

Classic Cantabile KH-238 Kopfhörer HiFi dynamisch

ArtNr.: 00016331



Bedienungsanleitung

Version: 10.2024

Vielen Dank, dass Sie sich für dieses Produkt entschieden haben. Um sicherzustellen, dass Sie mit dem Classic Cantabile Kopfhörer voll und ganz zufrieden sind, lesen Sie sorgfältig und verstehen Sie diese Bedienungsanleitung, bevor Sie unser Produkt verwenden. Bewahren Sie diese Bedienungsanleitung an einem sicheren Ort auf. Die Bedienungsanleitung muss an alle nachfolgenden Anwender weitergegeben werden.



Bedienungsanleitung beachten!



WARNUNG

Mit dem Signalwort **WARNUNG** sind die Gefahren gekennzeichnet, die ohne Vorsichtsmaßnahmen zu schweren Verletzungen führen können.



HINWEIS

Mit dem Signalwort **HINWEIS** sind allgemeine Vorsichtsmaßnahmen gekennzeichnet, die im Umgang mit dem Produkt beachtet werden sollen.



HINWEIS

Bilder und Bildschirmdarstellungen in dieser Bedienungsanleitung können vom Erscheinungsbild des tatsächlichen Produkts geringfügig abweichen, solange dies keine negativen Auswirkungen auf die technischen Eigenschaften und Sicherheit des Produkts hat.



HINWEIS

Alle personenbezogenen Formulierungen in dieser Bedienungsanleitung sind geschlechtsneutral zu betrachten.

Diese Bedienungsanleitung gilt für Personen, die von einer für ihre Sicherheit verantwortlichen Person beaufsichtigt oder in die Bedienung des Gerätes eingewiesen wurden und nachgewiesen haben mit dem Gerät umgehen zu können.



WARNUNG

**Kinder sollten beaufsichtigt werden, um sicherzustellen, dass sie nicht mit dem Kopfhörer spielen.
Der Kopfhörer ist kein Spielzeug**

Alle Informationen in dieser Bedienungsanleitung wurden nach bestem Wissen und Gewissen kontrolliert. Weder Autor noch Herausgeber können jedoch für Schäden haftbar gemacht werden, die in Zusammenhang mit der Verwendung dieser Bedienungsanleitung stehen.

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Detaillierte Sicherheitshinweise:**⚠ HINWEIS**

- Lesen Sie diese Anweisungen und bewahren Sie diese Anleitung auf.
- Beachten Sie alle Warnungen. Befolgen Sie alle Anweisungen.
- Verwenden Sie dieses Gerät nicht im Wasser.
- Reinigen Sie das Gerät nur mit einem trockenen Tuch.
- Legen Sie das Gerät nicht in auf Wärmequellen wie Heizkörpern, Öfen oder andere Geräte, die Wärme erzeugen.
- Achten Sie auf die Lautstärke! Hören mit zu hohem Lautstärkepegel kann Ihr Gehör dauerhaft schädigen.
- Wenden Sie sich bezüglich aller Reparatur- /Wartungsarbeiten an qualifiziertes Servicepersonal. Öffnen Sie das Gerät bzw. das Gehäuse nicht eigenmächtig. Eine Wartung ist erforderlich, wenn das Gerät auf irgendeine Weise beschädigt wurde, z. B. wenn das Kabel beschädigt ist, Flüssigkeit verschüttet wurde oder das Gerät Regen oder Feuchtigkeit ausgesetzt war, nicht ordnungsgemäß funktioniert.

**Beschreibung:****Funktion:**

Der Kopfhörer kann mit jedem Abspielgerät (z.B. CD-Player) als auch Instrument (z.B. E-Drumset, Keyboard oder Piano) verbunden werden. Hierbei ist je nach Buchse lediglich auf den Einsatz der korrekten 3,5 mm Klinke oder der 6,3 mm Klinke des Adapters zu achten.(Adapter liegt bei)

⚠ WARNUNG

Achten Sie auf die Lautstärke! Hören mit zu hohem Lautstärkepegel kann Ihr Gehör dauerhaft schädigen.

Wartung

Ihr Gerät erfordert keine besondere Wartung. Wenden Sie sich jedoch im Falle einer Fehlfunktion an ein zugelassenes Servicecenter oder den Hersteller

Reinigung

Verwenden Sie zur Reinigung ein fusselndes und nur leicht feuchtes Tuch.

