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behringer

Quick Start Guide



U-PHOR IA UMC1820

Audiophile 18×20, 24-Bit/96 kHz USB Audio/MIDI Interface with Midas Mic **Preamplifiers**

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Important Safety Instructions



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

Use only high-quality professional speaker cables with 1/4" TS or twist-locking plugs preinstalled. 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 theprovided 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. This apparatus may be used in tropical and moderate climates up to 45°C.

LEGAL DISCLAIMER

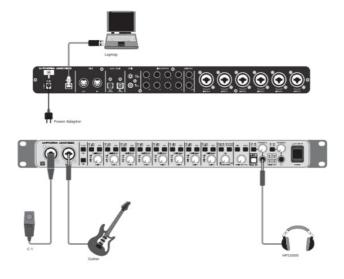
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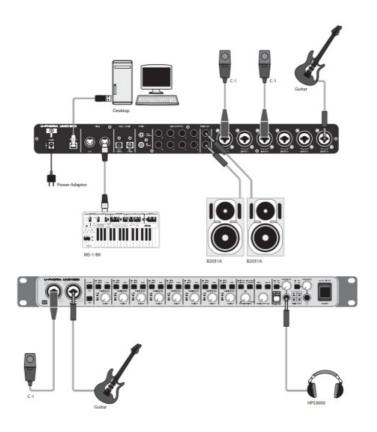
LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at community.musictribe.com/support.

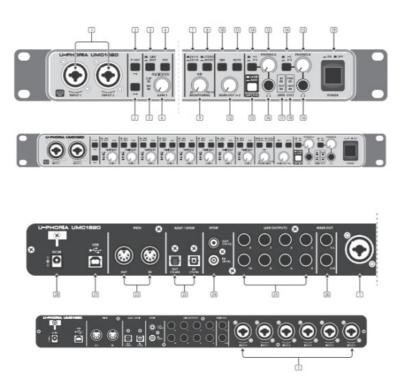
U-PHORIA UMC1820 Hook-up

Step 1: Hook-Up
Small Studio





U-PHORIA UMC1820 Controls



Step 2: Controls

- 1. INPUTS accept XLR or 1/4" 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 ½" 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.
- 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 1/4" 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 1/4" 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.

Step 3: Getting started

- 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.
- 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.

Specifications

Input

Preamps	8 x Midas-designed
Туре	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 k Ω / Instrument in: 1 M Ω

Max. input level	Mic: 11 dBu / Line: 11 dBu / Instrument: 18 dBu
Phantom power	+48 V switchable inputs 1-4 and 5-8

Output

Туре	8 x ½" TRS, line outputs 2 x ½" TRS, main outputs 2 x ½" 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

Туре	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 manitar central	Mix control (inputs/playback 1-2) Source select (an
Direct monitor control	alog inputs 1-2/1-8) Stereo/Mono select

Main L/R control	Output Level 1/L – 2/R control, dim and mute switc
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 switc h 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

	Fully compatible with Windows XP or higher Fully comp
	atible 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 re
Operating systems	fresh the OS X Audio-Midi-Setup window to get the corr
Operating systems	ect 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 sup
	ported by this OS X version.
	10.5 + earlier versions are not supported
Drivers	Mac: No driver required (CoreAudio/CoreMIDI complian
	t)
	Windows: Drivers for Windows XP and above are avail
	able. 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

Important information

1. Register online. Please register your new Music Tribe equipment right after you

purchase it by visiting musictribe.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 Tribe Authorized Reseller not be located in your

vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed

under "Support" at musictribe.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 musictribe.com.

Alternatively, please submit an online warranty claim at musictribe.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.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

Behringer

U-PHORIA UMC1820

Responsible Party Name: Music Tribe Commercial NV Inc.

Address: 122 E. 42nd St.1,

8th Floor NY, NY 10168,

United States

Email Address: legal@musictribe.com

U-PHORIA UMC1820

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 equipment 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 Tribe can void the user's authority to use the equipment.

C € Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at https://community.musictribe.com/

EU Representative: Music Tribe Brands DK A/S

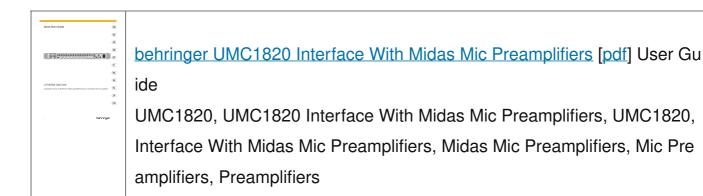
Address: Gammel Strand 44, DK-1202 København K, Denmark

UK Representative: Music Tribe Brands UK Ltd.

Address: 8 th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom



Documents / Resources



References

- User Manual
- Behringer

Search:

e.g. whirlpool wrf535swhz

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