



Aurender 2023

The Digital Source Component of choice in the world's finest HiFi systems.

The Collector's Approach
to a modern audio system.

There is an Aurender for every music lover.

 **MQA**  **TIDAL**  **qobuz**  **Spotify**

 **aurender**



The Aurender Way

The Digital Source Component of choice in the world's finest audio systems

Welcome to The Aurender Way – the most luxurious, elegant, and high-performance approach to streaming and file-based playback available. Since 2010, Aurender has been an industry leader in digital source components – taking the computer out of "computer audio." By continually pushing the boundaries of technology in terms of a streamlined user experience and no-compromise audio performance, Aurender's core goal is simple: to combine exceptional hardware engineering with a software suite that is specifically optimized to take maximum advantage of the hardware at hand. By applying a traditional audiophile component-based design concept to a modern digital solution, Aurender delivers an utterly transparent audio presentation unlike any other.

The Collector's Approach

The rise of lossless and high-resolution streaming services has given music lovers nearly unlimited access to the entire world of recorded music. It is a truly exciting time to be a music lover! However, the instant availability and ephemeral nature of streaming content can dilute the experience of intentionally exploring, curating, and collecting a music library that becomes an essential part of our lives. Aurender's approach to building a personal music library preserves the experience of actively collecting by aggregating streaming music services with locally stored files on a platform that is not only searchable, but browseable as well. With Conductor, your music library is your own.



Your Digital Concierge – Support That Cares

Many Aurender owners might not flinch at setting up a complicated turntable, but the idea of tackling an IT challenge, or learning to use an App interface, is the stuff of nightmares. Aurender's support team takes the guesswork out of dipping your toes into streaming waters. With white-glove service and a unique Remote Support portal that can help with any aspect of system setup and maintenance, Aurender's technical support team is ready, willing, and able to help. This is The Aurender Way.

An Aurender for Every Music Lover

With a wide variety of models available across the spectrum of price, design, and features, there is an Aurender for every music lover. Contact Aurender or your local retailer/distributor to learn about which model is right for you and your system.



ESSENTIAL AURENDER AUDIO TECHNOLOGY

– Innovations In Music Making

Caching System

Every Aurender music server employs file caching via an internal SSD caching drive from which all playback occurs (internet radio and AirPlay excluded). When content is selected from the Conductor app for playback, whether it is stored locally or is from a streaming service, that content downloads almost instantaneously to the caching SSD from which all playback emanates. This minimizes system resources required to play music, and guarantees consistency of sound quality. This is a unique hallmark of the Aurender audio playback engine, and a big reason why Aurender's platform sounds as good as it does.

Dedicated USB Audio Output

Ever since the advent of file-based audio playback from a computer, USB became the de facto standard interconnect protocol for digital audio. While asynchronous USB audio technology does represent some major advantages such as support for super high sample rate transmission, and the potential for virtually no jitter, it has historically been very prone to noise and compatibility issues. Aurender's solution to USB audio involves a dedicated USB Audio Class 2 port that is mechanically filtered and isolated from the noise-generating components of the computer.

OCXO Controlled SPDIF and AES/EBU Audio Outputs

As good as USB can be with the right DAC, SPDIF and AES/EBU protocols still present the opportunity for lower noise AND lower jitter in many scenarios. Aurender models N20 and N30SA feature a suite of SPDIF and AES/EBU audio outputs controlled by an ultra-precise Oven Controlled Crystal Oscillator for the ultimate marriage of low noise and low jitter which these output technologies afford. Legacy DACs and even many of today's latest and greatest DACs will offer truer, more musical audio presentations when used with Aurender's distinctive OCXO-controlled SPDIF or AES/EBU outputs compared with USB.

MQA Core & Full Decode

Analog output Aurender models are built around MQA Full-Decoder DACs, meaning they are capable of realizing the highest performance that MQA file content can provide. Digital output models can be upgraded with MQA Core-Decoder software via an optional one-time in-app purchase. MQA Core Decoding offers the main benefit of MQA technology by unfolding the MQA content to a sampling rate of up to 96kHz. However, in order to experience the full potential of MQA, an MQA Full-Decoder DAC (such as the ones built in to Aurender's Analog Output series), or an MQA Renderer DAC is required.