Technische Spezifikationen:

System: dynamische Kopfhörer

Nennimpedanz: 32 Ohm

Lautsprecher: Stereo

Frequenzbereich: 20-20000 Hz

Empfindlichkeit: 110dB SPL

WEEE-Erklärung

(Waste of Electrical and Electronic Equipment)

Ihr Produkt wurde unter Verwendung hochwertiger Materialien und Komponenten entwickelt und hergestellt, die recycelbar und wiederverwendbar sind. Das Symbol bedeutet, dass Ihr Produkt am Ende seiner Lebensdauer vom Hausmüll getrennt entsorgt werden muss.

Entsorgen Sie dieses Gerät bei Ihrer örtlichen Sammelstelle oder Recyclingstelle. Bitte helfen Sie mit, die Umwelt zu schützen, in der wir alle leben.

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Classic Cantabile KH-238 Headphones HiFi dynamic

Item number: 00016331



User Manual

Version: 10.2024

Thank you for choosing this product.

To ensure that you are fully satisfied with the Classic Cantabile headphones, read this manual carefully and understand these instructions before using our product. Keep these operating instructions in a safe place. The operating instructions must be passed on to all subsequent users.

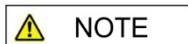


Please carefully follow the instructions!



WARNING

The signal word **WARNING** indicates the dangers that can lead to serious injuries without precautionary measures.



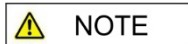
NOTE

The signal word **NOTE** indicates general precautionary measures that should be observed when handling the product.



NOTE

Images and screen shots in this manual may differ slightly from the appearance of the actual product as long as this has no negative effects on the technical properties and safety of the product.



NOTE

All personal formulations in these operating instructions are to be considered gender-neutral.

These operating instructions apply to persons who have been supervised by a person responsible for their safety or who have been instructed in the operation of the device and have demonstrated that they can handle the device.



WARNING

Children should be supervised to ensure that they do not play with the device.

Do not leave children unattended. The product is not a toy!

All information in this operating manual has been checked to the best of our knowledge and belief. However, neither the author nor the publisher can be held liable for any damage associated with the use of this manual.

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Detailed safety information:**⚠ NOTE**

- Read these instructions. Keep these instructions.
- Heed all warnings. Follow all instructions.
- Do not use this device near water.
- Only clean the device with a dry cloth.
- Do not block any ventilation openings.
- Do not place the device near heat sources such as radiators, stoves or other devices that generate heat.
- Pay attention to the volume! Hearing at a high-volume level can permanently damage your hearing.
- Contact qualified service personnel for all repair / maintenance work. Do not open the device or the housing yourself. Maintenance is required if the device has been damaged in any way, e.g., if the power cord or plug is damaged, liquid has been spilled or objects have fallen into the device, the device has been exposed to rain or moisture, is not working properly or has been dropped.

**Function:**

The headphones can be connected to every playing device (e.g., CD-players) as well as instrument (e.g., E-drumset, keyboard or piano). It is only important to note which jack plug is required for the used device: the 3.5 mm jack or the 6.3 mm jack of the adapter. (Adapter is included in delivery)

⚠ WARNING Pay attention to the volume! Hearing at a high-volume level can permanently damage your hearing.

Maintenance

Your device does not require any special maintenance. However, in the event of a malfunction, contact an approved service center or the manufacturer

Cleaning

Use a lint-free and only slightly damp cloth for cleaning.

Technical specifications:

System: dynamic headphones

Impedance: 32 Ohm

Speakers: Stereo

Frequency range: 20-20000 Hz

Sensitivity: 110dB SPL

WEEE declaration (Waste of Electrical and Electronic Equipment)

Your product has been developed and manufactured using high quality materials and components that are recyclable and reusable. The symbol means that your product must be disposed of separately from household waste at the end of its service life.

Dispose of this device at your local collection or recycling centre, please help protect the environment we all live in.

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- Spannzangen und Zugentlastung
- Niedrige Leiterkapazität
- 3 Jahre Garantie
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- High density copper shield
- Highly flexible and durable
- Soldered by hand
- Acid and oil proof
- Chuck type strain relief
- Low capacitance
- 3 years warranty



FR

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M-AUDIO®

air
192|14

User Guide

English (3 – 7)

Guía del usuario

Español (8 – 13)

Guide d'utilisation

Français (14 – 19)

Guida per l'uso

Italiano (20 – 25)

Benutzerhandbuch

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Appendix

English (33 – 34)

User Guide (English)

Introduction

Thank you for purchasing the AIR 192|14. At M-Audio, we know how serious music is to you. That's why we design our equipment with only one thing in mind—to make your performance the best it can be.

