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Apollo 16



Apollo Twin

Universal Audio History



Often regarded as the father of modern recording, M.T. "Bill" Putnam Sr. founded Universal Audio in 1958. The inventor of the modern recording console, the multi-band audio equalizer and the vocal booth, the late Bill Putnam Sr. was the first engineer to use artificial reverberation in commercial recording and was also involved in the early development of stereophonic recording. Many of his innovative studio and equipment designs are still in use today.

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Apollo Series

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Apollo Comparison Table

	Balanced Line Output	Mic Preamps	Analog I/O*	Hi-Z Instrument Inputs	Stereo Cue Mix Sends	Headphone Amps	Digital I/O	Other I/O	Built-in Processor	Analog Classics Plug-in Bundle	Price
Apollo 16	16	None	16x16	None	4	None	2 channels AES/EBU	MADI I/O**	UAD-2 QUAD	Included	\$2999
Apollo QUAD	8	4 digitally-controlled	8x8	2 front-panel	2	2	2 channels S/PDIF	8 channels ADAT I/O	UAD-2 QUAD	Included	\$2499
Apollo DUO	8	4 digitally-controlled	8x8	2 front-panel	2	2	2 channels S/PDIF	8 channels ADAT I/O	UAD-2 DUO	Included	\$1999
Apollo Twin	2	2 digitally-controlled	2x4	1	1	1	2 channels S/PDIF in	8 channels ADAT in	UAD-2 SOLO or DUO	Included	\$899 DUO \$699 SOLO

*Two of the same model can be combined to double the I/O, but Apollo and Apollo 16 models cannot be combined on the same computer to increase I/O.

**MADI I/O used for multi-unit cascading; cannot be used to connect to other MADI gear.

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Ten years after its founder's death, Universal Audio, Inc. was re-founded in 1999 by Bill's sons, James Putnam and Bill Putnam Jr. They wanted to carry on their father's legacy not only by reproducing his classic analog recording equipment, but also by introducing new digital recording tools capable of recreating the sound and spirit of vintage analog technology.

Today, Universal Audio still hand-builds its classic analog gear, and goes to great lengths to deliver the identical sound and performance of units built decades ago. On the digital front, Universal Audio's award-winning UAD Powered Plug-Ins platform features authentic analog emulation with all the warmth and harmonics of true analog sound. Whether analog or digital, software or hardware, Universal Audio delivers innovative, superior quality products to its customers worldwide.

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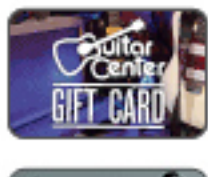
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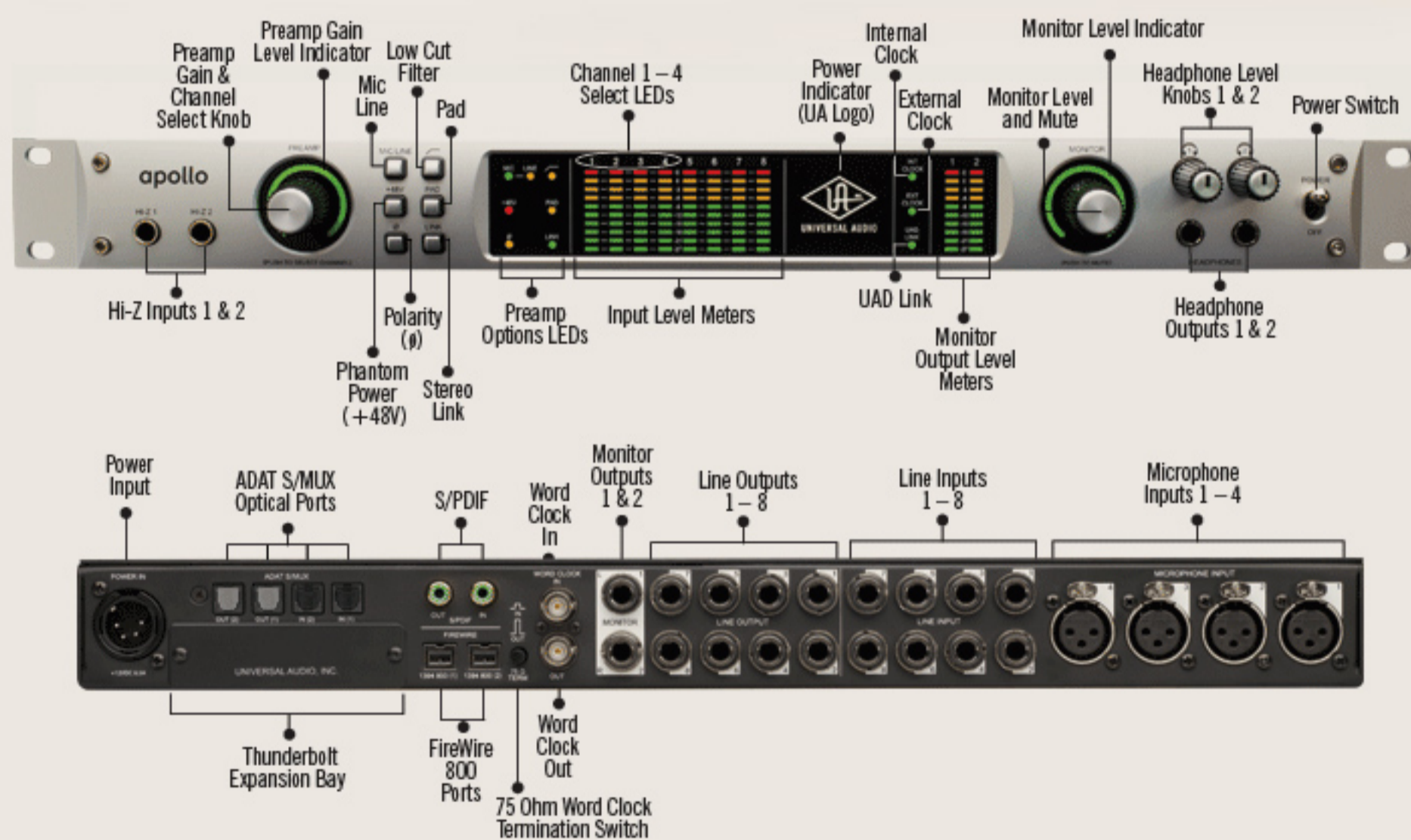


