals;

· connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;

· damage/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER.

⑤ Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.

⑥ If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.

⑦ Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

§ 6 Warranty transferability

This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of BEHRINGER.

§ 7 Claim for damage

Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of BEHRINGER exceed the invoiced value of the product.

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* Customers in the European Union please contact BEHRINGER Germany Support for further details.

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