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Quick Start Guide



U-PHORIA UMC1820

Audiophile 18 x 20, 24-Bit/96 kHz USB Audio/MIDI Interface with
MIDAS Mic Preamplifiers

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Important Safety Instructions

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Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



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.



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 liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



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. Repairs have to be performed by qualified service personnel.

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 block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid

injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. 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.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken

to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed of at a battery collection point.

21. Use this apparatus in tropical and/or moderate climates.

LEGAL DISCLAIMER

MUSIC Group 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. Technical specifications, appearances and other information are subject to change without notice. All trademarks are the property of their respective owners. MIDAS, KLARK TEKNİK, LAB GRUPPEN, LAKE, TANNOY, TURBOSOUND, TC ELECTRONIC, TC HELICON, BEHRINGER, BUGERA and DDA are trademarks or registered trademarks of MUSIC Group IP Ltd. © MUSIC Group IP Ltd. 2016 All rights reserved.

LIMITED WARRANTY

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

U-PHORIA UMC1820 Hook-up

EN Step 1: Hook-Up

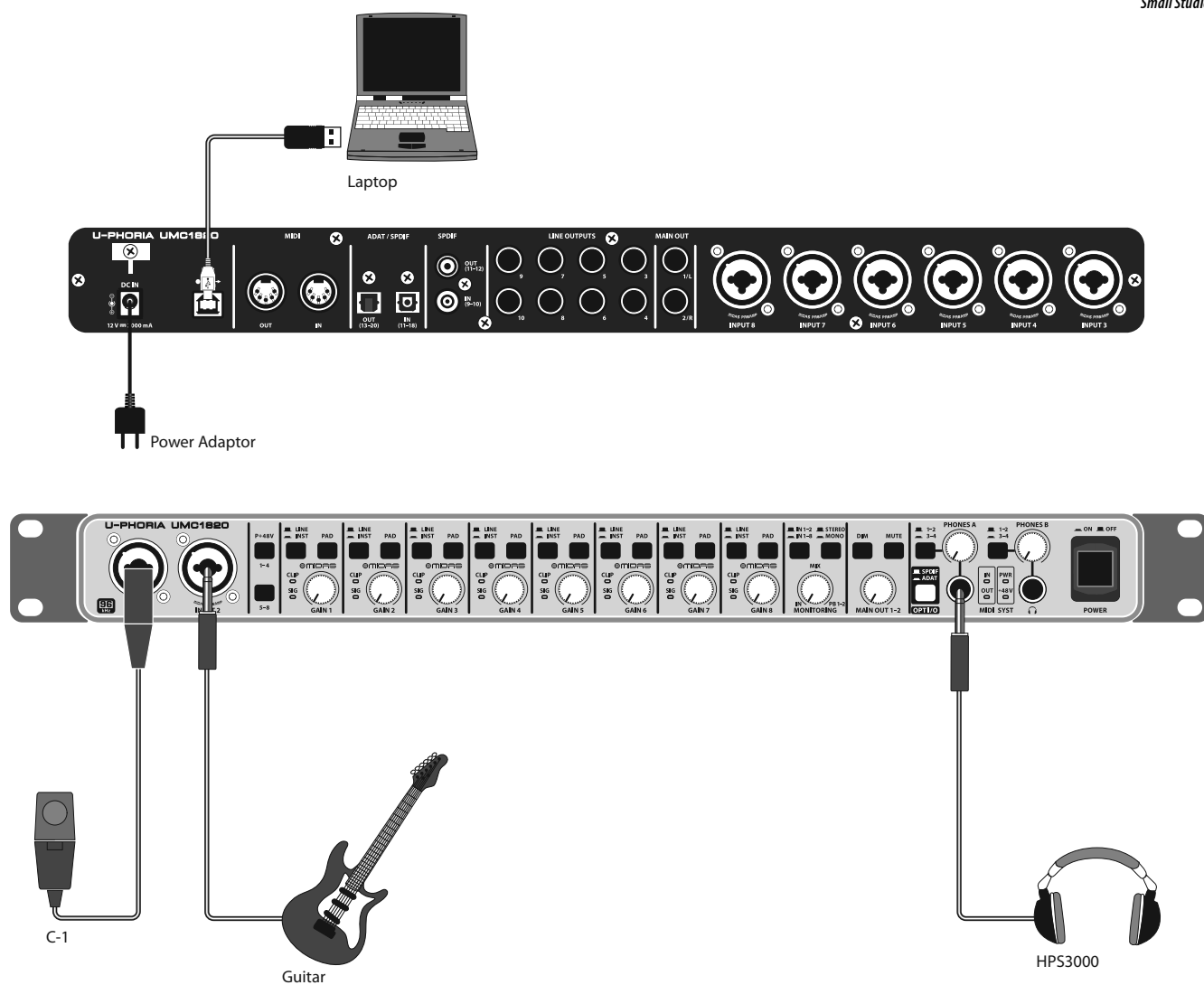
ES Paso 1: Conexión

FR Etape 1 : Connexions

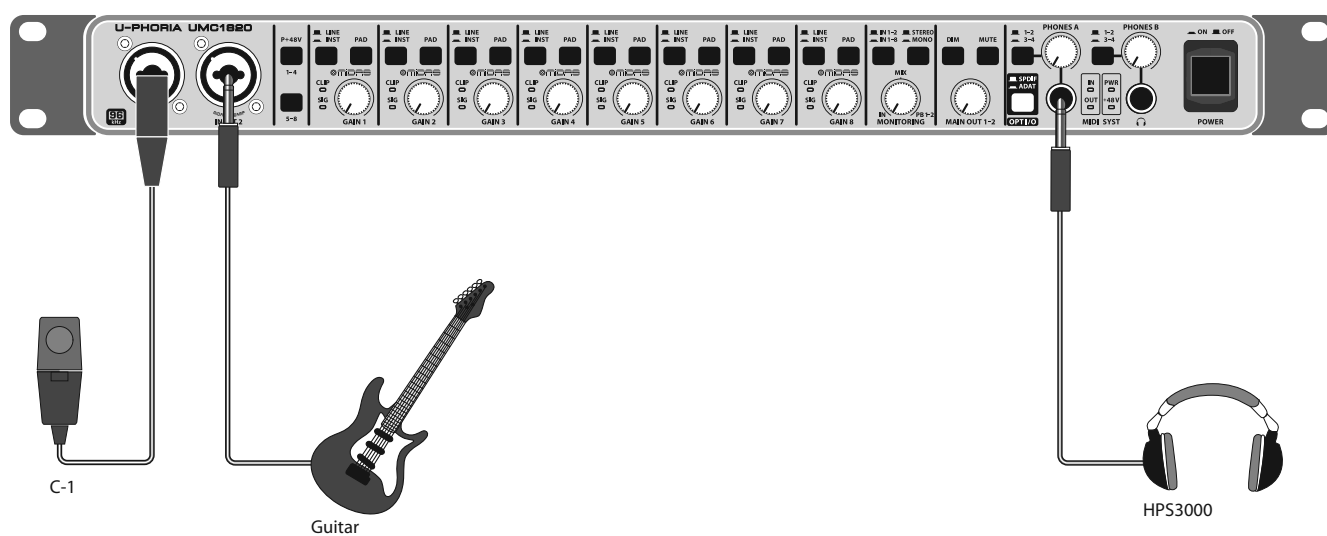
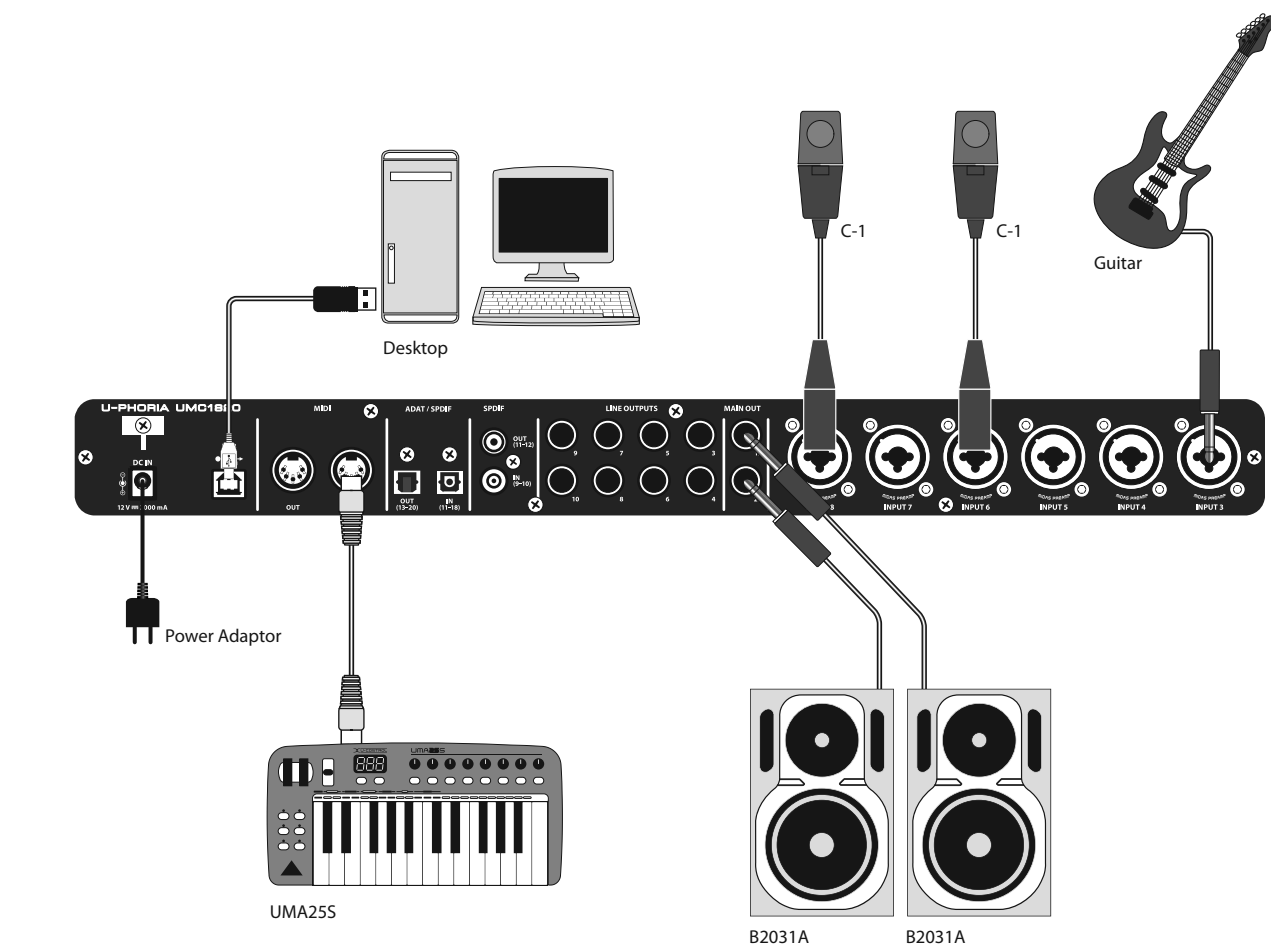
DE Schritt 1: Verkabelung