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+ Basic Setup

+ Typical Setup

+ Advanced Setup with Additional UAD-2 Satellite Processing

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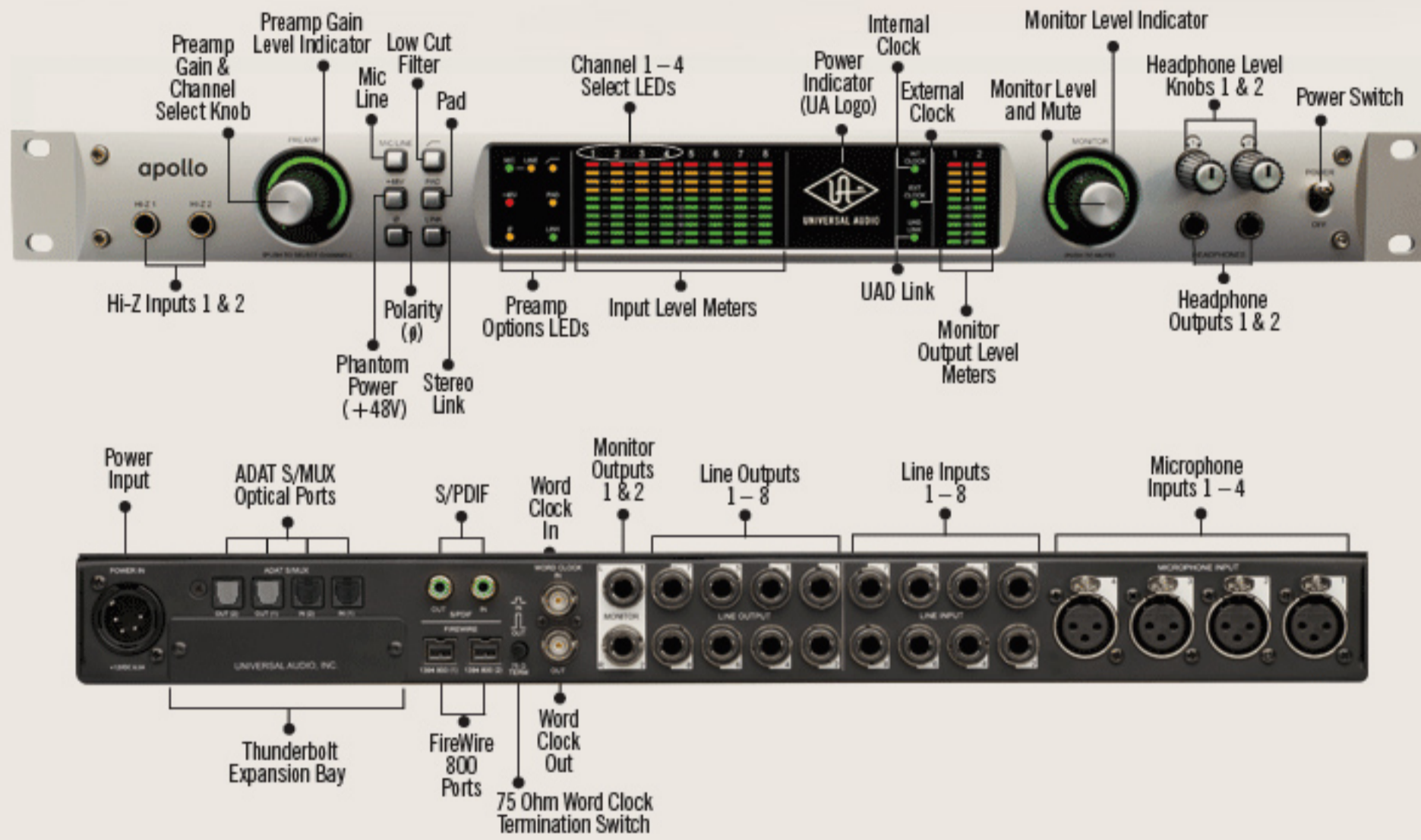


