

Thunderbolt 3 Audio Interface

with QUAD Core Realtime UAD Processing



Apollo x4 Gen 2 Hardware Manual

Manual Version 240930



A Letter from Bill Putnam Jr.

Thank you for choosing this Apollo audio interface to become a part of your studio. We know that any new piece of gear requires an investment of time and money — and our goal is to make your investment pay off.

Universal Audio interfaces like the Apollo X Gen 2 Series exemplify a commitment to craftsmanship that we've forged over the past 60 years — from our original founding in the 1950s by my father, Bill Putnam Sr., to our current mission to combine the best of both classic analog and modern digital audio technologies.

Starting with its high-quality I/O and elite-class A/D and D/A conversion, Apollo X Gen 2's superior sonic performance serves as its foundation.

This is just the beginning however, as Apollo lets you power the full range of UAD plug-ins in real time, including classic mic preamps, EQs, compressors and limiters, reverbs, guitar amps, and much more. With more than 200 acclaimed UAD plug-ins at your fingertips, the sonic choices are limitless.*

At UA, we are dedicated to the idea that technology should serve the creative process, inspiring our customers to go further. These are the ideals my father embodied with his classic designs, and we believe this spirit lives on today in products like Apollo.

Please feel free to reach out to us via our website www.uaudio.com, and via our social media channels. We look forward to hearing from you, and thank you once again for choosing Universal Audio.

Sincerely,

Bill Putnam Jr.

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Introduction

Record hits with the world's most powerful desktop audio interface.

Produce larger sessions with our most powerful desktop Apollo. Featuring highest-resolution audio conversion, four Unison™ mic preamps, and realtime UAD processing — letting you record through plug-ins from Neve, API, Manley, Auto-Tune, and hundreds more — Apollo x4 levels up your studio with legendary UA sound, built to inspire your next collaboration.

- Produce music with elite-class Apollo X Gen 2 converters, and hear every detail with unprecedented dynamic range
- Use four Unison preamps to get the tone and feel of iconic analog gear from Neve, API,
 Manley, Fender, and more
- Record through UAD plug-ins in realtime with onboard QUAD Core DSP
- Work faster with new UAD Console features including Auto-Gain, Plug-In Scenes, Monitor Controller, Immersive Audio, and more
- Mix with confidence in any room or through headphones using Apollo Monitor Correction by Sonarworks[®]
- Get included UAD plug-ins from Auto-Tune, Fairchild, Teletronix, and more with Essentials+ or Studio+ Editions

Get Our Most Powerful Desktop Apollo Ever

We built Apollo x4 to expand on the gold-standard Apollo Twin, the audio interface that single-handedly revolutionized home studio recording. With expanded I/O, elite-class 24-bit/192 kHz audio conversion, and the widest dynamic range to date, Apollo x4 puts the sound of the stars in reach for your next collaboration.

Record Through Iconic Preamps

With four Unison™ preamps and dual front panel Hi-Z instrument inputs, Apollo x4 lets you track through emulations of classic gear from Neve, Manley, API, Fender, and dozens more, giving you the rich analog textures used on the greatest recordings of our time.

Hear the Details Like Never Before

Now in its Gen 2 design, Apollo x4 features our highest-resolution D/A converters ever. This enhanced monitoring — when paired with features like Apollo Monitor Correction by Sonarworks — means you'll hear the most accurate representation of your recordings when mixing through monitors or headphones.

Mix with Authentic Analog Sounds

Out of the box, Apollo x4 gives you the tools used in the world's biggest recording studios. Along with included LA-2A compressors, Pultec EQs, and amps from Marshall and Ampeg — you can tap into the entire library of over 200 UAD plug-ins to unlock proven hit-making sounds.

Find Your Perfect Workflow

Just like many pro studios, where an analog console is the heart of the workflow, Apollo x4 has a powerful mixing engine where you control plug-in routing and monitoring. And with the latest features like Auto-Gain, Bass Management, and Plug-In Scenes, it's easy to find a flow that fits your needs.

A Hybrid System for Your Mission

Combine Apollo x4's DSP processing with native processing from your computer to produce large sessions with complex plug-in chains — a powerhouse hybrid workflow that outpaces any native-only recording setup.

Expand Your Studio as You Grow

Build out your dream studio by linking up to four Thunderbolt Apollo interfaces for up to 128 channels of premium I/O, and control it all from your desktop using Apollo x4. So no matter how far your music takes you, an Apollo will always be in reach.



includes the Essentials+ or Studio+ Editions. Other UAD plug-ins available separately.

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Apollo x4 Gen 2 Features

Key Features

- 12 x 18 Thunderbolt 3 audio interface with QUAD Core DSP plug-in processing
- Four Unison mic preamps, two Hi-Z instrument inputs, optical Toslink I/O (ADAT or S/PDIF)
- Two 1/4" monitor outs, four 1/4" line outs (ALT 1, 2), two 1/4" TRS headphone outs
- Elite-class Apollo X Gen 2 converters with 24-bit / 192 kHz resolution
- Enhanced D/A for critical monitoring and playback with 129 dB dynamic range
- Calibrate your main monitor and headphone outputs with Apollo Monitor Correction powered by Sonarworks®
- Fully-featured monitor controller with alternate speaker switching and integrated talkback for easy communication with talent
- Updated UAD Console app featuring Auto-Gain, Plug-In Scenes, subwoofer integration with Bass Management, immersive audio support, and more
- Onboard DSP supports over 200 UAD plug-ins via VST, AU, and AAX 64 formats in all major DAWs
- Includes up to 50+ UAD plug-ins with Essentials+ or Studio+ Editions
- Compatible with LUNA, Logic Pro, Pro Tools, Cubase, Ableton Live, and more
- Expandable with Thunderbolt Apollo interfaces and Dante via Apollo x16D
- Free industry-leading technical support from knowledgeable audio engineers



All Features

Audio Interface

- Sample rates up to 192 kHz at 24-bit word length (96 kHz max on S/PDIF I/O)
- Up to 12 x 18 simultaneous input/output channels
 - Four channels of analog-to-digital conversion via:
 - Four balanced mic/line inputs
 - Two Hi-Z instrument inputs
 - 10 channels of digital-to-analog conversion via:
 - Stereo monitor outputs
 - Two stereo headphone outputs
 - Four line outputs
 - Up to eight channels of digital optical inputs and outputs via:
 - Eight channels ADAT optical with S/MUX for high sample rates, or
 - Two channels S/PDIF optical with sample rate conversion

Microphone Preamplifiers

- Four high-resolution, ultra-transparent, digitally-controlled analog mic preamps
- Unison[™] technology for exacting emulations with Unison-enabled UAD plug-ins
- Front panel and software control of all preamp parameters
- Low cut filter, 48V phantom power, 20 dB pad, polarity inversion, and stereo linking

Monitoring

- Independently-addressable stereo left/right monitor outputs
- Two independently-addressable stereo headphone outputs
- Four independently-addressable line outputs can be used for additional cue mixes
- Front panel control of level, mute, dim, mono, alternate speakers, and talkback
- Built-in talkback microphone for communication and recording
- All outputs are DC coupled

UAD-2 Inside

- QUAD core DSP featuring four SHARC® processors
- Realtime UAD Processing on all analog and digital inputs
- Same features and functionality as other UAD-2 devices when used with DAW
- Can be combined with other UAD-2 devices for increased mixing DSP
- Complete UAD plug-ins library available at the UA online store