Streaming Service Integration

Tidal and Qobuz streaming services are an embedded part of the Aurender Conductor App (subscription required). Access to streaming content and local content is combined for a seamless user experience from streaming services as well as locally stored files to form one all-inclusive music library.

Adaptive Storage System

Aurender developed adaptive storage because everyone wants something different. All models with adaptive storage (N150, N200, N20, N30SA, A200, A15, A20) allow for the installation of one or two 2.5" HDD or SSD up to 8TB. 100% streaming? No drives are required. Have a small library? Fit an economical 1TB HDD or SSD. Massive file storage requirements? Go for dual 8TB SSDs for 16TB total storage (N150 excluded).

Linear Power Supplies with Super Capacitor-Based UPS

Each Aurender model (ACS100 excluded) uses a linear power supply for superior low-noise power generation. Moving up the Aurender range, the sophistication and capacity of PSUs increases to conform with the performance criteria and expectation of lower noise, greater dynamic range, slam and low-frequency extension. Also included on each model is a super capacitor-based uninterruptible power supply (UPS). The UPS will protect the unit's operating system and storage disk from corruption in the event of an abrupt power outage by safely shutting the unit down.

Low Power/High Efficiency Intel CPU

If the power supplies are the heart of an Aurender system, the CPU is the brain. The CPU is the most power-hungry and noise-generating component of any computer. Aurender's 10+ years of computer hardware engineering have led us to this moment where every Aurender model (W20SE excluded) is based around ultra-low-power, high-efficiency Intel CPUs that provide enough processing power to run smoothly now and in the future, while minimizing the amount of current and noise generated by the computer.

Double-Isolated Gigabit LAN Port

Ethernet connections are well-known to pick up and transmit RF noise from the surrounding environment and other components upstream. Aurender employs 2 layers of transformer-based filtration and isolation to mitigate noise introduced by the LAN cable connection to negligible levels.

Full-Color Display, with Critical Listening Mode Option

For most of us, the way a system looks affects the way we experience it in a major way. Therefore, it is important for luxury audio equipment to impart a pride of ownership and aesthetic sensibility that ingratiates itself into your system and your home. That's why every model in Aurender's "next generation" product range is built with an eye-catching full-color display to view album cover art, artist, and track information. And, for those moments when the lights are off and all that matters is the music, enable "Critical Listening Mode" to defeat the front panel display and immerse yourself totally in the music and sound.



AP20

All-In-One Digital Source and Integrated Amp /
 200 WPC into 8Ω, 350 WPC into 4Ω / Fully Linear PSU
 Analog R2R Volume Control / Reference Grade DAC /
 Analog & Digital Inputs & Outputs / Headphone Output / Master Clock Input /
 2x User-Installable Storage Slots

AP20 – Elegance. Finesse. Resolution. Power.

If ever Aristotle's adage: "the whole is greater than the sum of its parts" is applicable in audio, it applies to AP20. And, given the quality and quantity of parts in this equation, that's saying a lot.

AP20 delivers unprecedented audio performance from an integrated amplifier. It includes the world's best Class D amp modules in a dual-mono configuration, an analog R2R relay-based volume control and preamp section, Aurender's best DAC, master clock input, headphone output, a suite of digital and analog inputs and outputs, and the most sophisticated linear power supply block Aurender has ever deployed.

All of this performance, with the heart of an Aurender.

Other integrated amplifier solutions on the market may offer support for app-controlled streaming, but in nearly every case, the user experience, library management, and software playback engine are an afterthought. In AP20's case, more than 10 years of industry-leading experience has made Aurender the digital source component of choice in the world's finest audio systems. Now, that same digital playback engine and user experience is available from an integrated amplifier that completely removes the need for more components and cables.

Just add speakers, and enjoy a premium HiFi experience, without all the HiFi boxes.



N30SA – A True Reference

The culmination of more than 10 years of research and product development has led Aurender to N30SA: the ultimate manifestation of state-of-the-art digital music reproduction. Offering the utmost in transparency, resolution, pace, rhythm, dynamics, and a revealing musical expression, N30SA is the only choice for the most discerning audiophile.

This two-chassis digital output network transport redefines what’s possible in terms of the profound musical engagement extracted from files and streams. By separating and isolating noisy power supply blocks, storage drives, CPU, and display circuitry away from sensitive audio outputs, the N30SA creates an uncanny kind of quiet. The kind of quiet that results in the listener’s ability to hear deep into the music and identify each individual instrument with ease – even from the most complex musical passages.