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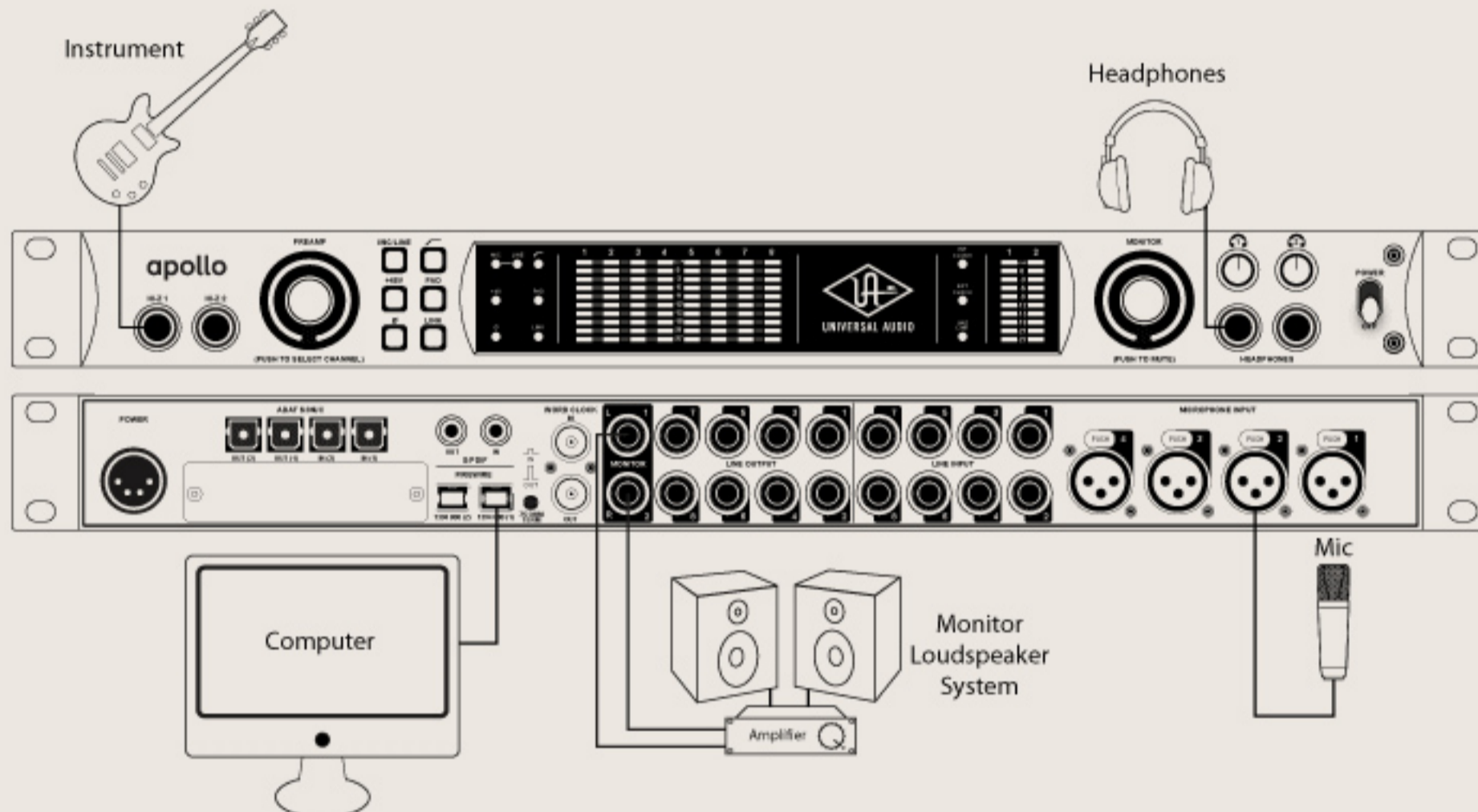
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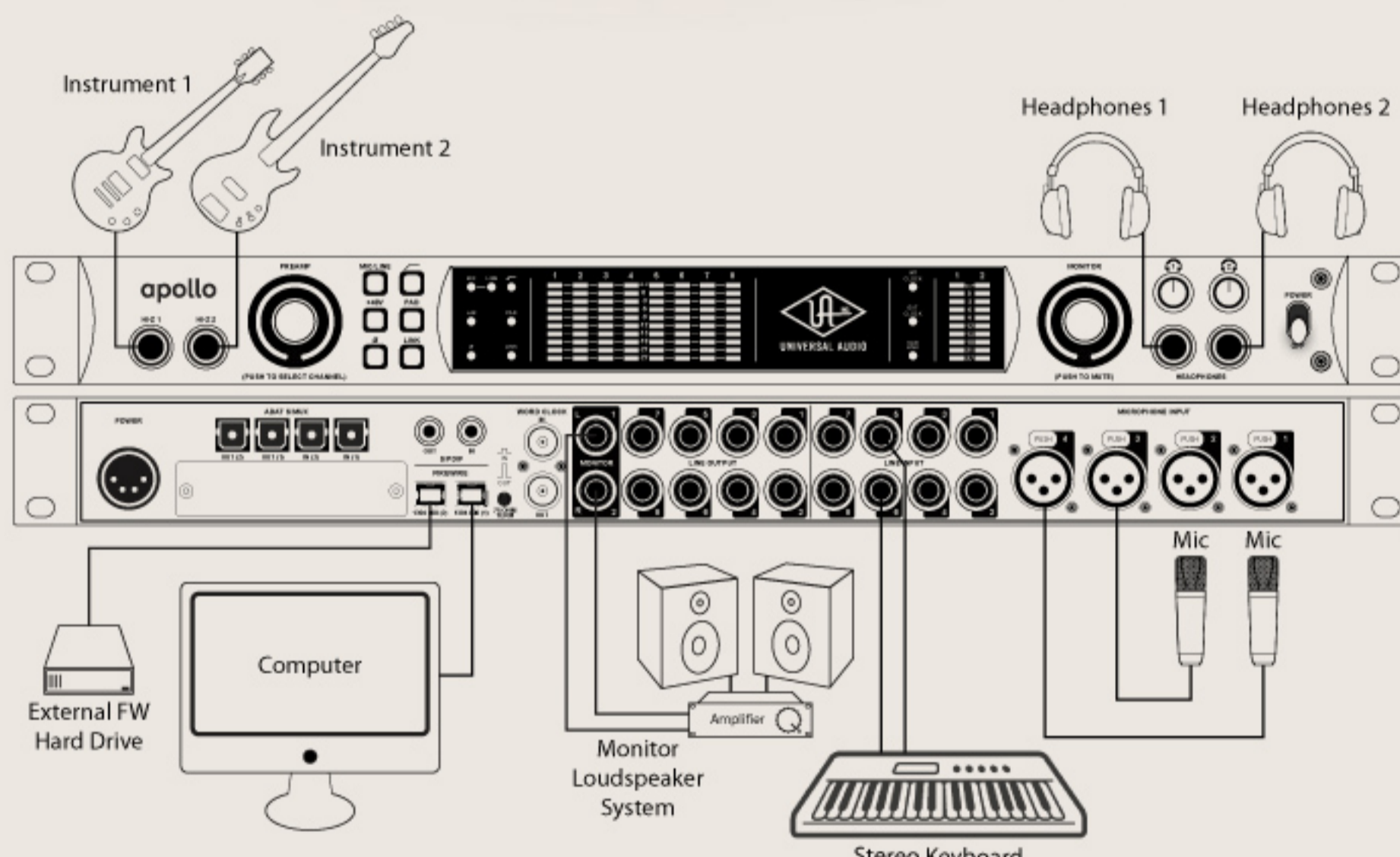
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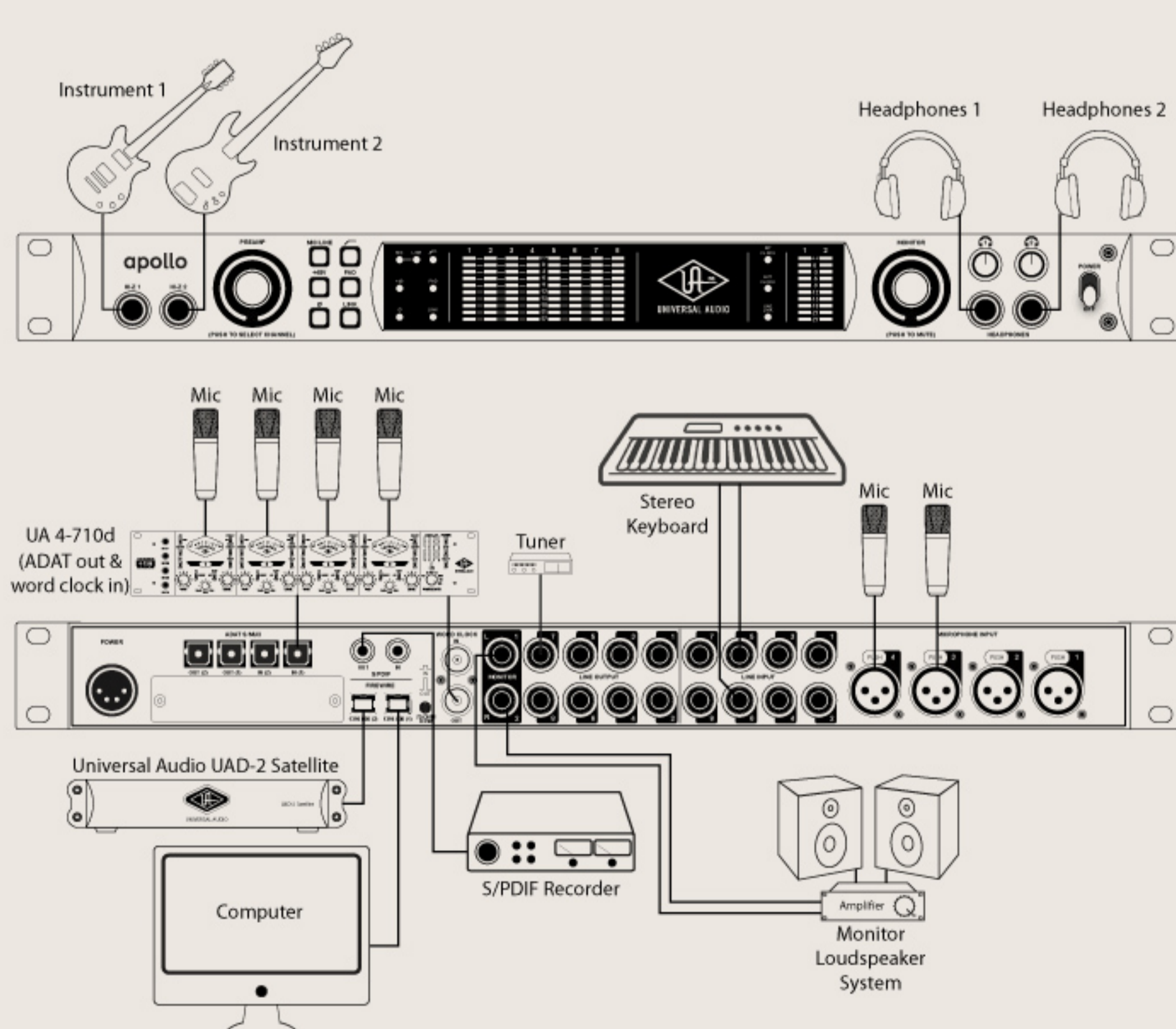
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Advanced Setup with Additional UAD-2 Satellite Processing