PT Passo 1: Conexões

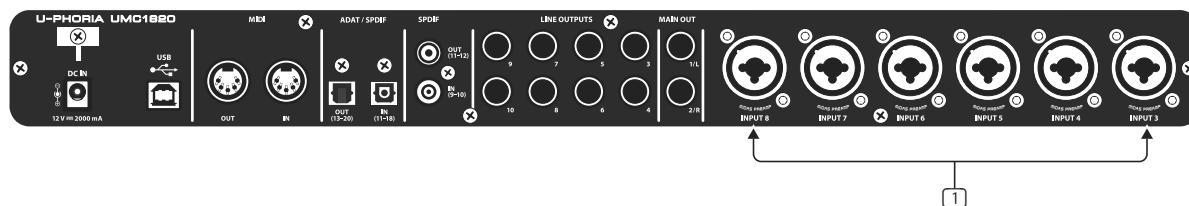
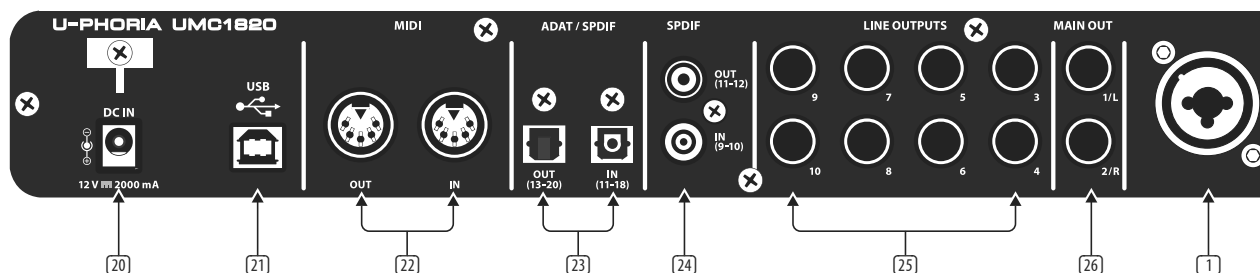
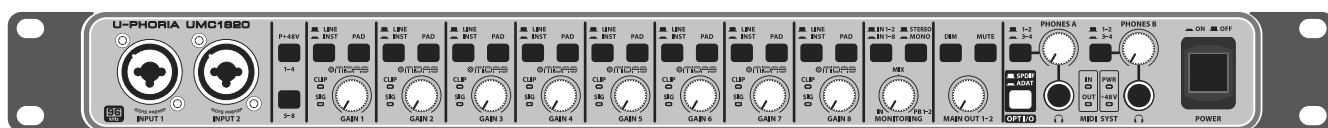
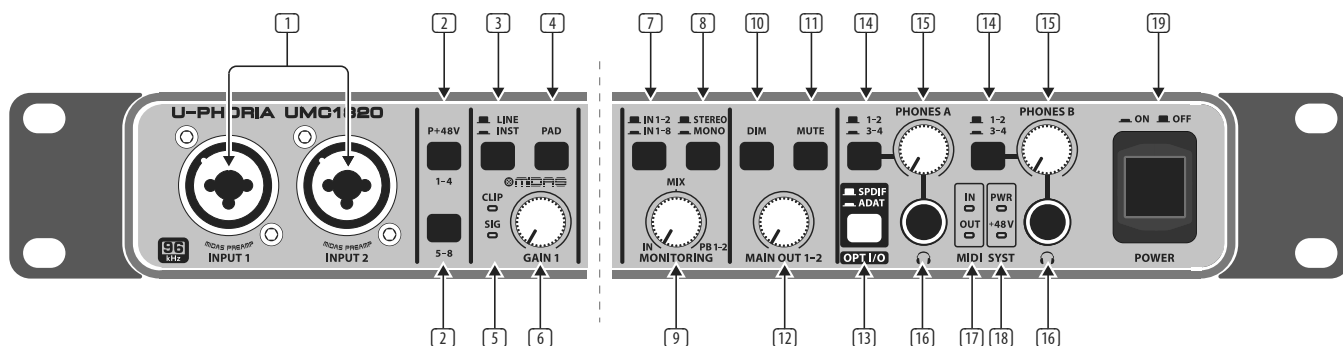
Small Studio