As with N20 and W20SE, N30SA’s SPDIF and AES/EBU outputs are controlled by an ultra-precise OCXO clock to minimize jitter and its negative artifacts, therefore alleviating the harshness that plagues other digital components. A pair of supplied cables for connecting the two chassis are included in 0.5m and 1.5m lengths allowing for further physical separation and noise suppression. An impressive 8.8” full-color IPS LCD display reproduces the album art, artist name, and song title. An 8TB SSD is internally fitted, with a second disk tray for storage expansion, if needed.



N30SA

Dual-Chassis Reference Digital Output Network Transport
1 x 8TB SSD Installed Internally, + 1 User-Installable Drive Tray
USB, AES/EBU, Coaxial, BNC, Optical Outputs, and Word Clock Input

N20

Ultra High-Performance Digital Output Network Transport
2 x User-Installable Storage Drive Trays
USB, AES/EBU, Coaxial, BNC, Optical Outputs, and Word Clock Input



N20 – The New Aspiration

“The Aurender N20 hits the bullseye with simplicity, stability, speed, and sound quality. The product is as simple as possible, but no simpler”, said AudiophileStyle.com and we couldn’t agree more.

N20 sits in the enviable “sweet spot” of cost vs. performance in the middle of Aurender’s range of digital source components. Equally at home in a cost-no-object system or as the cornerstone of a more modest system, N20 is designed to be connected to the world’s best high-quality DACs. the N20 features ultra high-end SPDIF (Coaxial, BNC, Optical) and AES/EBU outputs in addition to an isolated USB Audio output. The SPDIF digital output suite is controlled by a precise OCXO clock for long-term jitter reduction, achieving the perfect marriage of low noise and low jitter. A word clock or master clock input is also provided for users who wish to sync with an external clock, like MC20. High-resolution file support for all major codecs goes to extreme limits, and on-the-fly DSD-to-PCM conversion by FPGA is available for SPDIF outputs. N20 is equipped with two user-installable storage bays, allowing the user to select the drive type and capacity to meet their own needs. The handsome machined aluminum front panel features a large 8.8” full-color IPS LCD display that reproduces the album art, artist name and song title.

A true overachiever, the N20 fully embodies the virtues of high-end audio performance and user-friendliness expected from Aurender.





N200

High-Performance Digital Output Network Transport
2 x User Installable Storage Drive Trays
USB and Coaxial Digital Outputs

N200 – Rack Appeal

N200 represents a milestone in terms of exceptional sound quality, unique feature set, and high value. In order to make N200 accessible to as many music lovers as possible, we have omitted the expensive OCXO-controlled digital audio board in favor of a simple, dedicated USB audio output.

N200 sports all the recent Aurender technological innovations including cache-based playback, a low power Intel quad-core processor, our latest generation modular USB Audio output, double isolated gigabit ethernet port, and super-capacitor based uninterruptible power supply (UPS) for safe shut downs. N200 is capable of handling PCM up to 384kHz and DSD content up to an amazing DSD512!

A 6.9" full-color IPS LCD display renders album artwork and track information in gorgeous detail. We've also expanded the internal music library storage capacity by providing two user-installable SSD/HDD trays to suit your needs. And, if you're 100% streaming, no storage drives need to be installed. N200 delivers audio performance very close to the pinnacle Aurender experience, with only compromises that are irrelevant except in the context of the most extreme high-end systems.



N150

Minimalist High-Performance Digital Output Network Transport
1 x User-Installable Storage Drive Tray
USB Digital Audio Output

N150 – Smart Decision for the Sound Obsessed

N150 is the most accessible and economical entry point to the "Aurender Way" of enjoying music with a stable, reliable, great sounding digital source component. Although it was designed with affordability in mind, in true Aurender fashion, its audio performance decidedly belies its cost. The N150 is the source to choose when upgrading from a cd player, computer, or budget brand streamer to discover the world of true high end, high resolution playback.

Designed to be used exclusively with a USB DAC, the N150 incorporates our latest dedicated USB Audio Class 2.0 output and double isolated gigabit LAN port to lower both noise and jitter for the pristine reproduction of high-resolution files and streams. A high contrast 3" AMOLED screen mounted on a compact and handsome machined aluminum chassis indicates "Now Playing" track info.