Software

UAD Console application

- Enables tracking and/or monitoring with Realtime UAD Processing
- Remote control of Apollo x4 features and functionality
- Virtual I/O for routing DAW tracks through UAD Console
- Two independent stereo Auxiliary buses

Console Recall plug-in

- Saves Apollo x4 configurations inside DAW sessions for easy recall
- Facilitates control of Apollo x4 monitoring features from within the DAW
- VST, AAX 64, and Audio Units plug-in formats

UAD Meter & Control Panel application

Configures global UAD settings and monitors system usage

Other

- Attractive and durable desktop form factor
- Locking power supply prevents accidental disconnection
- Easy firmware updates
- One year warranty includes parts and labor

Package Contents

- Apollo x4 Gen 2 audio interface
- External power supply and region-specific AC cable (USA, EU, UK, ANZ, or Japan)
- Getting Started URL card

Operational Overview

Audio Interface

First and foremost, Apollo x4 Gen 2 is a premium 12 x 18 Thunderbolt 3 audio interface with elite-class 24-bit/192 kHz audio conversion. Apollo x4 connects to the outputs and inputs of other audio gear, and performs analog-to-digital (A/D) and digital-to-analog (D/A) audio conversions on the gear's signals. The digital audio signals are routed into and out of the host computer via the high-speed PCle protocol, which is carried on a single Thunderbolt 3 cable.

Apollo x4 leverages Universal Audio's expertise in DSP acceleration, UAD Powered Plug-Ins, and analog hardware design by integrating the latest cutting edge technologies in high-performance A/D-D/A conversion, DSP signal reconstruction, and connectivity. Apollo x4 acts as an audio interface with integrated DSP effects for tracking and monitoring, a fully integrated UAD-2 DSP accelerator for mixing and mastering, as well as a complete monitoring controller.

About Realtime UAD Processing

Apollo x4 has the ability to run UAD Powered Plug-Ins in realtime. Apollo's groundbreaking DSP + FPGA technology enable UAD plug-ins to run with latencies in the sub-2ms range, and multiple plug-ins can be stacked in series without additional latency. Realtime UAD Processing facilitates the ultimate sonic experience while monitoring and/or tracking.

Note: Apollo x4 DSP, as with other UAD-2 devices, can only load UAD Powered Plug-Ins, which are specifically designed to run on UAD-2 DSP accelerators. Native (host CPU-based) plug-ins cannot run on the UAD-2 DSP.

UAD Console Software

The included UAD Console companion software application runs on the host computer and is used to control Apollo x4 mixing and input monitoring with Realtime UAD Processing, access the audio interface I/O settings, and more. UAD Console's analog-style workflow is designed to provide quick access to the most commonly needed features in a familiar, easy-to-use mixer interface.

Realtime UAD Processing is a special function that is available only within UAD Console. All of Apollo x4's analog and digital inputs can perform Realtime UAD Processing simultaneously, and UAD Console inputs with (or without) Realtime UAD Processing can be routed into the DAW for recording.

UAD Console controls Apollo x4's digital mixer so you can monitor Apollo x4's inputs (with or without Realtime UAD Processing) without using any other audio software such as a DAW.

UAD Console is integral to unleashing the power of Apollo x4. For complete details about how to use UAD Console and Realtime UAD Processing, refer to the UAD Console Manual.

UAD Powered Plug-Ins in a DAW

Apollo x4 and UAD plug-ins can also be used with a DAW without the use of UAD Console. UAD plug-ins loaded within the DAW operate like other (non-UAD) plug-ins, except the processing occurs on the Apollo x4 DSP instead of the host computer's processor. In this scenario, UAD plug-ins are subject to the latencies incurred by I/O buffering.

For details about using UAD Powered Plug-Ins in a DAW, see the UAD System Manual.

Standalone Use

Although the UAD Console application is required to utilize all Apollo x4 features, the hardware unit can be used as a digital mixer with limited functionality without a Thunderbolt 3 connection to a host computer.

All currently active I/O assignments, signal routings, and monitor settings are saved to internal firmware when Apollo x4 is powered down and persist when power is re-applied. Therefore the last-used settings are always available even when a host computer is not connected.

Note that UAD plug-in instantiations are not retained on power down, because the plug-in files reside on the host computer. However, if UAD plug-ins are active when Apollo x4's connection to the host system is lost (if the Thunderbolt 3 cable is unplugged), the current UAD plug-in configurations remain active for processing until Apollo x4 is powered down.

Note: Standalone use is unavailable when cascading multiple Apollo units.



About Apollo Documentation

Documentation for Apollo and UAD Powered Plug-Ins are separated by areas of functionality, as described below. All user manuals are available at help.uaudio.com.

Some manual files are in PDF format. PDF files require a free PDF reader application such as Preview (macOS) or Edge (Windows).

Apollo Hardware Manuals

Each Apollo model has a unique hardware manual. The Apollo hardware manuals contain complete hardware-related details about one specific Apollo model. Included are detailed descriptions of all hardware features, controls, connectors, and specifications.

Note: Each hardware manual contains the unique Apollo model in the file name.

Apollo Software Manual

The Apollo Software Manual is a companion guide to the Apollo hardware manuals. It contains detailed information about how to configure and control Apollo software features. Refer to the Apollo Software Manual to learn how to operate the software tools and integrate Apollo's functionality into the DAW environment.

Note: Each Apollo connection protocol (Thunderbolt, FireWire, USB) has a unique software manual.

UAD Console Manual

UAD Console is Apollo's companion software, for controlling up to four Apollo units and their digital mixing and low-latency monitoring capabilities. UAD Console is where you configure and operate Realtime UAD Processing and Unison with UAD-2 plug-ins.

UAD Plug-Ins Manual

The features and functionality of all individual UAD-2 Powered Plug-Ins is detailed in the UAD Plug-Ins Manual. Refer to that document to learn about the operation, controls, and user interface of each UAD-2 plug-in that is developed by Universal Audio.

Direct Developer Plug-In Manuals

UAD Powered Plug-Ins includes plug-in titles created by our Direct Developer partners. Documentation for these 3rd-party plug-ins are separate files written and provided by the plug-in developers. The file names for these plug-in manuals are the same as the plug-in titles.

UAD System Manual

The UAD System Manual is the complete operation manual for Apollo's UAD-2 functionality and applies to the entire UAD-2 product family. It contains detailed information about installing and configuring UAD devices, the UAD Meter & Control Panel application, buying optional plug-ins at the UA online store, and more. It includes everything about UAD except Apollo-specific information and individual UAD plug-in descriptions.

Accessing Documentation

Any of these methods can be used to access documentation:

- Choose Documentation from the Help menu within the UAD Console application
- Click the Product Manuals button in the Help panel within the UAD Meter & Control Panel application
- All manuals are available online at help.uaudio.com

Host DAW Documentation

Each Digital Audio Workstation application has its own particular methods for configuring and using audio interfaces and plug-ins. Refer to the host DAW's documentation for specific instructions about using audio interface and plug-in features within the DAW.

Tip: The LUNA application manual is available here.

Hyperlinks

Links to other manual sections and web pages are highlighted in blue text. Click a hyperlink to jump directly to the linked item.

Tip: Use the back button in the PDF reader application to return to the previous page after clicking a hyperlink.

Additional Resources

For additional resources, or if you need to contact Universal Audio for assistance, see the Technical Support page.

Quick Start

Before you can use Apollo x4, you need to complete these steps:

- 1. Connect to your computer with a Thunderbolt 3 cable (not included).
- 2. Connect to AC power.
- 3. Download and install the latest UAD software.
- 4. Register your Apollo hardware.
- 5. Authorize your UAD plug-ins.