Studio



U-PHORIA UMC1820 Controls



EN Step 2: Controls

- 1 **INPUTS** accept XLR or ¼" connections from microphones, instruments, or line level audio sources.
- 2 **P+48V** switches turn on +48 Volt Phantom Power to XLR inputs 1 to 4, and 5 to 8. Carefully read your microphone's documentation before turning on phantom power, as it can damage some microphones.
- 3 **LINE / INST** selects line level or instrument level input source at the ¼" connector. Select **INST** when connecting a guitar directly.
- 4 **PAD** reduces the level of input signals from the XLR and ¼" inputs. For example, this is useful if the XLR input is not from a microphone.
- 5 **SIG LED** indicates an audio signal is present. The **CLIP LED** turns on if the audio input signal is too high.
- 6 **GAIN** knob adjusts the input level. Adjust so the **CLIP LED** does not turn on, even during the highest peaks.
- 7 **IN 1-2 or 1-8** selects direct analog input sources 1-2 or 1-8 for monitoring.
- 8 **STEREO/MONO** selects stereo or mono monitoring.
- 9 **MONITORING** knob adjusts the mix between the direct inputs and computer playback:
IN: only direct inputs (0 ms latency)
MIX: 50/50 mix of inputs and playback from computer
PB 1-2: only playback from computer
- 10 **DIM** switch reduces the **MAIN OUT** output level.
- 11 **MUTE** switch cuts the **MAIN OUT** signal.
- 12 **MAIN OUT** knob controls the **MAIN OUT** output level.
- 13 **OPT I/O** selects the operation of the rear panel optical and coaxial RCA I/O ports:
SPDIF: Optical input S/PDIF 9-10, Optical output S/PDIF 11-12. Coaxial input off, Coaxial output S/PDIF 11-12.
ADAT:
 (@ 96 or 88.2 kHz) Optical input S/MUX 11-14, optical output S/MUX 13-16. Coaxial input S/PDIF 9-10, Coaxial output S/PDIF 11-12.
 (@ 48 or 44.1 kHz) Optical input ADAT 11-18, optical output ADAT 13-20. Coaxial input S/PDIF 9-10, Coaxial output S/PDIF 11-12.
Caution: Do not change between S/PDIF and ADAT modes while operating your DAW / music program, because the UMC1820 does a quick re-boot. Close all applications before changing modes, and then wait until

the unit has been recognized again by your operating system before restarting your music application.

- 14 **PHONES** source selector switch:
1-2: Listen to the stereo **MIX** signal channels 1-2 from the monitoring section.
3-4: Listen to the playback signal from computer output channels 3-4.
- 15 **PHONES** level adjustment. Start at minimum and then turn up to a comfortable and safe listening level.
- 16 **PHONES** ¼" TRS stereo headphone outputs.
- 17 **MIDI I/O LEDs** indicates MIDI activity.
- 18 **POWER LED** is on if the power switch is pressed in and the unit is powered via the supplied power adaptor.
+48V LED is on if either phantom power switch (1-4 / 5-8) is on.
- 19 **POWER** switch. Press in to turn on the unit. The **POWER LED** will turn on.

