plasmapan

TRINNOV AUDIO

AMETHYST

11 SOURCES HIGH-END PREAMPLIFIER
PHONO PREAMP WITH HYBRID TECHNOLOGY
DIGITAL MEDIA RENDERER
24 BITS / 192 KHZ DAC
ROOM/SPEAKER OPTIMIZER
2-WAYS INTELLIGENT ACTIVE CROSSOVERS
BUILT-IN WIFI CLIENT & ACCESS POINT

DESIGNED, MANUFACTURED
AND ASSEMBLED IN FRANCE

Trinnov's unique 3D measurement microphone (optional)

WHY ROOM CORRECTION MATTERS?

The Amethyst delivers an outstanding transparent sound and provides a versatile set of features as well as a rich connectivity, but it really stands out with its built-in **state-of-the-art** room correction system to ensure true-to-source sound reproduction **in your listening environment**.

WHY IS LOUDSPEAKER/ROOM CORRECTION INCREASINGLY POPULAR?

Loudspeaker/room correction was initially introduced in the 1920s in cinema, but evolved dramatically from the 90s as the processing power available started to increase.

From automotive to smartphones, Digital Room Correction is now all around us and prominent High-End audio manufacturers also start offering room correction solutions, relying either on built-in speaker processing, room size simulations and compensations or automatic equalizers.

TRINNOV AUDIO'S CORE TECHNOLOGY AND EXPERTISE

For more than a decade, Trinnov Audio has been developing state-of-the-art Loudspeaker/Room Optimization systems for different audio applications, thereby acquiring a solid reputation and unique expertise in that area. Our customers include some of the **most demanding audio professionals** around the globe.

Our technology relies on **acoustic measurement** performed in situ to account for the exact characteristics of the system. This remains the most accurate approach, but also the more reliable way to **avoid excessive or inappropriate corrections**.

FLAWLESS AUDIO PROCESSING

Digital Audio Signal Processing has always been at the heart of Trinnov's research and development.

Our products deliver an unrivalled level of accuracy in terms of processing to maintain the highest possible audio quality **throughout the signal path**.

While regular DSP-based platform would immediately down sample high resolution audio material, our platform process audio material **natively without any down sampling** up to 192 kHz.

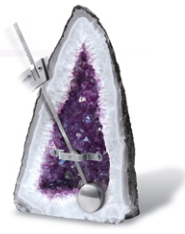
Furthermore, our **64 bits floating point** processing section increases the accuracy of all calculation in a spectacular way to guarantee **true signal integrity** with a resolution greater than 320dB.

This processing headroom also allows us to perform **digital volume control** without any loss of resolution.

TRINNOV

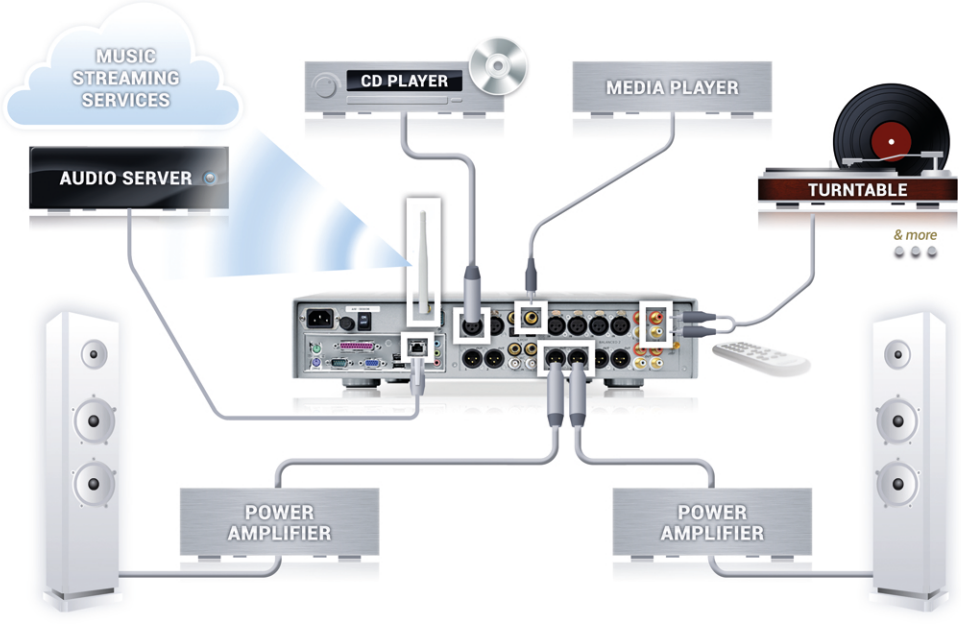
AMETHYST

Not just a gem.



VERSATILE CONNECTIVITY

The Amethyst can accommodate any type of source, from a digital media server to a turntable with its wide range of analog and digital inputs and outputs, built-in **Media Renderer** and **MM Phono** Preamp.