Additionally, you'll want to learn these essential Apollo x4 operations:

- Connect to Input Sources and Monitor System How to connect your audio gear.
- Setting Hardware I/O Levels Learn how to adjust Mic/Line/Instrument input gain levels and monitor/headphone output volume levels.

This chapter will guide you through these steps. For assistance, see the Technical Support page.

Installation Notes

- Locate the interface on a flat surface so its feet will maintain airflow beneath the unit.
- The location should be sturdy enough to securely hold its weight and withstand the pressure of operating the top panel controls.
- Allow space at the front and rear of the unit for cable connections.
- Do not block the cooling vents on the bottom or sides of the unit.
- As with any sound system, the following steps are recommended to avoid audio spikes in your speakers and headphones:
 - 1. Power on the speakers last, after all other devices (including Apollo x4) are powered on.
 - 2. Power off the speakers first, before all other devices (including Apollo x4) are powered off.
 - 3. Remove headphones from ears before powering Apollo x4 on or off.

Connection Notes

Thunderbolt 3

- Apollo x4 must be connected via a Thunderbolt 3 cable (not included) to a computer that has an available Thunderbolt 3 port.*
- Apollo x4 cannot be bus powered via Thunderbolt 3. The included external power supply must be used.
- *With Mac computers only, Apollo x4 can be connected to Thunderbolt 1 and Thunderbolt 2 computer ports via the Apple Thunderbolt 3 to Thunderbolt 2 adapter.
 With Windows computers, connections to Thunderbolt 1 or Thunderbolt 2 ports are not supported. Visit our Knowledge Base for details.

About Thunderbolt 3 Ports and Cables

Important: Although Thunderbolt 3 always uses USB-C connectors, not all USB-C ports are Thunderbolt 3 ports. Similarly, not all USB-C cables are Thunderbolt 3 cables. Always connect Apollo x4 to a Thunderbolt 3 port with a Thunderbolt 3 cable.

USB-C is not Thunderbolt 3

Thunderbolt 3 uses USB-C connections to transfer data and power. However, USB-C is simply a connector type; it doesn't determine the type of data used by the connector. For example, USB-C connections can be used for Thunderbolt 3, USB 3.1, and other data protocols, so USB-C connections are not always interchangeable.

Does your USB-C connector support Thunderbolt 3?



To determine if a USB-C port or cable connector supports Thunderbolt 3, look for the Thunderbolt icon. The Thunderbolt icon on a USB-C port or cable means the connector supports Thunderbolt 3. Alternately, confirm Thunderbolt 3 compatibility with the device and/or cable manufacturer.



Thunderbolt icon on USB-C cable (left) and USB-C port (right)

Apollo Expanded

 When more I/O and/or DSP is needed, up to four Apollo interfaces and six UAD devices total can be cascaded together via Thunderbolt in a multiple-unit configuration. For complete details about multi-unit cascading, refer to the UAD Console Manual.

Note: A maximum of one Apollo desktop audio interface (Arrow, Apollo Twin, Apollo Twin Mkll, Apollo Twin X, or Apollo x4) can be combined within a single Thunderbolt system.

Hardware Setup

Connect to Computer*

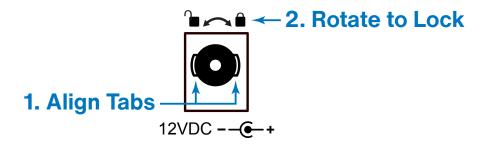
- 1. Connect a Thunderbolt 3 cable (not included) to the Thunderbolt 3 port on Apollo x4's rear panel.
- 2. Connect the other end of the Thunderbolt 3 cable to an available Thunderbolt 3 port on the computer.

Connect to Power

Caution: Before powering Apollo x4 on or off, lower the volume of the monitor speakers (if connected) and remove headphones from your ears.

- 3. Connect the included power supply to an AC outlet (Apollo x4 cannot be bus powered).
- 4. Connect the locking power supply barrel to the rear panel of Apollo x4. Align the two tabs on the power cable's connector to the notches on the input, then rotate the barrel clockwise to prevent accidental disconnection.

Important: After ensuring the locking barrel tabs are aligned with the chassis slots and the barrel is fully inserted, rotate the barrel to secure the connector.



5. Apply power to Apollo x4 using the rear panel's power switch. Apollo x4 is now ready for Software Setup.

Software Setup

Note: Items on this overview page are detailed in the Apollo Software Manual. See About Apollo Documentation for related information.

System Requirements

All system requirements must be met for Apollo to operate properly. Before proceeding with installation, view the system requirements.

Software Installation

The UAD software must be installed to use the hardware and UAD-2 plug-ins. The UAD software installer contains the Apollo software, drivers, and UAD-2 plug-ins.

UA Connect Application

You'll use UA Connect, our software management program, to obtain and install the UAD software and UAD Console. To get UA Connect, visit:

uaudio.com/downloads/uad

Note: For optimum results, connect and power on Apollo before installing the software.

Latest Software

To obtain the latest UAD software after initial registration, use the UA Connect application.

System Configuration

Details about setting up the Apollo system, including how to integrate with a DAW and related information, are included in the Apollo Software Manual.

UAD Console Application

The included UAD Console application is the software interface for the Apollo hardware. UAD Console controls Apollo and its digital mixing, monitoring, Unison, and Realtime UAD Processing features. UAD Console is also used to configure Apollo settings such as sample rate, clock source, reference levels, and more.

For complete details about how to operate UAD Console, see the online manual.

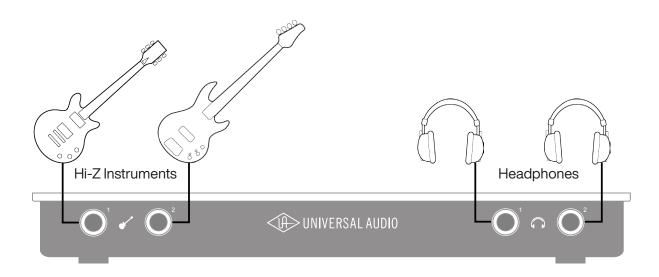
UA Support Videos

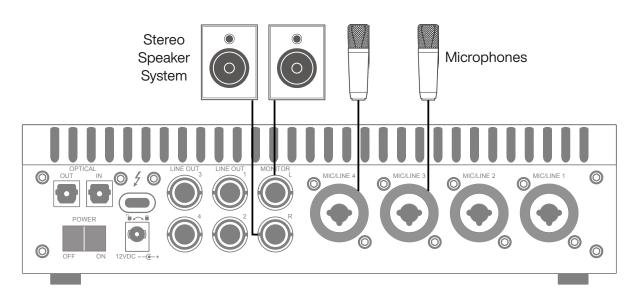
Informational videos are available to help you get started with Apollo at help.uaudio.com.

Connect to Input Sources and Monitor System

One typical Apollo x4 audio setup is illustrated below. For complete details about all of Apollo x4's connectors and controls, see Controls & Connectors.

Tip: In the example below, the mics are connected to channels 3 and 4, so that the mics and the instruments (which are connected to channels 1 and 2) can be used at the same time.





Typical Apollo x4 audio connections

Setting Hardware I/O Levels

This section explains how to set input gain levels for the hardware inputs (mic, line, and Hi-Z) and adjust volume levels for the hardware outputs (monitors and headphones). Refer to the Top Panel illustration for the control names and numbers mentioned below.

Caution: Before proceeding, lower the volume of the monitor speakers and remove headphones from your ears.