Rear Panel

- 20 **POWER IN** connect to the supplied power adaptor only. Connect the power adaptor to an AC mains supply that is properly configured for the unit. A cable holder above the input prevents the power connection from being accidentally pulled out.
- 21 **USB** type B connector. Connect to a computer USB port with the supplied USB cable.
- 22 **MIDI IN/OUT** connect to external MIDI controllers and modules.
- 23 **ADAT or S/PDIF** Optical I/O ports support S/PDIF, ADAT, S/MUX. Input channels are 11 to 18, outputs are 13 to 20. The front panel **OPT I/O**-switch 13 selects the operation of these ports.
- 24 **S/PDIF I/O ports:** RCA coaxial S/PDIF inputs come in from external sources as input channels 9 to 10. S/PDIF output channels are 11 and 12.
- 25 **LINE OUT 3-10** balanced ¼" TRS outputs for additional monitoring and recording. The output signals come directly from the computer after being converted to analog by the UMC1820. The output levels are only controlled by the DAW.
- 26 **MAIN OUT** balanced ¼" TRS outputs connect to powered studio monitors for playback and mixing. Adjust the source using the front panel **MONITORING** controls, and adjust the level using the front panel **MAIN OUT** controls.

U-PHORIA UMC1820 Getting started

EN Step 3: Getting started

- 1** Windows* users: Please visit behringer.com and download the latest UMC1820 USB driver. Unzip the file, double-click the setup.exe and follow the on-screen instructions. Mac* users: For OS X*, no drivers are needed.
- 2** Connect instruments and audio sources to the UMC1820. Connect to a computer via the provided USB cable. Connect a MIDI keyboard, controller, or other MIDI device via the MIDI ports on the rear panel. Connect a pair of studio monitors to the MAIN OUTPUTS. Connect a pair of studio headphones to monitor input levels and playback from your audio software.
- 3** Start with the GAIN, MONITORING, and PHONES level at minimum.
- 4** Turn on the UMC1820 first, followed by any other external equipment.
- 5** Check to see if any of your microphones require Phantom Power.
- 6** Make sure your DAW software recognizes the UMC1820 as the audio and MIDI input and output device.
- 7** While playing a source, such as a guitar, or singing into a microphone, adjust the GAIN of each analog input. You can first make it clip, and then turn the GAIN down just enough so the CLIP LED does not come on, even during the highest peaks.
- 8** Listen to your playing in the headphones or studio monitors, and adjust the PHONES or MAIN OUT volume controls to a comfortable and safe listening level.
- 9** On your DAW, make sure that all input and MIDI channels are working correctly, with audio and MIDI present. Play each channel one at a time to confirm it is present in your DAW.
- 10** Verify that the playback from your DAW is reaching the UMC1820. Adjust the MIX knob in the monitoring section to hear the playback. Note that the volume level of the other outputs 3 - 10 and the digital outputs is adjusted only by the DAW.
- 11** Enjoy playing along and making recordings on your DAW. Playback and listen in your studio monitors or headphones. Adjust the monitoring MIX control as desired.

EN Specifications

Input	
Preamps	8 x MIDAS-designed
Type	XLR / TRS combo connector (Mic/Line/Instrument), 2 front / 6 rear
Input level attenuation	8 x pad switch
Frequency response	10 Hz – 85 kHz (+0/-3 dB) / direct monitor
Impedance	Mic in: 3 kΩ / Instrument in: 1 MΩ
Max. input level	Mic: 11 dBu / Line: 11 dBu / Instrument: 18 dBu
Phantom power	+48 V switchable inputs 1-4 and 5-8
Output	
Type	8 x ¼" TRS, line outputs 2 x ¼" TRS, main outputs 2 x ¼" TRS stereo, headphone outputs
Frequency response	10 Hz – 85 kHz (+0/-3 dB) / direct monitor
Max. output level	+16 dBu line outputs +16 dBu main outputs +21.5 dBu headphone outputs
System Data	
Dynamic range	106 dB, A-weighted
Frequency response	10 Hz – 40 kHz (+0/-3 dB) @ 96 kHz sampling rate
Digital Audio I/O	
Type	Coaxial: RCA – 1 In, 1 Out Optical: TOSLINK – 1 In, 1 Out
Supported formats	ADAT, S/PDIF, S/MUX
MIDI I/O	
Type	5-pin DIN, 1 in / 1 out
Monitoring	
Direct monitor control	Mix control (inputs/playback 1-2) Source select (analog inputs 1-2/1-8) Stereo/Mono select
Main L/R control	Output Level 1/L – 2/R control, dim and mute switch
Headphones DJ cueing	Monitor switches (monitor mix 1-2 / playback out 3-4)
Digital Processing	
Converter resolution	24-bit
Supported sample rates	44.1, 48, 88.2, 96 kHz
Digital I/O Routing	
S/PDIF selected (OPT I/O switch out)	RCA In = off Optical In = S/PDIF (ch. 9-10) RCA Out + Optical Out = S/PDIF (ch. 11-12)
ADAT selected (OPT I/O switch in)	RCA In = S/PDIF (ch. 9-10) Optical In @ 96 / 88.2 kHz = S/MUX (ch. 11-14) Optical In @ 48 / 44.1 kHz = ADAT (ch. 11-18) RCA Out = S/PDIF (ch. 11-12) Optical Out @ 96 / 88.2 kHz = S/MUX (ch. 13-16) Optical Out @ 48 / 44.1 kHz = ADAT (ch. 13-20)