EASY SETUP

The Amethyst features a step-by-step calibration assistant that allows you to create 5 different compensations very easily. A wide range of options and 29 user presets then allows you to proceed by listen and compare to achieve the best possible performance and fine-tune the system to your taste.

REMOTE CONTROL

The Amethyst can be controlled through the network from a tablet, smartphone or laptop.
An IR Remote control is also provided.

MORE THAN 2-CHANNEL

The Amethyst can drive 4 channels simultaneously and features active crossovers as well as bass management to support a variety of systems such as 2.0, bi-amp, 2.1 or 2.2.

TRINNOV OPTIMIZER

LOUDSPEAKER / ROOM OPTIMIZATION

Super Audio Mastering (Mastering, UK)
Depeche Mode, King Crimson, Nick Cave…

Studio Piccolo (Recording & Mastering, CA)
Céline Dion, Andrea Bocelli…

OPTIMIZER, THE CHOICE OF PROFESSIONALS

Over 4000 units are in use worldwide, including 600 in studios
and 1000 in commercial cinemas such as:

BBC · technicolor · radio france · Lamajeure · TOHO STUDIOS

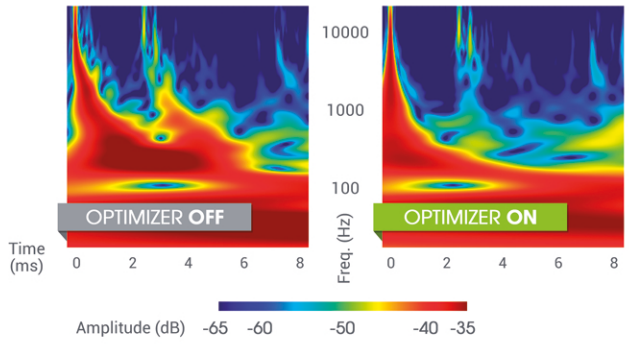
and many more...

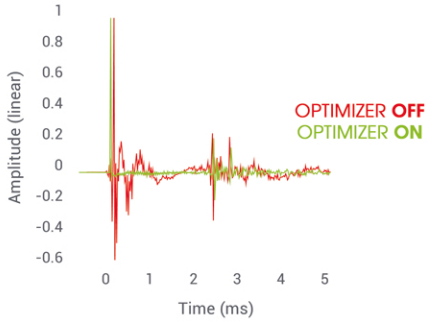
The Optimizer represents the core technology and expertise of Trinnov Audio. For more than a decade, Trinnov has been developing state-of-the-art Speaker/Room Optimization systems for different audio applications, thereby acquiring a solid reputation and unique expertise in that area.

The Optimizer technology relies on Trinnov's unique 3D measurement microphone and advanced time/frequency analysis to identify the different acoustic problems occurring over time in the room. Our algorithms then optimize each element of the acoustic path with the most appropriate method.

The Optimizer determines the required corrections for both the speakers and the room in order to retrieve a coherent sound stage, tonal balance and increased dynamic. Speakers are optimized in amplitude and phase to ensure wavefront coherence while the energy response of the room is judiciously balanced.

Effects of the Optimizer on the Loudspeakers/Room:





IN THE PRESS

AWARDS

"Blue Moon Award" from sixmoons.com (2014)

That's the concentrated know-how hiding inside the Trinnov box which is so impressive. The Trinnov Optimizer to my knowledge is the most subtle correction processor to intelligently balance between truly helpful corrections and those liable to create more problems. If I had to highlight just one special feature of the Amethyst, I would in fact highlight this particular user-friendliness!
Joël Chevassus, 6moons

Elected "Referenz" product by i-fidelity.net (2013)

The Amethyst is a masterpiece. It achieves rarely combined sound attributes: moderate, dynamic, spatially accurate, musical. Through three-dimensional acoustic measurement and flawless corrections for time-accurate playback, the entire system always sounds fantastic and somehow "right". Trinnov has a say with the amethyst now available in the high-end audio market!
Raphael Vogt, i-Fidelity.net

Elected "Référence" product by Haute Fildélité Magazine (2013)

Very fairly priced considering its performance, set of features and human engineering, Trinnov's Amethyst may be considered as the omnipotent nodal point of a very high quality audiophile system. The acoustic correction gives very good results, improving the overall sound noticeably, and even obviously. **Philippe David, Haute Fidélité**

Elected "Best Innovative Solution" at the HiFi High-End Show in Moscow (2014)

REVIEWS

Stereo Prestige & Image, France (2013)

Congratulations to Trinnov, who truly offers as of today the universal tomorrow's preamplifier. To be discovered without the usual "audiophile" preconceptions. The result is an authentic listening experience and definitely tends to more musicality.
Patrick Vercher, Stereo Prestige & Image

Stereo & Video, Russia (2014)

Obviously, the French specialists turned the room acoustic into an audiophile friend and managed to square the acoustic circle.
Vyacheslav Savvov, Stereo & Video