Performance and usability enhancing features include a linear power supply, low power/high-efficiency Intel CPU board, super capacitor-based UPS, and a user-installable storage tray for the SSD or HDD that suits your library storage needs.

N150 is the perfect choice for music lovers who care not for the large, full-color screen and SPDIF or AES/EBU outputs of models higher up in Aurender's range. There is nothing "entry level" about N150, except for the price.



A30

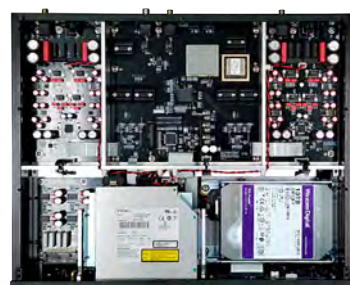
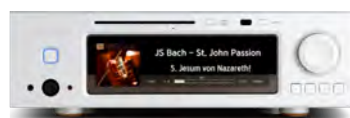
Reference Analog Output Network Player /
MQA Full-Decoder DAC / Headphone Amplifier
CD Ripper / Music Library Manager / 10TB HDD Storage
Variable-Output Balanced XLR and Single-Ended RCA Analog Outputs
USB Digital Output / Coaxial and Optical Digital Inputs

A30– A Marriage of Performance and Convenience

A30 provides everything one needs to create, store, manage, edit, and play digital audio file content in one self-contained music library hub. Equipped with a professional-grade slot-loading CD-ROM ripping drive and 10TB of internal storage, A30 is the answer for archiving your entire CD collection. Advanced library organization including metadata editing, content organization, duplicate detection and removal, and copy/move/delete tasks are possible with Aurender's own A30 Manager companion app.

A30 employs a reference-grade, dual-mono AKM4497 DAC with full MQA Decoder technology to enable the optimal MQA playback experience. With support for digital files up to PCM 768kHz, DSD 512, and integrated access to streaming services, your music library has no limits. As with A200, A15, and A20, A30 can function as the central hub of a fully digital audio system thanks to its ability to function as a preamplifier. Using it in the variable output mode, one can connect directly to a power amplifier. Volume can be adjusted from the front panel rotary, the app on the phone or tablet or from the supplied IR remote control. For other sources, A30's DAC can be utilized via coaxial or optical inputs.

For the head-fi enthusiast, A30's balanced operation headphone output is designed to compete with the best stand-alone headphone amps and DACs. With three different output connector options, A30 delivers the best performance for your headphones.

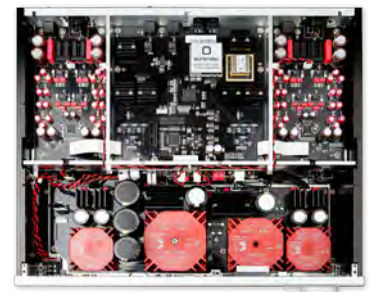


A20 – Music, From Memory

A20 is derived from A30 and delivers the very same reference-level audio performance, but without the CD ripping and library management functionality. A20 also replaces A30's factory-fitted 10TB HDD with two user-accessible bays to install one or two 2.5" HDDs or SSDs for the music storage capacity needed or desired.

Employing the same renowned dual-mono AKM 4497 chipset as that found in model A30, you can expect nothing but the best in sound quality. A20 is ideal for the user seeking exceptional audio performance from files and streams without the fuss or complexity of separate components.

A20's scaled back design makes no compromise where audio performance is concerned. Music lovers who have no need for CD-ripping functionality and want a high-end DAC without adding more boxes will find A20 to be a stellar foundation to any system.



A20

Reference Analog Output Network Player
MQA Full-Decoder DAC / Headphone Amplifier
2 x User-Installable Storage Drive Trays
Variable-Output Balanced XLR and Single-Ended RCA Analog Outputs
USB Digital Output / Coaxial and Optical Digital Inputs





A15

Ultra High-Performance Analog Output Network Player
MQA Full-Decoder DAC / Headphone Amplifier
2 x User-Installable Storage Drive Trays
Variable-Output Balanced XLR and Single-Ended RCA Analog Outputs
USB Digital Output / Coaxial and Optical Digital Inputs

A15 – Elegant Simplicity

The revolutionary A10 changed the paradigm for Aurender by introducing our first music server/streamer with a built-in DAC. A15 is the upgraded replacement of A10, featuring many new features and audible improvements.