Computer Bus Connectivity	
Type	USB 2.0, type B
Software Support	
Operating systems	Fully compatible with Windows XP or higher Fully compatible with Mac OS 10.9 (Mavericks) or higher For older OS X versions, the following restrictions apply: 10.8 (Mountain Lion) + 10.7 (Lion): After changing the "OPT I/O" mode with the front panel switch, you must refresh the OS X Audio-Midi-Setup window to get the correct I/O channel numbers indicated. 10.6 (Snow Leopard): The UMC1820 can only be used in S/PDIF mode ("OPT I/O" switch not pressed in). ADAT operation is NOT supported by this OS X version. 10.5 + earlier versions are not supported
Drivers	Mac: No driver required (CoreAudio/CoreMIDI compliant) Windows: 2 drivers are available: one driver for Windows XP or Windows Vista one driver for Windows 7 to 10 Download the correct driver for your system from behringer.com
Power Supply / Voltage	
Voltage	12 V DC (from supplied AC/DC adapter)
Power consumption	20 W
Dimensions / Weight	
Dimensions (H x W x D)	46 x 483 x 130 mm (1.8 x 19 x 5.1")
Weight	1.8 kg (4.0 lbs)

Other important information

EN Important information

1. Register online. Please register your new MUSIC Group equipment right after you purchase it by visiting behringer.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction. Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under "Support" at behringer.com. Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product.

3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

FR Informations importantes

1. Enregistrez-vous en ligne. Prenez le temps d'enregistrer votre produit MUSIC Group aussi vite que possible sur le site Internet behringer.com. Le fait d'enregistrer le produit en ligne nous permet de gérer les réparations plus rapidement et plus efficacement. Prenez également le temps de lire les termes et conditions de notre garantie.

2. Dysfonctionnement. Si vous n'avez pas de revendeur MUSIC Group près de chez vous, contactez le distributeur MUSIC Group de votre pays : consultez la liste des distributeurs de votre pays dans la page "Support" de notre site Internet behringer.com. Si votre pays n'est pas dans la liste, essayez de résoudre votre problème avec notre "aide en ligne" que vous trouverez également dans la section "Support" du site behringer.com. Vous pouvez également nous faire parvenir directement votre demande de réparation sous garantie par Internet sur le site behringer.com AVANT de nous renvoyer le produit.

3. Raccordement au secteur. Avant de relier cet équipement au secteur, assurez-vous que la tension secteur de votre région soit compatible avec l'appareil. Veuillez à remplacer les fusibles uniquement par des modèles exactement de même taille et de même valeur électrique — sans aucune exception.

PT Outras Informações Importantes

1. Registre-se online. Por favor, registre seu novo equipamento MUSIC Group logo após a compra visitando o site behringer.com. Registrar sua compra usando nosso simples formulário online nos ajuda a processar seus pedidos de reparos com maior rapidez e eficiência. Além disso, leia nossos termos e condições de garantia, caso seja necessário.