Box Contents

AIR 192|14
Power Adapter
USB-C to USB-C Cable
USB-C to USB-A Cable
(2) 1/8" (3.5 mm) to MIDI Adapters
Software Download Cards
User Guide
Safety & Warranty Manual

Support

For the latest information about this product (documentation, technical specifications, system requirements, compatibility information, etc.) and product registration, visit [m-audio.com](https://www.m-audio.com).

For additional product support, visit [m-audio.com/support](https://www.m-audio.com/support).

Setup

Audio Setup

Windows users: Before connecting AIR 192|14 to your computer, install the driver:

1. Go to [m-audio.com/drivers](https://www.m-audio.com/drivers) and download the latest AIR 192|14 driver for your operating system.
2. Open the file you downloaded and double-click the driver installer file.
3. Read the End-User License Agreement, then check the box to Agree and click **Next** to continue.
4. Click **Install** to begin the installation. You may be asked to connect AIR 192|14 to your computer during the installation process. Click **Install** on any further system messages during the installation.
5. Once the installation is complete, click **Finish**.

To use the Windows driver, open the **M-Audio AIR 192|14 Control Panel**. Here, you can set your **Preferred Buffer Size** and **Sample Rate**.

M-AUDIO

To set AIR 192|14 as your default playback device, follow the directions below based on your computer's operating system.

Windows:

1. Use the included USB cable to connect the AIR 192|14 to your computer. Press the **power button** to power on AIR 192|14.
2. In the Taskbar, locate the **Volume Control** "speaker" icon. Right-click the speaker and select **Playback Devices**.
Alternatively, go to **Start Menu > Control Panel** (or **Settings > Control Panel** in Classic View) **> Hardware and Sound > Sound**.
3. In the **Windows Sound** control panel select the **Playback** tab and select **AIR 192|14** as the default device.
4. Click the **Recording** tab and select **AIR 192|14** as the default device.
5. Click **Properties** in the lower right-hand corner.
6. In the new window, click the **Advanced** tab and select **2-channel, 24-bit, 48000 Hz (Studio Quality)** as the default format.
7. Uncheck both boxes under **Exclusive Mode**.
8. Click **OK** to close the Properties window.
9. Click **OK** to close the Sound control panel.

macOS:

1. Use the included USB cable to connect the AIR 192|14 to your computer. Press the **power button** to power on AIR 192|14.
2. Go to **Applications > Utilities > Audio MIDI Setup**.
3. In the **Audio Devices** window, select **AIR 192|14** in the left column.
4. Right-click **AIR 192|14**, and select **Use this device for sound input**.
5. Right-click **AIR 192|14**, and select **Use this device for sound output**.
6. Quit Audio MIDI Setup.

Setting Up AIR 192|14 with Your Software

Setting Up AIR 192|14 with Pro Tools | First M-Audio Edition

1. Use the included USB cable to connect the AIR 192|14 to your computer.
2. Open Pro Tools | First M-Audio Edition.
3. Go to **Setup > Playback Engine...**
4. Open the **Playback Engine** dropdown menu and select **M-Audio AIR 192|14**.

Note: You may need to save and restart your project.

5. Select your **Sample Rate** and then click **OK** to close the Setup window.
6. Go to the **Setup > I/O** and select **M-Audio AIR 192|14** for the **Input** and **Output** devices.

You can now add tracks to send and receive audio and MIDI from sources connected to AIR 192|14 inputs and stream recorded audio back through the AIR 192|14 outputs.

Setting Up AIR 192|14 with Ableton Live Lite

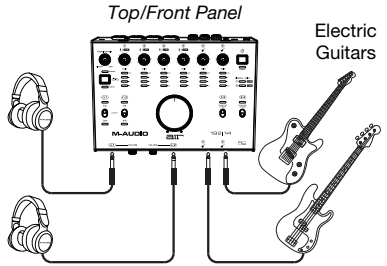
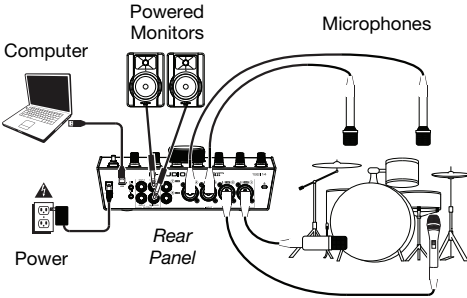
1. Use the included USB cable to connect the AIR 192|14 to your computer.
2. Open Ableton Live Lite.
3. Go to **Preferences > Audio** tab.
4. Click on **Driver Type** to select **CoreAudio** (Mac) or **ASIO** (Windows).
5. Select **AIR 192|14** in the **Input** and **Output Config** section.
6. Select your **Sample Rate** and then close the audio preferences window.