And, while it's a true high-performance all-in-one Digital Source Component, it is priced to be highly competitive with comparable separate DAC & Transport setups. A15 is performance-packed with balanced analog outputs and a resolving dual-mono AKM4490 digital-to-analog convertor with MQA full-decoder technology. As with all of Aurender's "A" series, A15 is designed to take full advantage of the vast selection of MQA-encoded music available today. It also has two rear panel bays which can accommodate user-installable 2.5" HDDs or SSDs of up to 8TB each to store the largest of music libraries. An elegant front panel display shows album cover art along with the artist name and song title in living color.

A15 is a great choice for the devoted audiophile replacing an aging CD player, laptop or just for wanting the inherent simplicity of a great sounding one-box source component.



A200 – Functional Finesse

A200 replaces model A100 as Aurender's most compact and economical Analog Output Network Player. Offering superlative audio performance and the renowned Aurender user experience, A200 is an ideal choice for the music lover building a high-performance yet economical digital audio system. By virtue of its all-new low power Intel quad-core processor, low noise linear power supply, MQA Full-Decoder DAC, and adaptive storage system, A200 brings a higher fidelity to your hi-res digital files and streams. The handsome machined aluminum chassis sports a 6.9" color LCD display that oozes elegance and simplicity.

A200 incorporates all the latest generation Aurender innovations, including a single-stereo implementation of the remarkable AKM4490 MQA Full-Decoder DAC, coaxial and Toslink digital inputs, 2X isolated gigabit ethernet port and a Super-Capacitor based uninterruptible power supply (UPS). Two compartments for user-installable storage drives afford the user with massive internal library capacity.



A200

High-Performance Analog Output Network Player / MQA Full-Decoder DAC
2 X User-Installable Storage Drive Trays
Variable-Output Single-Ended RCA Analog Outputs / USB Digital Output / Coaxial and Optical Digital Inputs

ACS10 – Master Content, Control and Sound

"Aurender is trying to kill your computer." – AudioStream

Designed and developed to eliminate the reliance upon computers and other IT products in your digital audio system, the Aurender Content Server (ACS10) unifies the activities of CD ripping, NAS-style storage (with RAID1 mirroring), and advanced library management and metadata editing. All this and much more is incorporated within this network-attached audio component. The included companion app, ACS Manager incorporates easy-to-use menus to perform these tasks right from your iPad or Android tablet. And, in addition to these advanced features, ACS10 also excels as a stand-alone digital output network transport with the same filtered & isolated USB audio outputs found on every other Aurender model (with the exception of ACS100).

CD Ripping, Storage, RAID1 Mirroring

Aurender's CD ripping engine creates the best sounding files from your CDs in your choice of FLAC, WAV or AIFF codecs. Metadata is automatically retrieved and the album cover art and other metadata can be viewed on the front panel display. A TEAC CD-ROM drive extracts the CD data bit perfectly and incorporates AccurateRip software that will verify extracted audio files against an internet database making sure they are error free. Ripping is a one-touch operation with a unique user determined target folder depository. Your perfectly ripped files will be stored on ACS10's internal storage, which may be ordered in following capacities: 16TB (8TBx2), 24TB (12TBx2) or 28TB (14TBx2). These can be configured in RAID1 redundant mirroring or total storage mode giving you the full usable capacity of both drives.

Tag Editing and Library Management

Aurender's ACS Manager companion app contains a Smart Tag Editor for modifying your files' metadata tags to your own specifications. The Copy / Move / Delete utility allows for easy transfer of music libraries from various other network attached devices and can also perform a scan for duplicate file removal. Automatic duplicate detection and removal is available to get rid of annoying duplicates without deleting unique content.

Aurender Ecosystem

One can use ACS10 as a central server for other Aurender players. Connectivity is accomplished over the network allowing the ACS10 to be conveniently located in your main audio system or in a separate location. When used this way, ACS10 functions as your music library central storage unit, with other Aurender devices streaming from the content stored exclusively on your ACS.