Set Input Gains

- 1. Select the input channel to be adjusted by pressing the PREAMP button (8) repeatedly until the Channel Selection Indicator (1) displays the desired channel (CH1, CH2, CH3, or CH4).
- 2. Select the input type (MIC or LINE) by pressing the INPUT button (6-a) until the Input Type indicator (2) displays the desired input jack* (see note below).
- 3. Adjust the input channel's gain by rotating the LEVEL knob (11) until the input meter for the channel (4) approaches maximum, but does not reach the red clip LED when the loudest input signal is present. If the level is too high to avoid clipping (when the red "C" LED illuminates), enable the PAD (6-d).
- 4. To set the input gain for the other input channels, repeat steps 1 3.

Adjust Output Volumes

- Select the output volume to be adjusted (monitor or headphones) by pressing the MONITOR button (12) until the desired output (HP1, HP2, or MONITOR) is displayed by the Selected Output Indicator (3).
- 2. Set the volume level by carefully increasing the LEVEL knob (11) until the desired volume is reached (you may need to adjust the volume of the speaker system).
- 3. To set the other output volumes (monitor or headphones), repeat steps 1 2.

Mute (and Unmute) Monitor Outputs

- 1. Select the monitor outputs by pressing the MONITOR button (12) until MONITOR is lit in the Selected Output Indicator (3).
- 2. Press the MUTE button (6-I) to mute the monitor outputs. The MONITOR Indicator (3) is red when the monitors are muted. When in MONITOR Mode, the Volume Level Indicator LEDs (2) are also red.
- 3. To toggle the monitor mute state, press the MUTE button (6-I) whenever MONITOR (3) is selected.

Notes

- *Hi-Z inputs are automatically selected, overriding the channel's Mic and Line inputs, when a ¼" mono TS (tip-sleeve) plug is connected to the channel's Hi-Z Instrument jack (14) on the front panel.
- To control input channels 1+2 or 3+4 simultaneously when a stereo source is connected, press the LINK button (6-f) when an input is selected (1).
- Line outputs 1 4 are accessed and controlled via software only (UAD Console or DAW).
- See About Apollo Documentation to learn more.

Controls & Connectors

Complete details about the Apollo x4 hardware controls and all connector jacks on the front and rear panels are provided in this chapter.

Note: To learn how to set input gain levels (MIC, LINE, and Hi-Z) and output volumes (monitors and headphones), see Setting Hardware I/O Levels in the Quick Start chapter.

Controls Overview

Some Apollo x4 controls have multiple functions. The function of each control depends on the current operating mode and the current settings within that mode. To control a particular function, the control must be activated.

Operating Modes

Apollo x4's top panel has two operating modes: *Preamp* and *Monitor*. The function and availability of the top panel controls vary depending on the active operating mode. The active mode is selected with the PREAMP and MONITOR buttons. Each mode is explained in greater detail below.

Note: All top panel functions can be operated concurrently (without switching modes) from within the companion UAD Console software application. See the UAD Console Manual for details.

PREAMP Mode

When Apollo x4 is in Preamp mode, the top panel controls are related to input functions only. To adjust input functions, press the PREAMP button to enter Preamp mode and activate the input channel controls.



Important: Apollo x4 must be in Preamp mode to change preamp gain levels and other input options.

Note: Output functions (monitor and headphone) cannot be performed in Preamp mode. Press the MONITOR button to perform output functions.

Preamp Channels

Apollo x4 has four independent analog input channels for A/D conversion. Each input channel has a preamplifier. The input channel preamplifiers are independently controlled when in Preamp mode.

Preamp Controls

Apollo x4 has one set of preamp input channel controls. The input channel controls adjust all preamp functions for the currently selected input channel only.

Selected Channel

The currently selected input channel (CH1, CH2, CH3, or CH4) is shown by the Select Channel Indicators at the upper left of the main display panel, above the input meters. When a channel is selected, its indicator is lit.



Note: The preamp controls adjust the functions for the currently selected channel.

Changing Channels

When in Preamp mode, press the PREAMP button repeatedly to change the selected input channel so its controls can be adjusted.

Input Source

The Mic, Line, or Hi-Z input source is routed into the channel's preamplifier. The active input source jack is shown by the indicators between the input meters. When an input is selected, its indicator is lit.



The MIC (XLR) or LINE (¼") combo inputs on the rear panel are selected by the pressing the INPUT button when the channel is selected. The HI-Z input (available on channels 1 and 2 only) is selected automatically when an instrument cable is plugged into a Hi-Z input on the front panel.

Note: Only one input jack at a time (Mic, Line, or Hi-Z) can be used as a channel's input source.

Preamp Gain

The Level knob adjusts the amount of preamp gain (input signal level) for the currently selected input channel.

Preamp Options

Each input channel has a set of preamp options. The preamp options for the currently selected input channel are activated using the row of six buttons when in Preamp mode.



The current state of the preamp options are indicated in the upper row of the options display area above the six option buttons. Available options are dim when inactive, bright when enabled, and unlit when unavailable.

Note: Not all preamp options are available with all input types. For specific details, see the Top Panel Controls section later in this chapter.

MONITOR Mode

When Apollo x4 is in Monitor mode, top panel controls are related to output functions only. To adjust output functions, press the MONITOR button to enter Monitor mode and activate the monitor and headphone controls.



Note: Input functions cannot be performed in Monitor mode. Press the PREAMP button to perform input functions.

Important: Apollo x4 must be in Monitor mode to change the volume of the monitor/headphone outputs and other output options.

Stereo Outputs

Apollo x4 has three stereo outputs that can be controlled with the top panel hardware: Monitor, Headphone 1 (HP1), and Headphone 2 (HP2). The volume of these stereo outputs are controlled when in Monitor mode.

Note: Line outputs 3 – 6 are controlled with software only.

Stereo Output Controls

The Level knob is used to set the volume level for each stereo output independently. The Level knob adjusts the volume for the currently selected stereo output. By switching the selected output with the MONITOR button, other output volumes can be adjusted.

Selected Stereo Output

The currently selected stereo output is shown by the HP1, HP2, and MONITOR indicators at the right of the main display, above the output meters. When a stereo output is selected, its indicator is lit.



Note: The Level knob adjusts the volume for the currently selected stereo output.

Changing Stereo Outputs

When in Monitor mode, press the MONITOR button repeatedly to change the selected stereo output so its volume can be adjusted.

Monitor Options

Apollo x4 has monitor options that perform the functions of a dedicated monitor controller. The monitor options are controlled using the row of six buttons when in Monitor Mode.

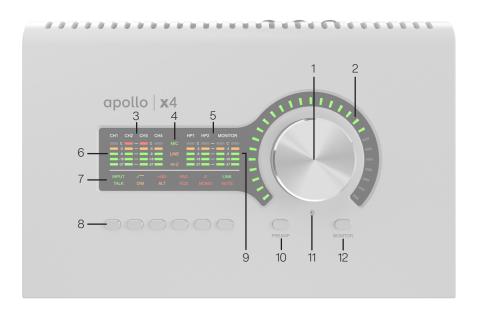


The current state of the monitor options are indicated in the lower row of the options display area above the six option buttons. Available options are dim when inactive, bright when enabled, and unlit when unavailable.

Note: Not all monitor options are always available. For specific details, see the Top Panel Controls section later in this chapter.

Top Panel

Refer to the illustration below for numbered control descriptions in this section.



Top panel elements

(1) Level Knob

The Level knob controls multiple functions. The knob's current function is selected with the PREAMP (10) and MONITOR (12) buttons.