You can now add tracks to send and receive audio and MIDI from sources connected to AIR 192|14 inputs and stream recorded audio back through the AIR 192|14 outputs.

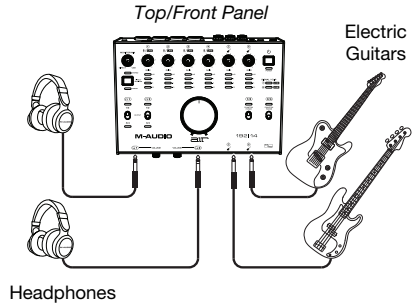
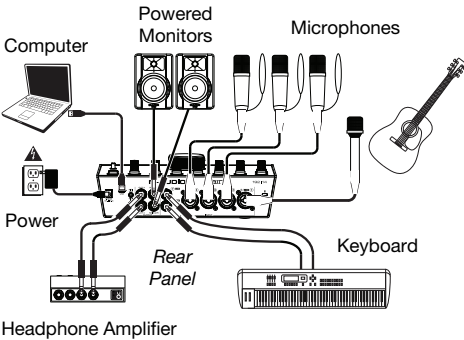
Connection Diagrams

Items not listed under [Introduction > Box Contents](#) are sold separately.

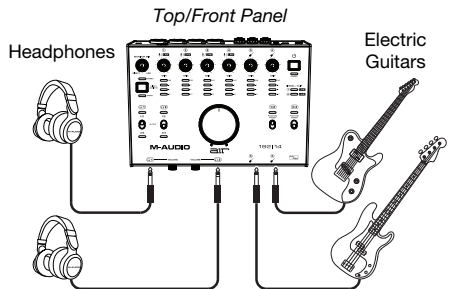
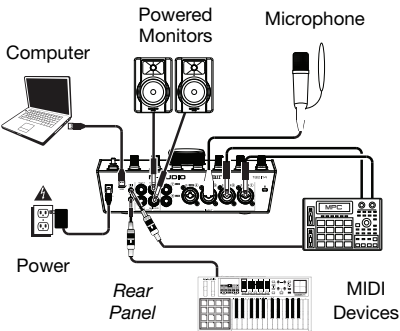
Example 1



Example 2



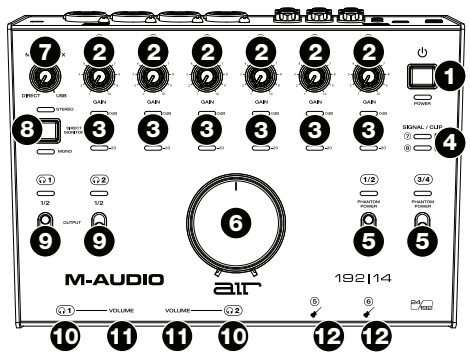
Example 3



Features

Top Panel

- Power Button:** Press this button to power the AIR 192|14 on or off. The Power LED below this button lights up when the unit is powered on.
- Input Gain:** Adjusts the input's gain level. Set this knob so the corresponding **LED Meter** (located below the knob) displays a "healthy" level (yellow LED is lit) during performance—but not so high that the meter frequently "clips" or peaks (red LED is lit), causing distortion in the audio.
- LED Meters (Inputs 1–6):** Indicates the input signal level from the **Combo Inputs and Instrument Inputs**.
- LED Meters (Inputs 7–8):** Indicates the input signal level from the **Line Inputs**. These LEDs are green when a signal above -20 dBFS is present, and turn red when the signal "clips" or peaks.
- +48 V (Phantom Power) Switches:** These switches activate and deactivate phantom power for **Combo Inputs 1–2** or **3–4**. When activated, phantom power supplies +48 volts to the selected inputs. Please note that most dynamic microphones and ribbon microphones do not require phantom power, while most condenser microphones do. Consult your microphone's documentation to find out whether it needs phantom power.
- Monitor Level:** Adjusts the output volume of **Main Outputs**, which should be connected to your powered monitors or amplifier system.
- Monitor Mix:** Adjusts the mix of the audio signal from your inputs (**Direct**) and the audio output of your computer (**USB**) that will be sent to the **Main Outputs** and **Headphone Outputs**.