A more complex Apollo setup for recording and mixing an entire ensemble, utilizing both analog and digital I/O:

- Mic/Line switch for channels 3 and 4 are set to "Mic"
- Four additional mic preamps from UA's 4-710d are routed into Apollo via ADAT Lightpipe
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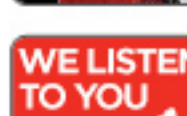
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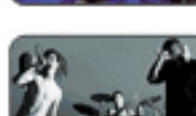
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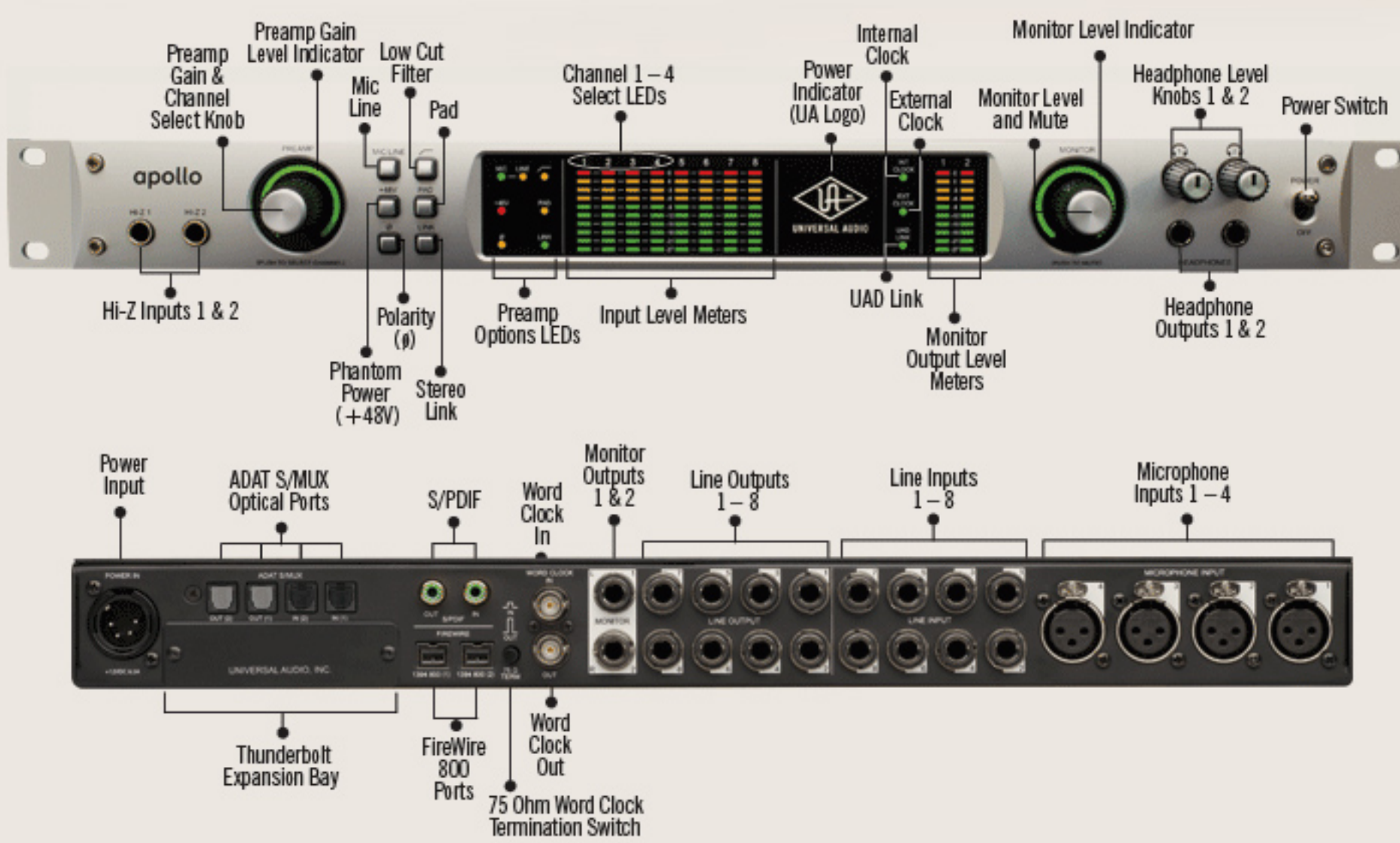


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Apollo 16 is Universal Audio's flagship 24-bit/192 kHz audio interface, with 16 x 16 analog I/O—twice the analog connectivity of the original Apollo model. Combining superior sound with powerful onboard Realtime UAD processing, the Apollo 16 allows you to track audio in real time through classic UAD analog emulation plug-ins. The Apollo 16 easily connects to Intel-based Macs and Windows 7 PCs via FireWire 800, or to Thunderbolt-equipped Macs.

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Apollo 16 Features



CLASS-LEADING SOUND QUALITY

Apollo 16 offers extraordinary 24-bit/192 kHz sound quality, with the lowest THD and highest dynamic range in its class.



BUILT-IN UAD-2 QUAD DSP

Using onboard UAD-2 plug-in processing, Apollo 16 delivers a range of authentic analog tones from Ampex, Lexicon, Neve and more, with as low as sub-2ms latency.*

*Some UAD Powered Plus-Ins sold separately.



THUNDERBOLT CONNECTIVITY FOR MAC

The Apollo 16 is compatible with Intel's high-bandwidth Thunderbolt technology.* Using Thunderbolt connectivity provides more UAD plug-in instances, increases performance at high sample rates and reduces UAD plug-in latency in the DAW.

*Thunderbolt connectivity is Mac-only.