When in PREAMP Mode, rotate clockwise to increase the amount of preamp gain for the currently selected input channel (3). When in MONITOR Mode, rotate clockwise to increase the monitor or headphones volume, depending on the stereo output currently selected (5) with the MONITOR (12) button.

Unison Integration



The Level knob can also be used to control Unison-enabled UAD preamp, guitar/bass amp, and pedal plug-in parameters. See the UAD Console Manual for complete Unison details.

(2) Preamp Gain & Volume Level Indicator LEDs

The LEDs surrounding the Level knob indicate the relative level of the selected function (either input channel preamp gain or monitor/headphone volume).

Note: The Volume Level Indicator LEDs are RED when MONITOR (5) is selected and MUTE (8-I) is enabled.

(3) Channel Selection Indicators

The currently selected input channel is indicated by the lit channel name (CH1, CH2, CH3, or CH4) above its input meter. Press the PREAMP button (10) to change the selected input channel.

(6) Input Meters

The four input meters display signal levels for each of the analog input channels. Reduce a channel's preamp gain (see Set Input Gains) if its red clip LED illuminates.

(5) Input Source Indicators

These indicators show which input source jack (MIC, LINE, or HI-Z) is active for the selected input channel. Use the Input Select button (8-a) to switch between the MIC (XLR) and LINE (1/4") rear panel combo jack inputs. The Hi-Z input is selected automatically when an instrument cable is plugged into the Hi-Z jack on the front panel.

(11) Talkback Microphone

The built-in talkback mic is located inside of this hole. The talkback function is configured in the companion UAD Console software and can be activated with the TALK button (8-g) when Monitor mode is active.

Caution: The talkback microphone is sensitive. To avoid equipment damage, do not insert any object into the mic hole, apply pressurized air into the mic hole, or use a vacuum over the mic hole.

(10) PREAMP Button

Press this button to enter PREAMP Mode and activate the input channel controls. Press again change the selected input channel (3).

(5) Selected Stereo Output

These indicators display which stereo output (MONITOR, HP1, or HP2) is currently selected for volume control with the Level knob (1). Press the MONITOR button (12) to change the selected stereo output (you may need to push it more than once).

Note: The MONITOR indicator is RED when the monitor outputs are muted.

(9) Stereo Output Meters

These meters display the main stereo signal output bus levels.* The main output bus levels are independent of monitor and headphone volume levels. Reduce levels feeding the output(s) if a red "C" (clip) LED at the top of the Output Meters illuminates.

*Exception: If a HP output is currently selected on Apollo x4 and the HP Source within the CUE OUTPUTS window in UAD Console is set to the same HP output, these output meters indicate the level being sent to the headphone bus via UAD Console's headphone sends and/or the DAW.

(12) Monitor Button

Press this button to enter MONITOR Mode and activate the monitor and headphone controls. Press again to change the currently selected stereo output so it can be adjusted with the Level knob (1).

Note: The Selected Stereo Output Indicators (5) determine which volume (MONITOR, HP1, or HP2) can be controlled with the Level knob (1).

(7) Options Display

This panel displays the state of the preamp and monitor options, which are controlled by the six Option Buttons (8).

In Preamp mode, the upper row displays the preamp options and the lower row is unlit. In Monitor mode, the lower row displays the monitor options and the upper row is unlit.

(8) Option Buttons

Each of the six Option Buttons has dual functions. In Preamp mode, the buttons control the preamp options for the currently selected input channel. In Monitor mode, the buttons control the monitor and headphone options. The individual options for both modes are detailed in this section.

Unison Integration



In Preamp mode, the Option Buttons can also be used to control Unison-enabled UAD preamp, guitar/bass amp, and pedal plug-in parameters. See the UAD Console Manual for complete Unison details.



Options Display (7) and Option Buttons (8)

Preamp Options

When in PREAMP Mode, the Option Buttons control the preamp options (described as a – f below) for an input channel when that channel is selected (3). Press the PREAMP button (10) to enter Preamp mode and change the preamp options for the currently selected channel.

A preamp option is active when its indicator in the upper row of the Options Display (7) is lit, and inactive when its indicator is dim. If the indicator is unlit, the option is unavailable.

Note: In MONITOR mode, the preamp options cannot be modified and the upper row of the Options Display is unlit.



Preamp options

(a) INPUT Select

Selects the active input source jack for the currently selected channel. The current selection is displayed by the Input Source Indicators (4).

Press to alternate between the MIC (XLR) and LINE (¼") combo inputs on the rear panel. The Hi-Z input is selected automatically whenever a ¼" mono TS (tip-sleeve) plug is connected to the channel's front panel Hi-Z Instrument jack (13). If MIC/LINE cannot be selected, unplug the cable in the Hi-Z jack.

Note: Hi-Z input is available for channels 1 and 2 only.

(b) FILTER

Enables a low cut (high pass) rumble filter with a cutoff frequency of 75 Hz.

(c) +48V

Enables +48-volt phantom power for the mic input. Phantom power is typically needed for condenser microphones. +48V is available for the microphone (XLR) inputs only.

Caution: To avoid potential equipment damage, disable +48V phantom power on the input channel before connecting or disconnecting its XLR input.

(d) PAD

Attenuates (lowers) the XLR mic input signal level by 20 dB. PAD is not available for the line inputs or the Hi-Z instrument inputs.

(e) POLARITY Ø

Inverts the polarity (aka "phase") of the input signal. Polarity inversion can help reduce phase cancellations when more than one microphone is used to record a single source.

(f) LINK

Links the controls of adjacent input channels (1+2 or 3+4) to create a stereo input pair. When channels are linked, preamp control adjustments are applied to both channels.

Note: Only the same type of inputs can be linked (Mic+Mic or Line+Line). The Hi-Z inputs cannot be linked.

Monitor Options

When in MONITOR Mode, the Option Buttons control the monitor options (described as g – h below). Press the MONITOR button (12) to enter Monitor mode and enable the monitor options.

A monitor option is active when its indicator in the lower row of the Options Display (7) is lit, and inactive when the indicator is dim. If the indicator is unlit, the option is unavailable.

The TALK, DIM, ALT, and FCN functions are configured in the companion UAD Console software application. See the UAD Console Manual for details.

Note: In Preamp mode, the monitor options cannot be modified and the lower row of the Options Display is unlit.



Monitor options

(g) TALK

Activates the built-in talkback microphone and the DIM function. Press and release the button quickly to latch the function. To momentarily activate the function and deactivate when the button is released, press for longer than 0.5 seconds.

(h) DIM

Reduces the monitor output volume level. The amount of DIM attenuation is set in the companion UAD Console software.

Press and release the button quickly to latch the function. To momentarily activate the function and deactivate when the button is released, press for longer than 0.5 seconds.

(i) ALT (Alternate)

Switches the main monitor mix to an alternate set of outputs. This function is only available when the ALT COUNT setting in the Settings>Hardware panel within the companion UAD Console software is set to a non-zero value.

(j) FCN (Function)

This switch can be assigned to control one of three monitoring functions. FCN is only available when Apollo x4 is combined with other Thunderbolt-equipped Apollo models in a multi-unit cascading configuration.

(k) MONO

Sums the left and right signals of the stereo monitor mix into a monophonic signal. MONO applies to the monitor outputs only. It does not apply to the headphone outputs.

(I) MUTE

Mutes the monitor outputs. When MUTE is active, the MONITOR Selected Indicator (5) is always lit RED (including when in Preamp mode). When MUTE is active in Monitor mode, the Volume Level Indicators (2) are also RED.

