

User Manual



# GUITAR LINK UCG102

The Ultimate Guitar-to-USB Interface to Jam and Record with Killer Modeling Amps and Effects



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**Important Safety Instructions**

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.



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

**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.
- ◆ 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 liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- ◆ 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. Repairs have to be performed by qualified service personnel.
- ◆ The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.

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.

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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.

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## LEGAL DISCLAIMER

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## LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at [www.music-group.com/warranty](http://www.music-group.com/warranty).

## 1. Introduction

Thank you for expressing your confidence in us by purchasing the GUITAR LINK UCG102. Your computer will become the ultimate working platform on which you can use the classic effects, in the studio as well as on stage. With a notebook, a guitar and the UCG102, it is now possible to work on the go, be it train or hotel. The GUITAR LINK UCG102's scope of delivery includes a first-class modeling software with virtual amps and effects pedals. Accompany songs in MP3-, WAV- and AIFF-format which you can play from your PC or Mac computer. A headphone connection with a volume regulator is also available so that you can enjoy the session with your favorite volumes undisturbed, entirely after the motto "Plug'n Rock".

### 1.1 Before you get started

#### 1.1.1 Shipment

Your GUITAR LINK UCG102 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 device or with its packaging.
- ◆ Please dispose of all packaging materials in an environmentally friendly fashion.

### 1.2 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER 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 (<http://behringer.com>).

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

Thank you for your cooperation!

## 2. Controls and Connections

You can connect the UCG102 directly to an amp by means of the jack connector and to your PC or Mac computer by using the USB connector. The USB connection supplies the power for the UCG102.

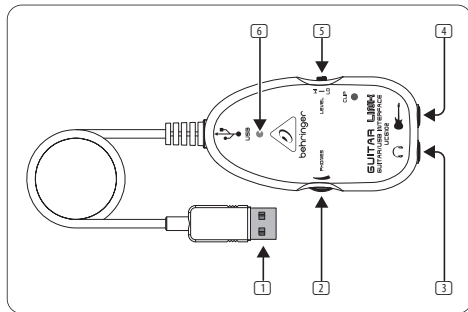



Fig. 2.1: Control elements and connections

- 1 You can connect the guitar to your computer via USB connection. The blue control LED 6 indicates that a connection to the computer has been established.
- 2 The VOLUME control adjusts the volume level of the headphones output. Turn the control fully to the left before you connect the headphones. This helps you avoid the damage that is caused by high volume settings.

- ③ You can use a commercially available ¼" jack for the -connection.
- ◆ We would like to draw your attention to the fact that extremely loud sound levels may damage your hearing as well as your headphones/loudspeakers. Turn the VOLUME control fully clockwise before you switch on the unit. Be careful to select a suitable volume at all times.
- ④ You can connect the UCG102 to your guitar via the guitar input (¼" jack). Use a commercial ¼" mono jack cable.
- ⑤ You can modify the guitar signal with the LEVEL switch. At high signal levels, the CLIP LED (above the BEHRINGER LOGO) will light up red in which case you should set the LEVEL switch to LOW.
- ⑥ The blue LED indicates the status of the USB connection.

### 3. Application Example

You can connect the UCG102 directly to your computer in order to record, play along to a playback or play directly over the modeling amps and effects. The UCG102 lets you get started immediately, wherever you are. Simply hook up and start to rock.

### 3.1 Operation of the connector

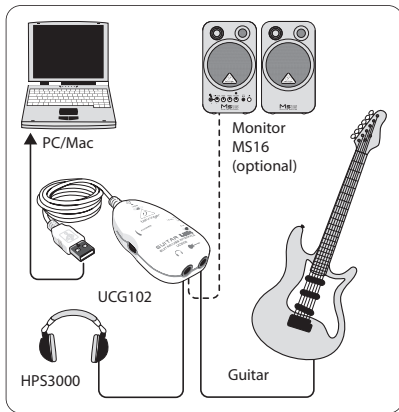


Fig. 3.1: Wiring of the UCG102

Use the USB cable to connect the GUITAR LINK UCG102 to your computer. The USB unit of the UCG102 is bus powered—no separate power supply is needed. The blue LED ⑥ lights up and the system indicates the connection of a USB audio unit.