2. Funcionamento Defeituoso. Caso seu fornecedor MUSIC Group não esteja localizado nas proximidades, você pode contatar um distribuidor MUSIC Group para o seu país listado abaixo de "Suporte" em behringer.com. Se seu país não estiver na lista, favor checar se seu problema pode ser resolvido com o nosso "Suporte Online" que também pode ser achado abaixo de "Suporte" em behringer.com. Alternativamente, favor enviar uma solicitação de garantia online em behringer.com ANTES da devolução do produto.

3. Ligações. Antes de ligar a unidade à tomada, assegure-se de que está a utilizar a voltagem correcta para o modelo em questão. Os fusíveis com defeito terão de ser substituídos, sem qualquer excepção, por fusíveis do mesmo tipo e corrente nominal.

ES Aspectos importantes

1. Registro online. Le recomendamos que registre su nuevo aparato MUSIC Group justo después de su compra accediendo a la página web behringer.com. El registro de su compra a través de nuestro sencillo sistema online nos ayudará a resolver cualquier incidencia que se presente a la mayor brevedad posible. Además, aproveche para leer los términos y condiciones de nuestra garantía, si es aplicable en su caso.

2. Averías. En el caso de que no exista un distribuidor MUSIC Group en las inmediaciones, puede ponerse en contacto con el distribuidor MUSIC Group de su país, que encontrará dentro del apartado "Support" de nuestra página web behringer.com. En caso de que su país no aparezca en ese listado, acceda a la sección "Online Support" (que también encontrará dentro del apartado "Support" de nuestra página web) y compruebe si su problema aparece descrito y solucionado allí. De forma alternativa, envíenos a través de la página web una solicitud online de soporte en periodo de garantía ANTES de devolvernos el aparato.

3. Conexiones de corriente. Antes de enchufar este aparato a una salida de corriente, asegúrese de que dicha salida sea del voltaje adecuado para su modelo concreto. En caso de que deba sustituir un fusible quemado, deberá hacerlo por otro de idénticas especificaciones, sin excepción.

DE Weitere wichtige Informationen

1. Online registrieren. Bitte registrieren Sie Ihr neues MUSIC Group-Gerät direkt nach dem Kauf auf der Website behringer.com. Wenn Sie Ihren Kauf mit unserem einfachen online Formular registrieren, können wir Ihre Reparaturansprüche schneller und effizienter bearbeiten. Lesen Sie bitte auch unsere Garantiebedingungen, falls zutreffend.

2. Funktionsfehler. Sollte sich kein MUSIC Group Händler in Ihrer Nähe befinden, können Sie den MUSIC Group Vertrieb Ihres Landes kontaktieren, der auf behringer.com unter „Support“ aufgeführt ist. Sollte Ihr Land nicht aufgelistet sein, prüfen Sie bitte, ob Ihr Problem von unserem „Online Support“ gelöst werden kann, den Sie ebenfalls auf behringer.com unter „Support“ finden. Alternativ reichen Sie bitte Ihren Garantieanspruch online auf behringer.com ein, BEVOR Sie das Produkt zurücksenden.

3. Stromanschluss. Bevor Sie das Gerät an eine Netzsteckdose anschließen, prüfen Sie bitte, ob Sie die korrekte Netzspannung für Ihr spezielles Modell verwenden. Fehlerhafte Sicherungen müssen ausnahmslos durch Sicherungen des gleichen Typs und Nennwerts ersetzt werden.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

**BEHRINGER****U-PHORIA UMC1820**

Responsible Party Name: **MUSIC Group Services NV Inc.**

Address: **5270 Procyon Street
Las Vegas, NV 89118
USA**

Phone Number: **+1 702 800 8290**

U-PHORIA UMC1820

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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