Note: MUTE does not apply to the headphone outputs. Headphone outputs cannot be muted.

Front Panel

Refer to the illustration below for numbered control descriptions in this section.



Front panel elements

(13) Hi-Z Instrument Inputs

These are the Hi-Z inputs for channels 1 and 2. Connect any guitar, bass, or other high impedance instrument here. These jacks automatically override the mic and line inputs for the channel.

Levels for the Hi-Z inputs are set using the same method as the mic and line inputs.

Note: These jacks accept 1/4" mono TS (tip-sleeve) plugs only.

(14) Headphone Outputs

These are the stereo outputs for headphones 1 and 2. The jacks accept ¼" stereo headphones. The volume of each headphone output is independently controlled with the Level knob (1) when HP1 or HP2 is selected (5) with the MONITOR button (12).

Side Panel

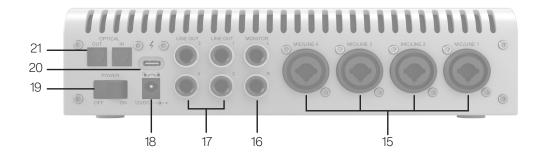
Kensington Security Slot (not shown)

The anti-theft security slot on the side panel connects to any standard Kensington lock.

Rear Panel

Refer to the illustration below for numbered control descriptions in this section.

Note: All rear panel 1/4" jacks can accept unbalanced TS (tip-sleeve) or balanced TRS (tip-ring-sleeve) plugs.



Rear panel elements

(15) Mic/Line Combo Inputs

The jacks for preamp channels 1 – 4 accept either a male XLR plug for connecting to the mic input, or a ¼" phone plug for connecting to the line input.

The input jack that is used for the preamp channel (mic or line) is specified with the Input Select button (8-a).

Caution: To avoid potential equipment damage, disable +48V phantom power on the channel before connecting or disconnecting its XLR input.

(16) Monitor Outputs

Connect the powered monitor speakers (or speaker system amplifier inputs) here. Volume is controlled with the Level knob (1) when MONITOR is selected (8) with the MONITOR button (12). The Monitor Outputs are DC coupled.

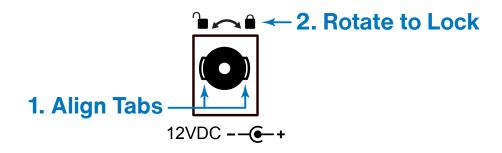
(17) Line Outputs 3 - 6

These ¼" phone outputs are accessed via software (UAD Console or DAW). Line outputs 3 – 6 are typically used to send audio to other equipment. The Line Outputs are DC coupled.

(18) Power Supply Input

The included power supply must be connected here (Apollo x4 cannot be bus powered). Rotate locking connector to prevent accidental disconnection.

Important: After ensuring the locking barrel tabs are aligned with the chassis slots and the barrel is fully inserted, rotate the barrel to secure the connector to the chassis.



(19) Power Switch

This rocker switch applies power to Apollo x4. Switch to OFF when not in use.

Caution: Before powering Apollo x4, lower the volume of the monitor speakers and remove headphones from your ears.

(21) Optical I/O Ports

The TOSLINK optical ports are for interconnecting other audio hardware in the digital domain. One input port and one output port are provided.

The optical ports can use the ADAT or S/PDIF digital signal protocols. The protocol used by each port (ADAT or S/PDIF) can be individually set in the Hardware panel within the UAD Console Settings window. By default, the ADAT protocol is active for both optical ports.

Note: The connection protocol for the optical ports (ADAT or S/PDIF) is specified in the Settings>Hardware panel within the companion UAD Console software.

ADAT Optical I/O

When set to ADAT, an optical port uses the ADAT Lightpipe Optical Interface protocol, which routes up to eight channels of digital audio.

The number of available ADAT channels depends on the current system sample rate. At higher sample rates, industry standard S/MUX is used to maintain high-resolution transfers, but fewer channels are routed.

- At sample rates of 44.1 kHz and 48 kHz, eight ADAT channels are available.
- At sample rates of 88.2 kHz and 96 kHz, four ADAT channels are available.
- At sample rates of 176.4 kHz and 192 kHz, two ADAT channels are available.

S/PDIF Optical I/O

When set to S/PDIF, an optical port routes two channels of digital I/O with resolutions up to 24-bit at 96 kHz.

Sample rate conversion can be performed on the S/PDIF input. This setting is enabled within the S/PDIF channel's input strip in the UAD Console application. When the sample rate of the incoming S/PDIF signal does not match the sample rate specified in the UAD Console application, the S/PDIF signal is converted to match Apollo x4's sample rate. If Apollo x4 is set to use external S/PDIF clock source, sample rate conversion is inactive.

Tip: The S/PDIF output can be configured to mirror the Monitor Outputs, for routing the stereo monitor signals to the stereo S/PDIF input of other devices. This feature is set with the DIGITAL MIRROR menu in the Hardware panel within the UAD Console Settings window.

(20) Thunderbolt 3 Port

Connect the Thunderbolt 3 cable (not included) from the host computer here. A Thunderbolt 3 connection to the computer is required to use all Apollo x4 features and UAD Powered Plug-Ins.

Note: With Mac computers only, Apollo x4 can be connected to Thunderbolt 1 and Thunderbolt 2 ports by using the Apple Thunderbolt 3 to Thunderbolt 2 Adapter in conjunction with a Thunderbolt 2 cable. With Windows PC computers, connections to Thunderbolt 1 or Thunderbolt 2 ports on are not supported.

Specifications

All specifications are typical performance unless otherwise noted. Tested with the Audio Precision APx555 Audio Analyzer under the following conditions: 48 kHz internal sample rate, 24-bit sample depth, 20 kHz measurement bandwidth, balanced input & output (except single-ended headphone outputs), and internal clock.

Specifications are subject to change without notice.

SYSTEM		
I/O Complement		
Simultaneous Channel I/O Count (analog + digital)	12 x 18 (ADAT mode)	
Microphone Inputs	Four	
High Impedance (Hi-Z) Instrument Inputs	Two	
Analog Line Inputs	Four	
Analog Line Outputs (DC coupled)	Four (six including Monitor outputs)	
Analog Monitor Outputs (DC coupled)	Two (one stereo pair)	
Headphone Outputs	Two stereo	
Digital Audio Ports (ADAT or S/PDIF, selectable)	One input, one output	
Thunderbolt 3 Port*	One	

^{*(}Mac only) Thunderbolt 1 and 2 connections supported via Apple Thunderbolt 3 to Thunderbolt 2 adapter