Connect your headphones to the PHONES connector on the UCG102.

If you don't want to use your headphones, you can also connect a pair of active monitors to the PHONES connector—the BEHRINGER MONITOR SPEAKERS Series, MS16, MS20, MS40, B2030A or B2031A are perfect choices for this application.

## 4. Audio Connections

With the integrated USB interface, you can change your computer to an ultimate recording studio. Whether you rehearse at home or in the studio, the used audio connections always remain the same.

### 4.1 Wiring

You connect the UCG102 to your guitar via a standard instrument cable.

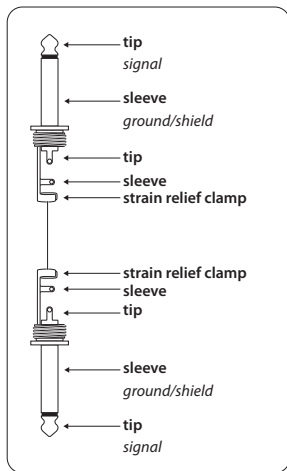


Fig. 4.1: Unbalanced instrument cable with 1/4" TS connector



## 4.2 Headphone connection

The UCG102 provides a connection for head-phones. You can connect any standard commercial headphone with a ¼" TRS jack plug. For mini TRS jack plugs, you will need a suitable adapter. You can see the required pin allocation from the following diagram.

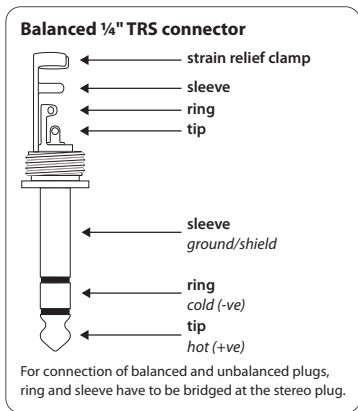


Fig. 4.2: TRS stereo connector

## 4.3 USB cable

The UCG102 comes with a USB cable for connecting USB-compatible devices like notebooks.

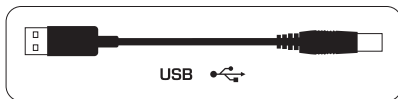


Fig. 4.3: USB connector cable

## 5. Specifications

### Guitar In

Connector	¼" TRS
Input Impedance (High)	250 kΩ
Input Impedance (Low)	400 kΩ

### Phones Out

Connector	¼" TRS
Output impedance	approx. 50 Ω
Max. output pegel	-2 dBu, 2 x 3.7 mW @ 100 Ω

### USB 1.1

Connector	type A
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### Digital Processing

Converter	16-bit converter
Sample rate	32.0 / 44.1 / 48 kHz

### Power Supply

USB connection	5 V $\overline{-}$ , 100 mA max.
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### Dimensions / Weight

Dimensions (H x W x D)	approx. 1 x 2 x 3 ¾" approx. 24.6 x 50.8 x 95.6 mm
Cable length	approx. 5 9/10" / 15 cm
Weight	approx. 0.198 lbs / 0.09 kg

### System Requirements (PC / Mac)

Operating system	Win XP / Mac OS X
Processor min. (PC)	Pentium 700 MHz / Athlon XP 1.33 GHz
Processor min. (Mac)	G4 733 MHz / Intel Core Duo 1.66
RAM (PC)	256 MB
RAM (Mac)	512 MB

**Software**

<b>Applications</b>	please see “Software Installation Guide”
<b>Driver (Windows)</b>	high-performance driver BEHRINGER USB AUDIO for Win 98 (SE) / ME / 2000 / XP / Vista
<b>Driver (Mac OS X)</b>	Core Audio

BEHRINGER is constantly striving to maintain the highest professional standards.

As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

## FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



**BEHRINGER**

**GUITAR LINK UCG102**

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### **GUITAR LINK UCG102**

complies with the FCC rules as mentioned in the following paragraph:

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 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.

#### **Important information:**

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.



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