

The ideal room:

The dimensions of the room must be carefully verified to ensure that the natural frequency does not generate resonance. Forget golden ratios or other rules of thumb; perfect acoustical insulation takes special expertise: consult us!

Acoustical treatment:

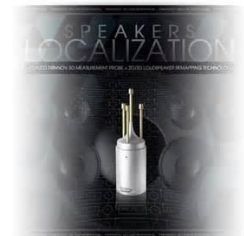
Exceptional home cinema systems must possess highly precise characteristics to ensure perfect reverb decay and silence, and absolutely no light reflected off the screen. You just can't get exceptional sound quality with packaged or standardized acoustical treatment solutions.

We devote an entire section to this topic. Audire was the first European supplier to receive HAA LII certification, and named Audio Guru of the Year in 2006, and for good reason.

Immersive sound:

We are talking about immersive sound here. The first experiments with 3D sound were conducted with complex infrastructures such as the Géode and IMAX. However, these technologies are becoming more common today with the introduction of Dolby Atmos, DTS-X, and Auro 3D sound. Processor quality and speaker placement must be carefully calibrated to reproduce such codings. As a matter of fact, Audire teaches a class at Cedia on this very subject.

Our favorite configurations are 7.4.4, 9.4.10, 11.8.10 and their variants. If the budget allows, the Trinnov Altitude 32 processor is unparalleled, provided the settings are customized. Audire is the leading certified Trinnov distributor.



Don't hesitate to consult us for a multichannel upgrade to immersive sound (Dolby Atmos, DTS6X, Auro 3D or UHD (4K)).

Cinema and High Fidelity speakers:

Despite great sound capacity, many HiFi speakers are not fully optimized when it comes to high-level distortion and power. By the same token, many professional speakers are designed to be robust but don't offer sufficiently fine sound quality. A tradeoff must be made between these two high-quality products, and everything depends on the type and dimensions of the room in which the system is installed. Audire has designed and implemented three-person home cinema systems, but we are also in charge of audio processing and settings for Plastic Omnium's new 90-seat Dolby Atmos auditorium in Levallois-Perret.

Sufficiently powerful amplification is needed, so don't hesitate to combine the best of both worlds. A few examples are Focal Utopia, C-Series, and JBL Synthesis.



Subwoofers:

A minimum of two speaker cabinets is required as a general rule, with four to eight needed to ensure linear subwoofer quality. Preprocessing is preferable to retain the structural linearity of the subwoofer system. It is important to remember that the subwoofers provide the foundation for the sound and must be tuned after the speakers have been broken in. The subwoofers must be perfectly positioned, of course, just like the seating. The laws of physics cannot be denied!

Flat screen to curved screen

We are very partial to the aesthetics of curved screens. Degree of curvature and room dimensions must be considered, because camera lenses and projectors are designed for flat screens. Audire's proprietary system is flat screen-based. Screen dimensions and format must respect both vertical and lateral angles of vision. Depending on the type and native format of the projector, 16/9 or cinemascope format may be used. In any case, automated masking systems may be used to admit both formats. A 2.0 format screen with almost no surface variation is an excellent approach, though this type of screen demands a projector equipped with flash memory lenses.

Settings:

The three secrets to an excellent home cinema system are the right design, faultless execution and precise tuning. Would you buy a car from someone who doesn't know how to tune a vehicle properly? Probably not! Dominique was the first Frenchman to obtain the full range of ISF, ISF II, THX I & THX II, HAA LI & LII certifications (now known as THX sound). Audire possesses a full set of calibrated and upgraded audio and video sound calibration equipment (Sonde video Specbos 1211, the latest Calman and Chromapure applications, complete Goldline TEF multi microphone system, dedicated computer, iPad, Audiotools, Murideo signal generators and real 4K and HDR receptor, Quantum Data generator and THX 2D et 3D sights, etc.). These instruments are used to perform technical diagnostics on existing rooms.



Video server

We have been undying fans of Kaleidescape from day one. Having your home film collection at your fingertips on fault-tolerant servers is a must. Nothing can beat the image quality you will receive with a high-speed internet connection, the next-generation Kaleidescape server and a film in real 4K format. A Kaleidescape server can also be used in several different rooms in the house simultaneously—a big advantage.

Optical fiber ceiling

Though aesthetically pleasing, optical fiber can't be used to cover the entire ceiling if you want optimal acoustics. What is more, optical fiber treatments are incompatible with true Dolby Atmos 3D sound. Sound familiar?

Seating

Seating must be comfortable and much more. Most installers recommend highly-reverberant leather seats. The reverberation of a room varies depending on the number of people in it, and sound quality may be harsh and consequently inconsistent, especially in the medium, or vocal, bandwidth.

It is imperative to upholster seats with *perforated* leather over an open-cell foam core. The best seats must not mask the ears to maximize spectator enjoyment of all sound effects. Unfortunately, home cinema seating is generally not well designed or selected—bulky headrests often prevent optimal audition. What is more, seats upholstered in very light colors or very bright decors significantly alter image contrast, or up to 97% of what we see.

We ideally recommend cloth seats with open-cell foam padding. Traditional suppliers, such as Silvera, also provide excellent seating solutions.



Vibrating seats

The best system is produced by D.Box, our Canadian friends. Slight tuning is required, so this option should be retained by only the most fanatical action fans.

4K canvas and transonic screen

We largely prefer woven screens which exclusively can produce highly realistic advance positioned sound quality. For optimum performance, we particularly recommend wafer-thin 4K screens by Screen Excellence (Enlightor series) as well as Screenresearch screens.

Projectors: brightness, definition

Be very careful when it comes to your projector. We have unfortunately seen installers recommend and sell JVC projectors providing 800 lumens (post calibration) on five-meter wide screens in 16/9 format. However, nearly 3000 lumens are required in 2D to reach 16 foot-lambert per square foot, and potentially much greater depending on the 3D system used. Impossible in this case to achieve truly black shadows and impeccable image quality.

Even if the budget is tight, don't cut corners here. We use exclusively 4K projectors and naturally make the delicate calculations needed for each installation.



Calibration

Would you buy a car from a garage run by people who don't know how to adjust a carburetor or starter? Certainly not, especially if the car were a beautiful Audi, or better yet, a Ferrari or a Porsche!

That's why Dominique has obtained all existing global certifications needed to recognize his expertise, for which he has also received many awards. Dominique also participates in the THX video conference every year and instructs at Cedia on the latest surround-sound technologies (Dolby Atmos, DTS-X, Auro 3D). His expertise ensures that your system will be perfectly designed and tuned to get the most out of its structural linearity. And don't forget that Dominique is a member of the CST, the French technical cinema institute.

Budget

A home cinema installation is worth as much as a fine sports car, or a price ranging from €45,000 to €1,000,000. In any case, each and every system must be expertly designed and tuned.

Security

Even when putting in a dream machine, modern home owners mustn't forget the importance of security and alarm system. Perfect interfacing with entry commands, gatekeeper or alarm systems, lighting management (garden flood lighting in case of intrusion, lockdown of access points, specific protection procedures, etc.) is critical to ensure your safety dynamically and discreetly.

Our smart home expertise will ensure that you can relax and fully enjoy your home cinema while your security systems are keeping watch, ready to sound the alarm if necessary.