ACS10

Music Library Hub / Audiophile Digital Output Network Transport
CD Ripper / Metadata Editor / Dual-HDD Storage / Library Manager



ACS100

Music Library Hub / CD Ripper / Metadata Editor / Dual-HDD Storage / Library Manager
2 x User-Installable Storage Drive Trays

ACS100 – Small Wonder!

ACS100 offers a sensible solution to add CD Ripping, Library Management, and Central Server functionality to any Aurender system. Conceived as an accessory upgrade or add-on, ACS100 includes all the utility of ACS10 in a simpler package.

ACS100 uses a less expensive external switch-mode power supply instead of a linear power supply. It also omits the dedicated filtered & isolated USB audio output since its highest and best use is as a stand-alone Central Server.

Therefore, it is the ideal add-on companion to A200, A15, A20, N20, W20SE, and N30SA. And, while adding valuable functionality to another Aurender, ACS100 can simultaneously be used as a source component for a second system.





MC20 – A New Standard of Accuracy and Stability

In any digital audio system, the rate at which digital data is transmitted and received is of the utmost importance. Specifically, all devices in the digital signal path must be synchronized in order to provide a coherent presentation. Therefore, for the ultimate experience in clarity, transparency, focused imaging, and natural realism, your system's digital source, DAC, and any other upsamplers or converters should all receive the same synchronized clock signal from an ultra-precise and stable source.

The Aurender MC20 is both a Master Clock and Word Clock generator that is inspired, developed, and designed to deliver an exceptionally high level of digital audio realism from a connected music server and/or D/A converter. Thanks to the MC20's superior timekeeping, jitter is reduced to infinitesimal levels resulting in the ultimate timbral purity and rock-steady placement of instruments within your system's soundstage.

At the heart of the MC20 is a rubidium module that generates a 10MHz master clock reference signal. A rubidium clock is employed for its superior accuracy and stability in both the long and short term for ultra-low jitter. Additionally, MC20 contains two discrete OCXO word clock modules for generating the frequencies 44.1 kHz and 48 kHz. MC20 will independently and simultaneously supply the four 10MHz master clock outputs and four Word Clock outputs (2 at 44.1 kHz and 2 at 48 kHz) for unprecedented versatility with a wide variety of Aurender and third-party equipment.



MC10 – Precision time-keeping, without complications

With MC10, Aurender is proud to introduce a master clock solution that retains the primary performance benefit of MC20, and brings exceptional value to the market. In fact, MC10 delivers exactly the same essential performance and benefits as its predecessor but at a much more accessible price point. Aurender has achieved this by removing the dual OCXO word clock modules and associated interface technology, which only work effectively with an extremely limited number of DACs (dCS). In retaining the rubidium-module-based 10MHz master clock generator, power supply structure, and vibration mitigation, MC10 retains 100% of the applicable performance benefits of MC20 in the vast majority of product-pairing scenarios.

MC10 features 4 x 10 MHz master clock outputs, including 2 x 75Ω and 2 x 50Ω. This configuration of outputs pairs well with select DACs, word clocks, and Aurender models with a clock input (N20, N30SA, W20/SE, and AP20). Connecting a clock signal output from MC10 to your Aurender alone can significantly improve the performance of the already ultra-low-jitter digital audio output. Experience the soundstage snap into focus, creating a clear and distinct image of a piano-shaped object, instead of hearing stray notes leaping out from discrete speaker drivers.

Elevate your digital audio experience to the pinnacle of performance by simultaneously connecting one of MC10's outputs to a compatible DAC (Esoteric, CH Precision), or word clock (dCS Vivaldi, Rossini) that accepts 10MHz master clock input.





Aurender Conductor App

for iOS and Android smartphones & tablets

Control by Aurender Conductor

Conductor is an award-winning music management application that is at the heart of every Aurender. Unlike other companies, Aurender is both a software and hardware manufacturer, meaning there's no need for third-party applications, IT connections, or interfaces in your audio setup.

The Conductor app aggregates locally stored content with favorites from streaming services. It is intuitive, easy to use, and simple to master. It promotes discovery and curation of your personal music library, with minimal distractions between you and the music.

Hardware and software work together seamlessly, guaranteeing reliability, stability, and predictability of operation. Plus, Aurender provides an unprecedented level of customer support via our unique Remote Support functionality.

Conductor is always free, with no subscriptions required, and it is supported on iPad, iPhone, Android phones & tablets.