Note: When set to **Direct**, the left channel will be a sum of **Inputs 1, 3, 5, and 7** and the right channel will be a sum of **Inputs 2, 4, 6, and 8**. You can sum these left and right channels (to hear all inputs as a single summed mono signal) by putting the **Direct Monitor** button in its depressed position.

This knob is useful for dealing with "latency" when you are recording in your DAW. Latency is a delay in sound that may occur between the incoming sound (playing your instrument, singing, etc.) and outgoing sound (when you hear it in the DAW).

Latency is often the result of the "buffer size" setting, which is usually located in your DAW's Preferences, Options, or Device Setup menu. Higher buffer sizes generally result in higher latency. In some cases, lower buffer size settings can consume a lot of your computer's CPU and cause audio glitches. To prevent these audio glitches, you will need to use a higher buffer setting, and this may result in latency.

If you are experiencing latency when recording, adjust the knob towards the **Direct** position to increase the blend of unprocessed audio from your inputs directly to your **Main Outputs** and **Headphone Outputs**. This will let you hear the incoming audio from your inputs without latency while still being able to hear the audio from your DAW. When listening to the playback, adjust the knob all the way to the **USB** position.

If your computer is powerful enough, you may be able to set the buffer size setting in your DAW low enough such that you may never need to listen to the direct audio signal from your inputs. In this case, set the **Monitor Mix** knob all the way to the **USB** position to monitor only the audio output of your DAW.

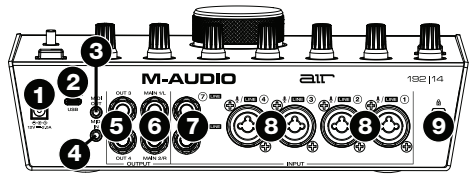
8. **Direct Monitor Selector:** Leave this switch in the raised position (blue **Stereo** LED is lit) to monitor the direct input signal with **Inputs 1, 3, 5, and 7** in the left channel and **Inputs 2, 4, 6, and 8** in the right channel. This is useful if you want to directly monitor a stereo mic setup such as a stereo signal from a keyboard, or overhead drum mics. Put this switch in its depressed position (green **Mono** LED is lit) to monitor the direct input signal with all inputs summed and heard equally on each side. This is useful for monitoring a guitar or vocal mic signal. This switch does not affect the DAW playback or how your sound is recorded into your DAW; it affects only how you hear the input signal in the **Headphone Outputs** (when the **Headphone Source Selector** is set to **1/2**, and the **Monitor Mix** is set to anything besides **USB**) and **Monitor Outputs**.
9. **Headphone Source Selector:** These switches select which outputs (on the rear panel) are also sent to the Headphone Outputs: **Main Outputs 1–2 (1/2)** or **Outputs 3–4 (3/4)**.
10. **Headphone Outputs** (front panel): Connect 1/4" (6.35 mm) TRS headphones to these outputs. The mix you hear from these outputs will be determined by the **Headphone Source Selector**, **Monitor Mix** knob, **Direct Monitor Selector**, and associated **Headphone Volume** knob.
11. **Headphone Volume** (front panel): Adjusts the output volume of the **Headphone Outputs**.
12. **Instrument Inputs (5–6)** (front panel): Connect a guitar with a passive pickup or other high-impedance signal to these inputs with a 1/4" (6.35 mm) TS cable. View the input signal levels with the **LED Meters (Inputs 5–6)**.

Rear Panel

1. **Power:** Connect the included power adapter to this input. Use the **Power Button** to turn AIR 192|14 on or off.
2. **USB Port (Type C):** This connection will allow you to send audio and MIDI data to and from a computer. Use the included USB-C-to-USB-C or USB-C-to-USB-A cables to connect the AIR 192|14 to a computer. The AIR 192|14 requires a USB 2.0 connection (or higher).
3. **MIDI Out:** Use the included 1/8" (3.5 mm)-to-MIDI adapter and a standard five-pin MIDI cable to connect this MIDI Out to the MIDI In of an external MIDI device (e.g., a synthesizer, sequencer, drum machine, etc.).

Important: Do not connect audio devices (e.g., headphones, monitors, etc.) to this jack. Use the included 1/8"-to-MIDI adapter to connect MIDI devices only.
4. **MIDI In:** Use the included 1/8" (3.5 mm)-to-MIDI adapter and a standard five-pin MIDI cable to connect this MIDI In to the MIDI Out of an external MIDI device (e.g., a MIDI controller).