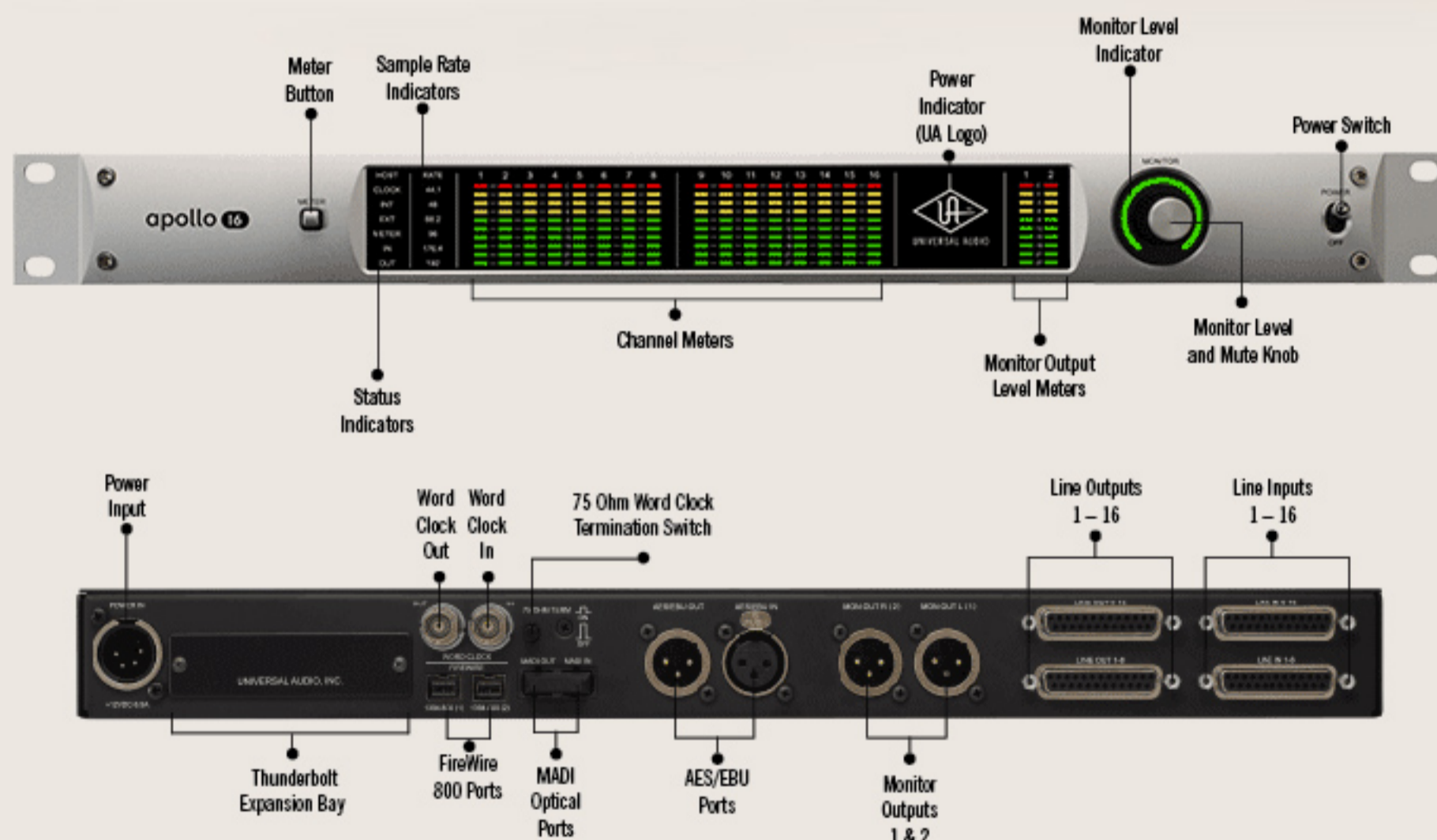


HARDWARE DESIGN AND WORKFLOW

Numerous design details like digitally controlled analog monitor outputs, high-visibility LEDs for full input and output metering, professional-grade connections and standalone operation give you a fast, natural workflow and better results.

Hardware: Front & Rear Panels

The most commonly used recording and monitoring features appear on the Apollo interface's front panel for fast, direct access. The rear panel provides the dedicated, high-quality I/O.



+ Basic Setup

+ Thunderbolt Setup

+ Multi-Unit Setup – FireWire Host Connection

+ Multi-Unit Setup – Thunderbolt Host Connection

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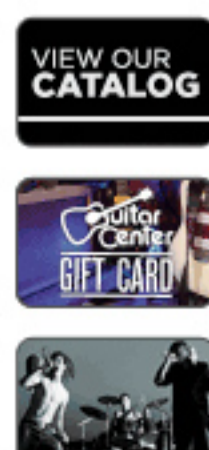
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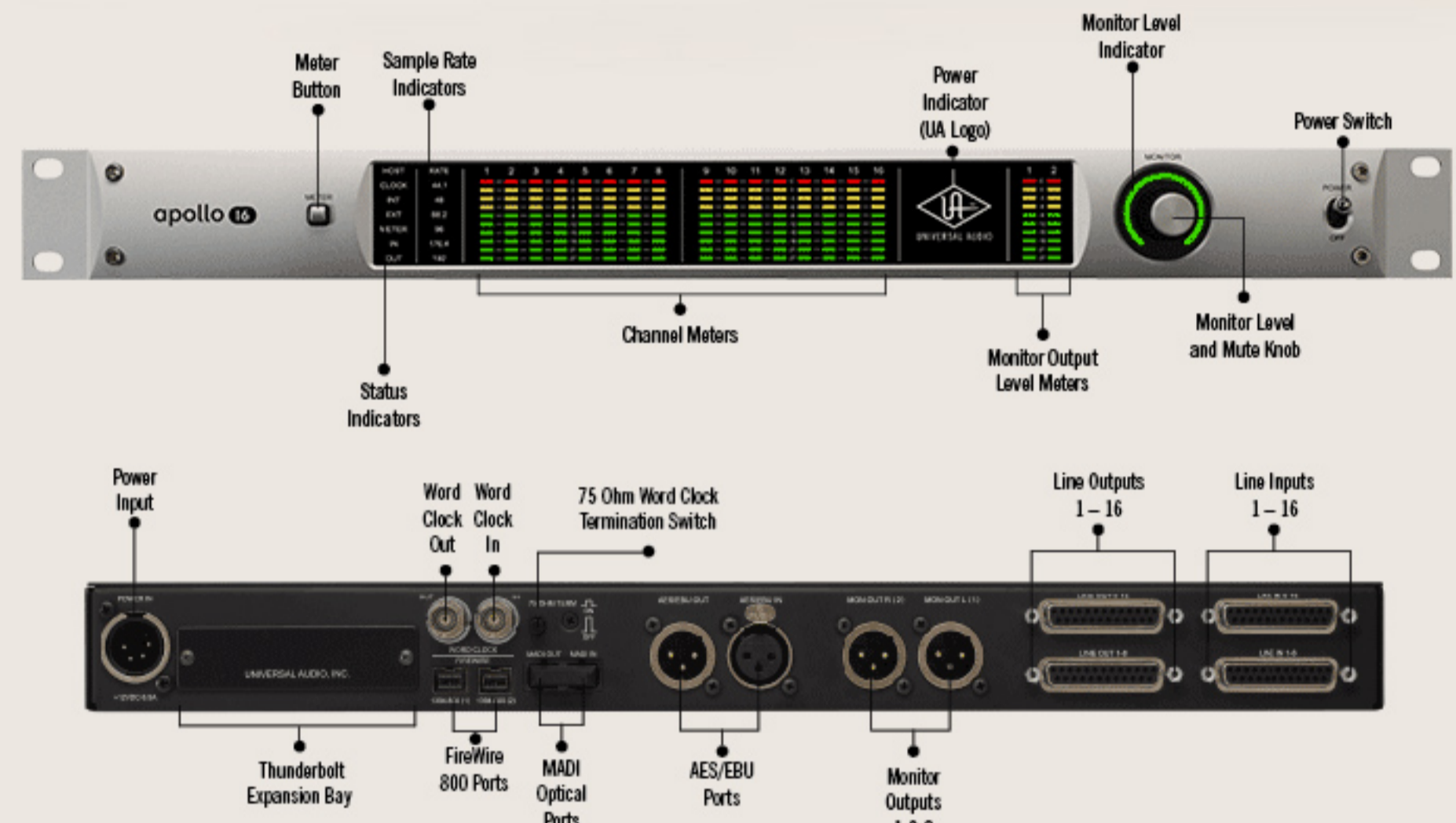