Music Emotion, Netherlands (2014)

The offered functionality goes far beyond the knowledge of the acoustic average user. That is not problematic, as the user presets are more than sufficient to address problems in acoustics and speakers. There is then a preamp / corrector that sets excellent results.
Rudd Jonker, Music Emotion

USERS TESTIMONIALS

The Amethyst should carry a health warning:
Correct use of this product will cause irreversible side effects including:
• A deep addiction listening to music - at the expense of doing any jobs about the home
• Increased electricity consumption - through extended listening sessions
• Tiredness in the morning - listening late into the early hours
• A sore mouth and face - from having a permanent grin on your face.
A.E, United Kingdom

Thank You for the best component I ever bought!! What a massive spectacle and terrific performance. Some guys use ‚golden' power points, please tell them the truth! Cost intensive for home usage, but irreplaceable.
A. F, Germany

I have heard many excellent audio systems in quite a few countries. Compared to these I dare tell you that the audio system in my home performs on the best level I have ever experienced. To a large extent this is thanks to the Amethyst. The sound stage is wide, deep, seamless, holographic and fully transparent; individual speakers have disappeared; huge dynamics and a natural, non-colored sound profile; very precise placement of performers on the stage. Whatever I play, there is only this qualification: LIFE-LIKE, SUPER. You have made a fantastic unit! **W.B, Netherlands**

SPECIFICATIONS

AVAILABLE IN TWO COLORS

LIGHT GREY (default)

BLACK (optional)

11 SOURCES HIGH-END PREAMPLIFIER

- 2 balanced analog sources (XLR);
- 2 single-ended analog sources (Cinch/RCA);
- 1 single-ended analog source with phono switch (Cinch/RCA);
- 2 digital AES/EBU sources (XLR);
- 2 digital S/PDIF coax sources (Cinch/RCA);
- 2 digital S/PDIF optical sources (TosLink);
- 1 High-Resolution UPNP/DLNA network source (Ethernet et Wifi).

BUILT-IN ROOM/SPEAKER OPTIMIZER

- Automated calibration assistant;
- Multipoint acoustic measurements (option: Trinnov microphone);
- Time/Frequency analysis based on impulse response measurement;
- Loudspeakers/Room optimization;
- 2D/3D loudspeakers remapping: virtual positionning;
- No sampling rate conversion (up to 192kHz native processing);
- Editable target-curves;
- Wide listening area;
- Improved phase response;
- Improved tonal balance;
- 64 bit floating point processing resolution.

Optional Trinnov 3D measurement microphone

4 CHANNELS AD/DA CONVERTERS

- A/D signal-to-noise ratio: 119 dBA (A-weighted);
- D/A signal-to-noise ratio: 118 dBA (A-weighted);
- High performance jitter attenuation (better than 50 dB above 100 Hz);
- Supported output sampling rates:
  - A/D: 44,1 / 48 / 88,2 / 96 kHz;
  - D/A: 44,1 / 48 / 88,2 / 176,4 / 192 kHz.
- Supported resolutions: 16 and 24 bits;
- 4x simultaneous inputs and outputs;
- Word Clock input/output.

PHONO MM HybriD PREAMP

- TRINNOV HybriD Technology: innovative RIAA filter, mixing an analog circuit for the low-end and a dedicated digital algorithm for the high frequencies.

HI-RESOLUTION NETWORK RENDERER

- High-Resolution file rendering;
- UPnP Protocol (Digital Media Renderer DLNA compliant);
- Supported codecs: WAV, AIFF, OGG, FLAC up to 24 bits/192 kHz.

ACTIVE CROSSOVERS / BI-AMPLIFICATION

- 2-ways intelligent active crossovers engine;
- Filters: 2nd, 3rd and 4th orders, Bessel, Butterworth. 2nd and 4th orders Linkwitz-Riley;
- Measurement and alignment at the listening point.

REMOTE CONTROL

- IR remote included;
- Telnet and RS-232 protocols;
- Built-in WiFi and built-in Ethernet Gigabit;
- KVM: screen on VGA/DVI, keyboard and mouse on PS2/USB;
- VNC: remote control through the network with any tablet, laptop or smartphone.

OUTPUTS FORMATS

- 1x stereo system;
- 1x bi-amp stereo system;
- 1x 2.1 system;
- 1x 2.2 system;
- 1x 3.0 (LCR) system;
- 1x 3.1 (LCRS) system;
- 1x quadriphonic system.

POWER

- Linear power supply based on a low noise toroidal transformer for analog stages;
- Switch-mode power supply for digital stages.

+33 (0) 147 066 137
(France)

highend@trinnov.com
support@trinnov.com

facebook.com/TrinnovAudio
twitter.com/trinnovaudio

www.trinnov.com

©2003-2016 Trinnov Audio, all rights reserved. All other trademarks remain the property of their respective owners. Due to constant improvement, all products specifications and design may change without notice. Photos and illustrations are non-contractual.

plasmapan