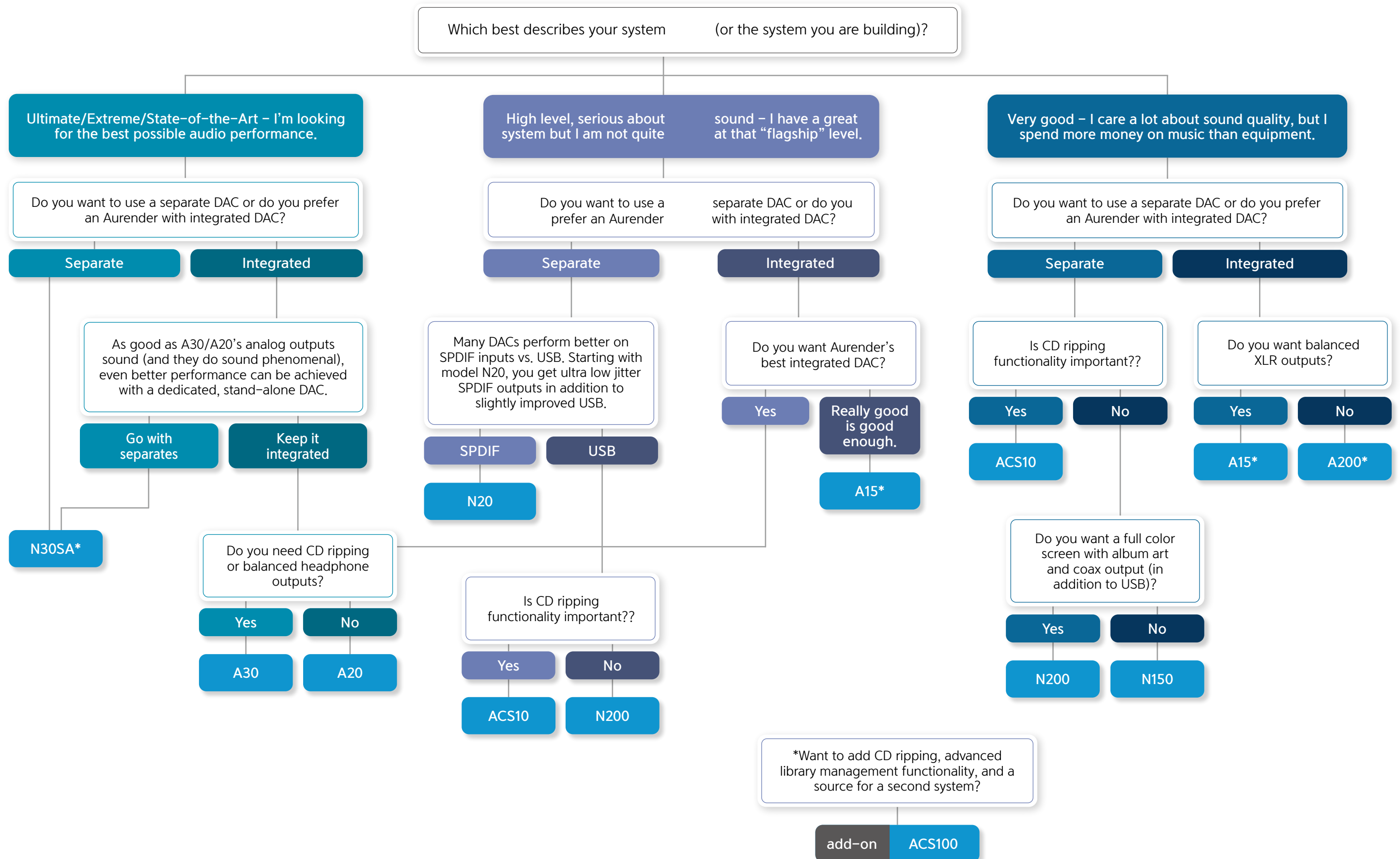
This is the Aurender Way.



Which Aurender is right for me?

There is an Aurender model for every type of serious home audio system. This selection guide will help
The most common determining factors are covered here, but there may be elements beyond the scope of this

distill all the available options down to the correct choice for your system and your expectations.
chart which impart a reason to choose one model or another. Consult your Aurender dealer for more information.



*Want to add CD ripping, advanced library management functionality, and a source for a second system?

add-on **ACS100**



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