Important: Do not connect audio devices (e.g., headphones, monitors, etc.) to this jack. Use the included 1/8"-to-MIDI adapter to connect MIDI devices only.
5. **Outputs (3–4):** Use standard 1/4" (6.35 mm) TRS cables to connect these line outputs to a headphone amplifier, external signal processors like a compressor, etc. Their levels are automatically **+4 dBu**.
6. **Main Outputs (1–2):** Use standard 1/4" (6.35 mm) TRS cables to connect these outputs to your powered monitors, amplifier system, etc. The mix you hear from these outputs will be determined by the **Monitor Mix** knob and **Direct Monitor** button. The level of these outputs is controlled by the **Monitor Level** knob.
7. **Line Inputs (7–8):** Connect mixers and other line-level devices to these inputs using standard 1/4" (6.35 mm) TRS cables. View the input signal levels with the **LED Meters (Inputs 7–8)**.
8. **Combo Inputs (1–4):** Connect microphones, a guitar or bass with an active pickup, or line-level devices to these inputs. For microphones, use an XLR or 1/4" (6.35 mm) TRS cable. For a guitar or bass with an active pickup, use a standard 1/4" TS cable. For line-level signals, use a 1/4" TRS cable. View the input signal levels with the **LED Meters (Inputs 1–4)**.
9. **Kensington Lock Slot:** You can use this Kensington lock slot to secure AIR 192|14 to a table or other surface.



Appendix (English)

Technical Specifications

All specifications are measured at 20 kHz bandwidth.

Mic Inputs 1–4 (balanced XLR)	
Dynamic Range	113 dB (A-weighted)
THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
Frequency Response	20 Hz – 20 kHz (+/-0.2 dB)
Preamp EIN	-137 dBu (40 Ω source, A-weighted) -129 dBu (150 Ω source, unweighted)
Max Input Level	+14 dBu
Gain Range	62 dB

Line Inputs 1–4 (balanced 1/4" TRS)	
Dynamic Range	113 dB (A-weighted)
THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
Frequency Response	20 Hz – 20 kHz (+/-0.1 dB)
Max Input Level	+30 dBu
Gain Range	61 dB

Inst Inputs 5-6 (unbalanced 1/4" TS)	
Dynamic Range	110 dB (A-weighted)
THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
Frequency Response	20 Hz – 20 kHz (+/-0.1 dB)
Max Input Level	+16 dBu
Gain Range	59 dB
Input Impedance	~1 M Ω

Fixed Line Inputs 7–8 (balanced 1/4" TRS)	
Dynamic Range	113 dB (A-weighted)
THD+N	0.001% (1 kHz, +4 dBu, -1 dBFS)
Frequency Response	20 Hz – 20 kHz (+/-0.1 dB)
Max Input Level	+17 dBu

M-AUDIO

Line Outputs 1–2 (balanced 1/4" TRS)	
Dynamic Range	112 dB (A-weighted)
THD+N	0.002% (1 kHz, -1 dBFS)
Frequency Response	20 Hz – 20 kHz (+/-0.2 dB)
Maximum Output Level	+17 dBu

Fixed Line Outputs 3–4 (balanced 1/4" TRS)	
Dynamic Range	113 dB (A-weighted)
THD+N	0.002% (1 kHz, -1 dBFS)
Frequency Response	20 Hz – 20 kHz (+/-0.2 dB)
Maximum Output Level	+17 dBu

Headphone Outputs (stereo 1/4")	
Dynamic Range	111 dB (A-weighted, 32 Ω load)
THD+N	0.002% (1 kHz, -1 dBFS, 10 mW/channel into 32 Ω load)
Frequency Response	20 Hz – 20 kHz (+/-0.2 dB)
Maximum Power Delivered	160mW (<1% THD, 32 Ω load)
Maximum Output Level	+15 dBu (unloaded)
Impedance Range	32 Ω – 600 Ω

General	
Other Connectors	(1) 1/8" (3.5 mm) MIDI input (1) 1/8" (3.5 mm) MIDI output (1) USB Type-C port (1) Power adapter input
Power Adapter	12 VAC, 2 A, center-positive (included)
Dimensions (width x depth x height)	3.24" x 10.2" x 7.44" 8.22 x 25.9 x 18.9 cm
Weight	3.9 lbs. 1.8 kg

Specifications are subject to change without notice.

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