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Hardware: Front & Rear Panels

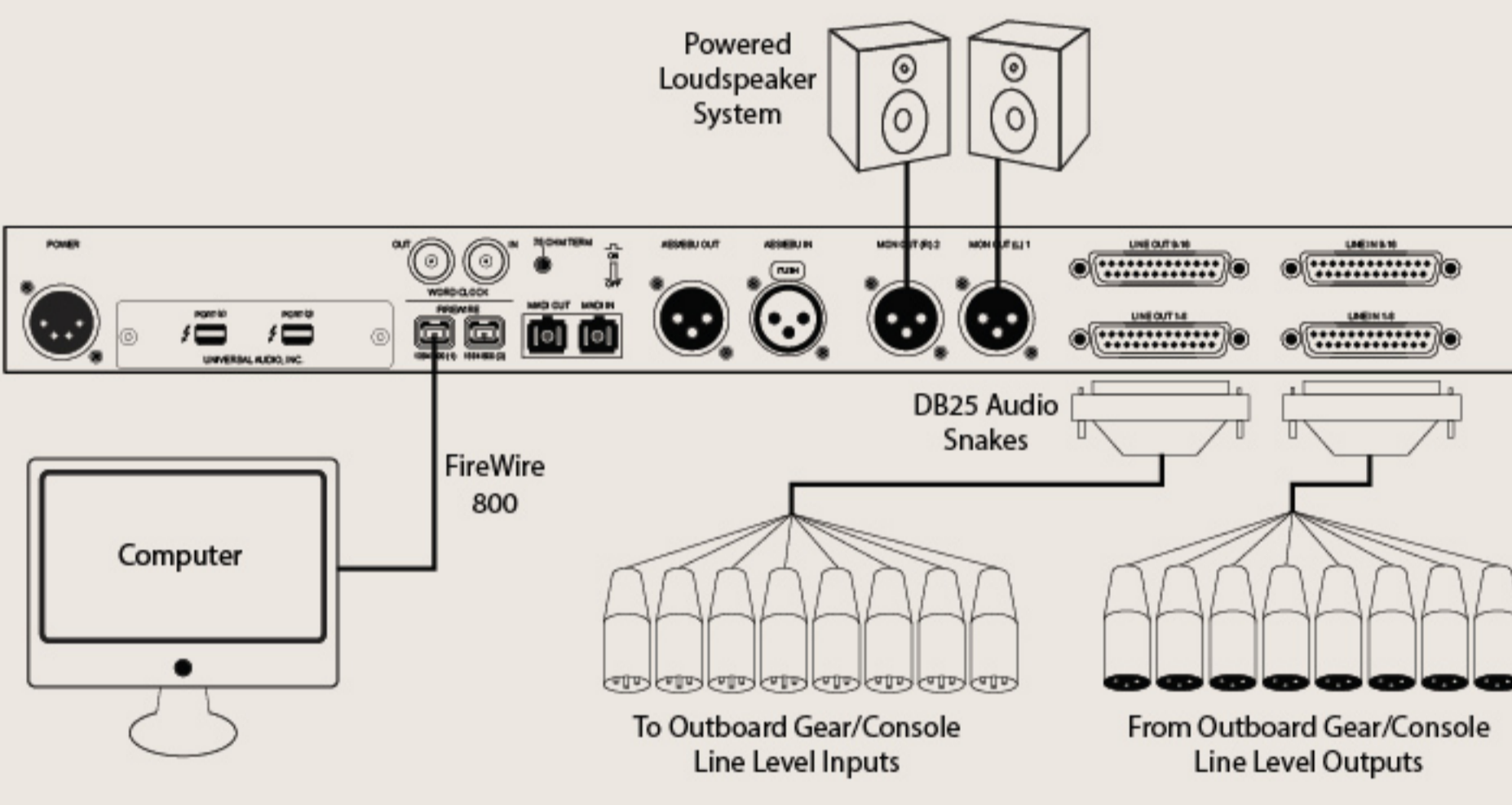
The most commonly used recording and monitoring features appear on the Apollo interface's front panel for fast, direct access. The rear panel provides the dedicated, high-quality I/O.



Basic Setup

A basic Apollo 16 system with only analog devices connected; digital I/O is not used:

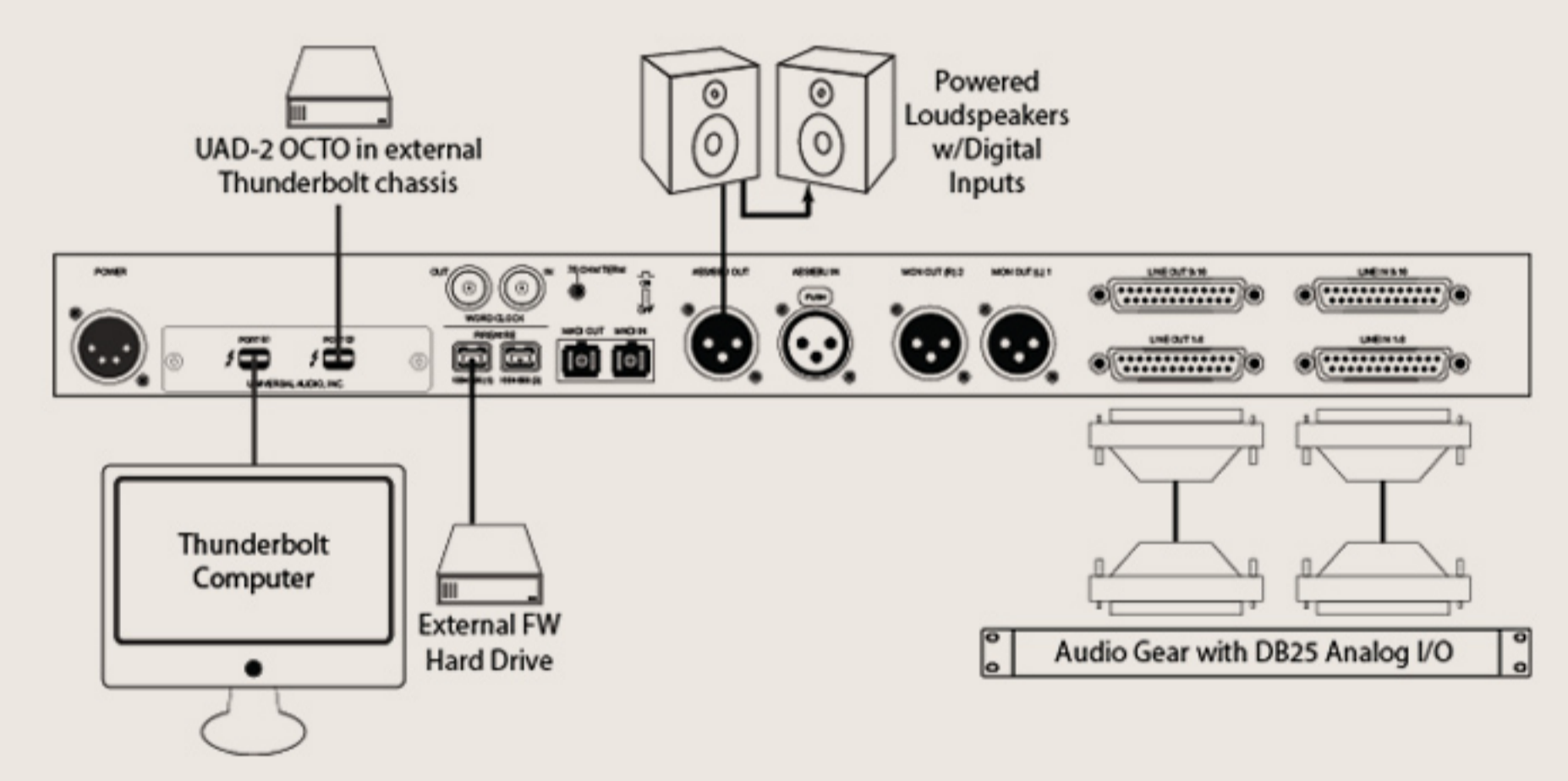
- Either FireWire port can be used for the host computer connection
- The Monitor outputs are connected to powered monitors (or an amp+speaker system)
- DB25 audio snakes are used for connections to line-level audio gear
- Although this example uses XLR connectors, DB25 snakes that terminate to XLR, TRS, or other DB25 connectors can be used



Thunderbolt Setup

Apollo 16 can be connected to a host computer with the Thunderbolt Option Card.

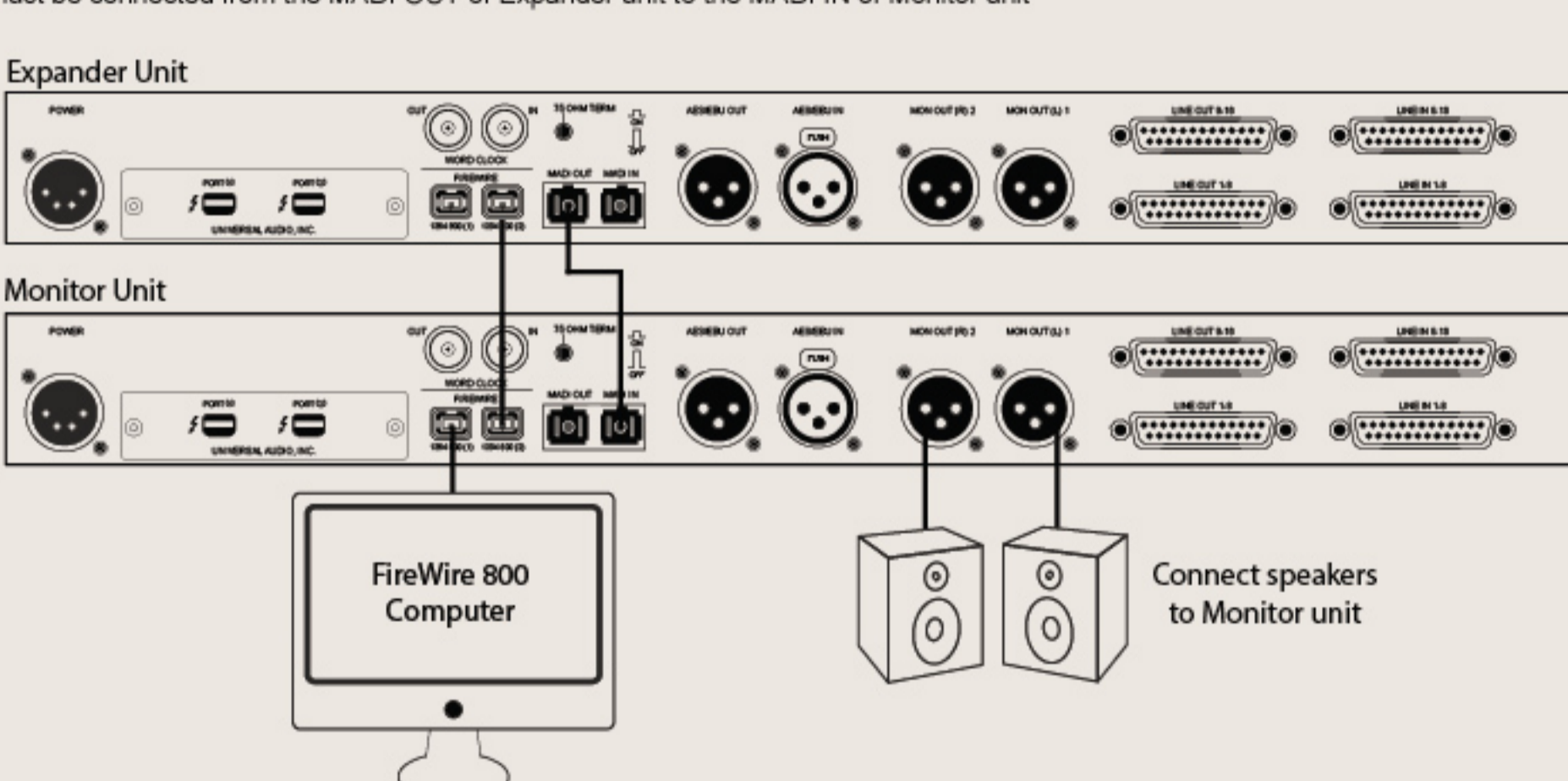
- The Thunderbolt Option Card must be installed in Apollo 16 to connect via Thunderbolt
- Either Thunderbolt port can be used for the host computer connection
- A UAD-2 PCIe card in an external Thunderbolt expansion chassis is daisy-chained to second port in Thunderbolt Option Card for additional power during mixing and mastering
- Monitors with AES/EBU input are connected to AES/EBU output
- The "AES/EBU Mirrors Monitor 1-2" option is enabled in Console Settings so Apollo 16's front panel MONITOR knob can control the volume level of the speakers with AES/EBU input
- Either FireWire port can be used for the external FireWire hard drive connection



Multi-Unit Setup – FireWire Host Connection

Two Apollo 16 units can be connected together into an aggregated interface for 32 simultaneous analog inputs and 32 simultaneous analog outputs using FireWire to connect to the host computer.