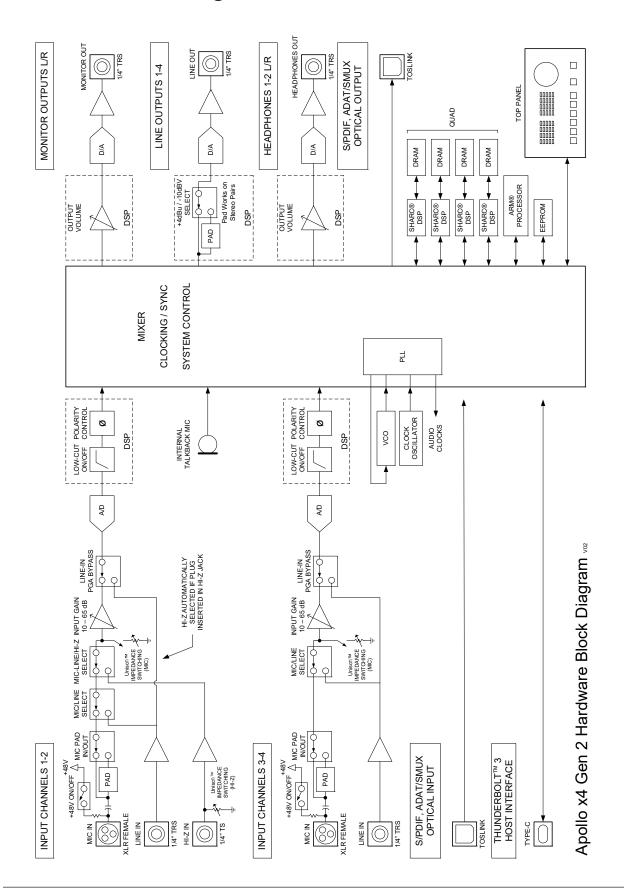
A/D – D/A Conversion	
Simultaneous A/D conversion	Four channels
Simultaneous D/A conversion	10 channels
Supported Sample Rates (kHz)	44.1, 48, 88.2, 96, 176.4, 192
Bit Depth Per Sample	24
Analog Round-Trip Latency	1.1 milliseconds @ 96 kHz sample rate
Analog Round-Trip Latency through four UAD legacy plug-ins (included) via UAD Console software	1.1 milliseconds @ 96 kHz sample rate (no additional latency via Realtime UAD Processing)

ANALOG I/O		
Microphone Inputs 1 – 4		
Frequency Response	20 Hz - 20 kHz, ±0.05 dB	
Dynamic Range	123 dB (A-weighted)	
THD + Noise (1 kHz @ 24 dBu, -1 dBFS)	-117 dB (0.00014%)	
Maximum Input Level (PAD on)	25 dBu	
Default Input Impedance (variable via Unison plug-ins)	5.4 Κ Ω	
Gain Range	+10 dB to +65 dB	
Pad Attenuation (switchable per mic input)	20 dB (variable via Unison plug-ins)	
Phantom Power (switchable per mic input)	+48V	
Connector Type	XLR female, pin 2 positive (combo XLR/TRS)	

	OG I/O	
Hi-Z Inputs 1 & 2 (600	$K\Omega$ input termination)	
Frequency Response	20 Hz - 20 kHz, ±0.05 dB	
Dynamic Range	122 dB (A-weighted)	
THD + Noise (1 kHz @ 11.4 dBu, -1 dBFS)	-111 dB (0.00028%)	
Maximum Input Level (at minimum gain)	12.4 dBu	
Default Input Impedance (variable via Unison plug-ins)	1ΜΩ	
Gain Range	+10 dB to +65 dB	
Connector Type	1/4" female TS unbalanced	
Line Inputs 1 – 4		
Frequency Response	20 Hz – 20 kHz, ±0.05 dB	
Dynamic Range	124 dB (A-weighted)	
THD + Noise (1 kHz @ 19.2 dBu, -1 dBFS)	-115 dB (0.00018%)	
Maximum Input Level (reference level @ +4 dBu)	20.2 dBu	
Input Impedance	10 Κ Ω	
Gain Range	+10 dB to +65 dB	
Connector Type	1/4" female TRS balanced	
	puts 1 – 4	
Frequency Response	20 Hz – 20 kHz, ±0.05 dB	
Dynamic Range	128 dB (A-weighted)	
THD + Noise (1 kHz @ 19.2 dBu, -1 dBFS)	-117 dB (0.00014%)	
Maximum Output Level	111 db (0.0001470)	
Reference level @ +4 dBu	20.2 dBu	
Reference level @ -10 dBV	14.5 dBu	
Output Impedance	100 Ω	
Connector Type	¼" female TRS balanced	
Monitor Ou	ıtputs L & R	
Frequency Response	20 Hz – 20 kHz, ±0.04 dB	
Dynamic Range	129 dB (A-weighted)	
THD + Noise (1 kHz @ 19.2 dBu, -1 dBFS)	-120 dB (0.0001%)	
Maximum Output Level	20.2 dBu	
Output Impedance	100 Ω	
Connector Type	¼" female TRS balanced	
·	one Outputs 1 & 2	
Frequency Response	20 Hz – 20 kHz, ±0.01 dB	
Dynamic Range	124 dB (A-weighted)	
THD + Noise	100 ID (0.000.100/.)	
300 Ω load (1kHz @ 14.4 dBu, -1 dBFS)	-108 dB (0.00040%)	
600 Ω load (1 kHz @ 14.8 dBu, -1 dBFS) Maximum Output Level	-112 dB (0.00025%)	
300 Ω load (1 kHz @ 14.4 dBu, -1 dBFS)	15.4 dBu	
600 Ω load (1kHz @ 14.8 dBu, -1 dBFS)	15.8 dBu	
Maximum Output Power		
300 Ω load	68 mW RMS	
600 Ω load	38 mW RMS	
Connector Type	1/4" female TRS stereo	

	TALL 1/O	
	TAL I/O	
Digital Audio Port (ADAT or S/PDIF, selectable)	One input, one output	
Connector Type	Optical TOSLINK JIS F05	
	PDIF	
S/PDIF Channels	One stereo input, one stereo output	
Format	IEC 958	
Supported Sample Rates (kHz)	44.1, 48, 88.2, 96	
ADAT		
ADAT Channels	Up to eight input & eight output channels	
Format	ADAT Lightpipe with S/MUX	
Supported Sample Rates (kHz)	44.1, 48, 88.2, 96, 176.4, 192	
Channel Assignments @ 44.1 kHz, 48 kHz	Channels 1 – 8	
Channel Assignments @ 88.2 kHz, 96 kHz	Channels 1 – 4	
Channel Assignments @ 176.4 kHz, 192 kHz	Channels 1 – 2	
	nization Sources	
Internal, ADAT, S/PDIF	Conditional per selected digital input type	
	TRICAL	
Power Supply	External AC-to-DC power supply, level VI compliant	
AC Input Connector Type	IEC C8, non-polarized	
AC Requirements	100V - 240V AC, ≈ 50 - 60 Hz, 1.2 A MAX	
DC Connector Type	Male barrel plug, 2.1 mm x 5.5 mm, center positive	
DC Requirements	12 VDC, ±5%	
Maximum Power Consumption	19 Watts (when portable host computer not charging)	
ENVIRO	NMENTAL	
Ambient Temperature Range	32° to 104° F (0° to 40° C)	
MECH	IANICAL	
Dime	ensions	
Width	9.17" (232.98 mm)	
Height	2.51" (65.81 mm)	
Depth, Chassis Only	5.87" (149.13 mm)	
Depth, Including Knob & Jack Protrusions	6.12" (155.60 mm)	
Shipping Box (Length x Width x Height)	11" x 8" x 5"	
	(279 mm x 203 mm x 127 mm)	
Weight		
Shipping Weight (with box & accessories)	5.86 lbs (2.66 kg)	
Weight (bare unit)	3.2 lbs (1.47 kg)	
Package Contents		
Apollo x4 Gen 2 Audio Interface		
External Power Supply		
AC Power Cable (IEC C7, non-polarized)	Region specific (USA, EU, UK, ANZ, or Japan)	
Getting Started URL Card		

Hardware Block Diagram



Troubleshooting

If Apollo x4 isn't behaving as expected, some common troubleshooting items to confirm are below. If you are still experiencing issues after performing these checks, contact Technical Support.