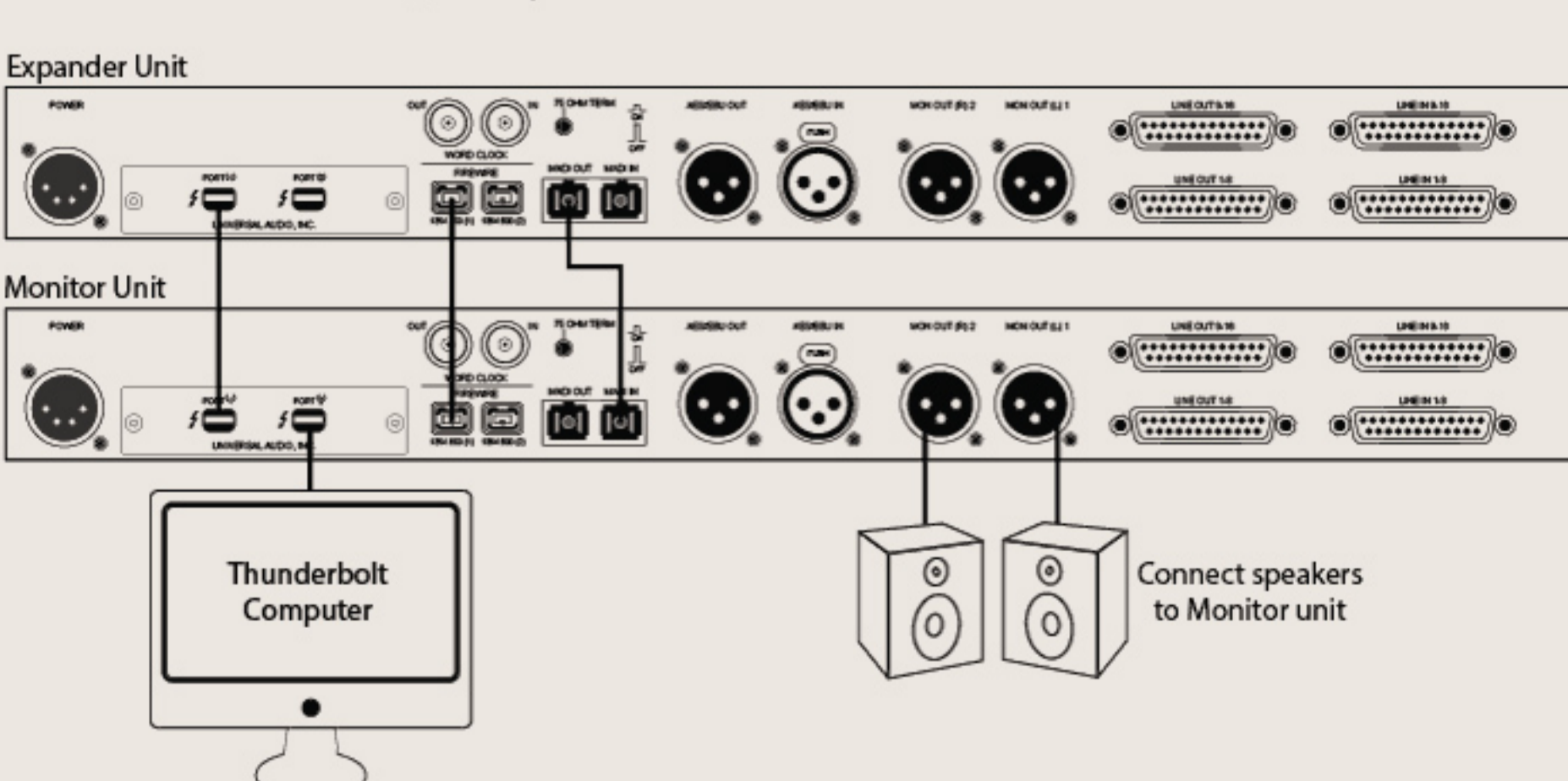
- One unit is designated as the "Monitor" (the master unit – where monitor connections are made)
- One unit is the "Expander" (the slave unit – with higher numbered I/O)
- The Monitor unit is connected to the host computer via FireWire 800 (either FireWire port can be used for this connection)
- One FireWire 800 cable must be connected between the Expander and Monitor units (either FireWire port can be used for this connection)
- One MADI cable must be connected from the MADI OUT of Expander unit to the MADI IN of Monitor unit



Multi-Unit Setup – Thunderbolt Host Connection

Two Apollo 16 units can be connected together into an aggregated interface for 32 simultaneous analog inputs and 32 simultaneous analog outputs.

- Both units require the Thunderbolt Option Card to be installed
- One unit is designated as the "Monitor" (the master unit – where monitor connections are made)
- One unit is the "Expander" (the slave unit – with higher numbered I/O)
- The Monitor unit is connected to the host computer via the Thunderbolt Option Card (either Thunderbolt port can be used)
- One Thunderbolt cable must be connected between the Expander and Monitor units (either Thunderbolt port can be used)
- One MADI cable must be connected from the MADI OUT of Expander unit to the MADI IN of Monitor unit



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Apollo QUAD **Apollo DUO** **Apollo 16** **Apollo Twin**

Apollo Twin

Apollo Twin reinvents desktop recording by delivering the class-leading 24/192 kHz audio conversion of Universal Audio's acclaimed Apollo series along with on-board realtime UAD SOLO or DUO processing. With uncompromising analog design, superior components, and premium build quality, this 2x6 desktop Thunderbolt audio interface gives music creators legendary analog studio sound, feel, and flow, while enabling recording through UAD Powered Plug-Ins at near-zero latency. A full range of UAD plug-ins from Neve, Studer, Manley, Lexicon, API and more puts racks of vintage EQs, compressors, tape machines, reverbs and guitar amps at your fingertips*. The Apollo Twin easily connects to Macs via Thunderbolt.

*Some UAD Powered Plug-Ins sold separately.

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*Thunderbolt connectivity is Mac-only.

GROUNDBREAKING UNISON TECHNOLOGY

Apollo Twin's Unison technology gives you the tone of the world's most sought-after tube and solid state mic preamps, including their all-important impedance, gain stage "sweet spots" and component-level circuit behaviors. Based on unprecedented hardware-software integration between Apollo's mic preamps and its onboard UAD plug-in processing, Unison lets you record through stunning emulations, like the bundled UA 610-B Tube Preamp plug-in.

Apollo Twin Full Features

- 2 premium mic/line preamps; 2 line outputs; front-panel Hi-Z instrument input and headphone output
- 2 digitally controlled analog monitor outputs for full resolution at all listening levels
- Up to 8 channels of additional digital input via optical connection
- Includes "Realtime Analog Classics" UAD plug-in bundle, featuring Legacy editions of the LA-2A Classic Audio Leveler, 1176LN Limiting Amplifier, and Pultec EQP-1A Program Equalizer, Softube Amp Room Essentials, 610-B Tube Preamp Plug-in and more
- Runs UAD Powered Plug-Ins via Audio Units, VST, RTAS & AAX 64 in all major DAWs

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