SYMPTOM	ITEMS TO CHECK
Unit won't power on	 Confirm power supply connector is fully inserted, then twist barrel to lock Confirm Power switch is in "ON" position Confirm AC power is available at wall socket by plugging in a different device
Unit is not recognized by computer	 Confirm Thunderbolt 3 cable is fully inserted at both ends Confirm the newest Apollo x4 software is installed (reinstall if necessary) Power off system, power on Apollo x4, then start computer Try a different Thunderbolt 3 cable
No monitor output	 Confirm connections, power, and volume of monitoring system Confirm Apollo x4 monitor level is turned up Confirm monitor outputs are not muted (push MUTE button when in Monitor mode) Confirm monitor output LEDs are active (check signal flows)
Can't hear mic or line input(s)	 Confirm mic/line select switch setting is correct for the channel (CH1/CH2/CH3/CH4) Confirm mic/line setting matches the input plug for the channel (XLR or 1/4") Confirm preamp gain is turned up for the channel(s) For channels 1 and 2, confirm nothing is plugged into its Hi-Z input
Can't hear mic input(s)	Confirm +48V phantom power is enabled if required by microphone
Can't hear Hi-Z input	 Confirm volume on connected device is turned up Confirm Hi-Z input plug is 1/4" mono TS (TRS cables cannot be used with Hi-Z input)
Preamp controls have no effect on channel	Confirm desired channel is selected for control (push PREAMP button repeatedly to select CH1/CH2/CH3/CH4)
Can't adjust digital input levels	 Signal levels for digital inputs are adjusted at the device connected to those inputs UAD plug-ins can be used to add signal gain if desired
Audio glitches and/or dropouts during DAW playback	 Increase I/O Hardware Buffer (Mac: in DAW settings; Windows: in UAD Console settings) If syncing to external digital clock via optical input, confirm clocking setups (confirm optical cable connections, matching sample rates, and that all devices are synchronized to one master clock device)
Undesirable echo/phasing	 Confirm input monitoring is not enabled in both UAD Console and DAW Disable software input monitoring if monitoring via UAD Console (recommended) Mute all UAD Console inputs if software input monitoring via DAW
Static and/or white noise is heard when nothing is plugged in	 Mute or lower preamp gain to minimum on unused preamp channels (mic preamps can emit noise even when nothing is plugged in) Some UAD plug-ins model the noise characteristics of the original equipment (defeat the noise model in the UAD plug-in interface, or mute the channel containing the plug-in to temporarily mute the noise)
Various LEDs inside the unit are blinking	This is normal operational behavior and can be safely ignored
Apollo x4 is behaving unexpectedly	 As a last resort, perform a hardware reset on the unit by following these steps: 1. Power off Apollo x4 2. Press and hold the PREAMP, FILTER, and POLARITY buttons 3. Power on Apollo x4 while continuing to hold all three controls 4. After all front panel LEDs flash rapidly for several seconds, release the controls

Notices



//\rmportant Safety Information

- 1. Read these safety instructions and the instruction manual of the product.
- 2. Keep these safety instructions and the instruction manual of the product. Always include all instructions when providing the product to other parties.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Only clean the product when it is not connected to the power supply system. Clean only with a 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. Only operate the product from the type of power source indicated on the power supply unit.
- 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it enters into and/or exits from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled into or objects have fallen into the apparatus, or when the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14. Warning: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Objects filled with liquids, such as vases, should not be placed on this apparatus.
- 15. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
- 16. The mains plug of the power supply cord shall remain readily accessible.
- 17. Do not attempt to open the product housing. The warranty is voided for products opened by the customer.
- 18. Let the product reach ambient temperature before switching it on.
- 19. Caution: High signal levels can damage your hearing and your loudspeakers. Reduce the volume on the connected audio devices before switching on the product; this will also help prevent acoustic feedback.
- 20. Intended use. The product is designed for indoor use. The product can be used for commercial purposes. It is considered improper use when the product is used for any application not named in the corresponding instruction manual. Universal Audio does not accept liability for damage arising from improper use or misuse of this product and its attachments/ accessories. Before putting the product into operation, please observe the respective country-specific regulations.

Manufacturer's Declarations

Warranty

The product is covered by a limited warranty. For the current terms of such warranty, please visit uaudio.com/eula.

Maintenance



CAUTION: To reduce the risk of electric shock, do not open the unit.

This product does not contain a fuse or any other user-replaceable parts. The unit is internally calibrated at the factory. No internal user adjustments are available.

Repair Service

If you are having trouble with your hardware, first check all system setups, connections, and operating instructions. If that doesn't help, contact our Customer Care team.

To learn about repair service, or for Customer Care, visit help.uaudio.com.

Notes on Disposal

In compliance with the following requirements:

WEE-DIRECTIVE (2012/19/EU)



The symbol of the crossed-out wheeled bin on the product, the battery/ rechargeable battery (if applicable), and/or the packaging indicates that these products must not be disposed of with normal household waste, but must be disposed of separately at the end of their operational lifetime. For packaging disposal, please observe the legal regulations on waste segregation applicable in your country.

Further information on the recycling of these products can be obtained from your municipal administration or from the municipal collection points. The separate collection of waste electrical and electronic equipment, batteries/rechargeable batteries (if applicable) and packaging, is used to promote the reuse and recycling and to prevent negative effects caused by e.g., potentially hazardous substances contained in these products. Herewith, you can make an important contribution to the protection of the environment and public health.

EU Declaration of Conformity



- RoHS-Directive (2015/863/EU)
- Low Voltage Directive (2014/35/EU)
- EMC Directive (2014/30/EU)
- REACH Directive (EC1907/2006)

Class B Device Statements

United States

NOTE: 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 and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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.

Any modifications to the unit, unless expressly approved by Universal Audio, could void the User's authority to operate the equipment.

Compliance

This product complied with the following requirements:

- Subpart B of Part 15 of FCC Rules for Class B digital devices (ANSI C63.4 methods)
- Innovation, Science and Economic Development Canada Interference Causing Equipment Standard ICES-003, "Information Technology Equipment (ITE) – Limits and methods of measurement", Issue 7, dated October 2020 (Class B) (ANSI C63.4 methods)
- VCCI-CISPR 32:2016 "Technical Requirements" for multimedia equipment (Class B)
- AS/NZS CISPR 32:2015 +A1 +A11 2020 "Electromagnetic compatibility of multimedia equipment – Emission requirements" (Class B)
- CISPR 32:2015 +A1:2019, "Electromagnetic compatibility of multimedia equipment Emissions requirements" (Class B)
- EN 55032:2015 +A11 +A1:2020, "Electromagnetic compatibility of multimedia equipment Emissions requirements" (Class B)
- BS EN 55032:2015 +A11 +A1:2020, "Electromagnetic compatibility of multimedia equipment – Emissions requirements" (Class B)
- CISPR 35:2016 "Electromagnetic compatibility of multimedia equipment Immunity requirements.
- EN 55035:2017 + A11:2020 "Electromagnetic compatibility of multimedia equipment Immunity requirements.
- BS EN 55035:2017 + A11:2020 "Electromagnetic compatibility of multimedia equipment
 Immunity requirements.
- QCVN 118:2018/BTTTT "National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements" (Class B)
- KS C 9832, KS C 9835 (Class B)

South Korea Compliance Certification

- Applicant Name: Universal Audio, Inc.
- Equipment Name: Apollo x4 Gen 2
- Model Name: Apollo x4 Gen 2
- Registration Number: R-R-UAO-APOLLOX4G2
- Manufacturer/Country of Origin: Universal Audio, Inc. / Malaysia, China, Vietnam
- Date of Registration: 2024-08-20

Product Label



End User License Agreement

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