

THESIS

PRODUCT CATALOGUE 2020



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THESIS

BEYOND THE ABSOLUTE THE THESIS PHILOSOPHY

In the Marche region, a geographical area world-famous for the production of esteemed musical instruments, Audison started its long history in the pursuit of audio performance perfection.



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Pantheon, Rome

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The ambitious Thesis project boasts the latest technologic innovations, in harmony with the Italian tradition and culture.

The Thesis project, a perfect synergy between TECHNIQUE AND EMOTION, is dedicated to the most demanding audiophiles.

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Distinguished by the absolute lack of compromise and the very high technological content, it reserves parameters of excellence and absolute quality to each component.



TH 1.5 II Violino, tweeter

TH 6.5 II Sax, woofer

TH 3.0 II Voce, midrange

HV Venti, amplifier

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HISTORY

Audison has a long history in the pursuit of perfection in audio performance. As early as 1991, HR 100 stood out as a benchmark, bringing the Audison brand into the Olympus of Hi-End manufacturers. Produced up to the year 2003, it has never been forgotten by fans all over the world.



'91

HR 100, amplifier

Four years later the THESIS brand was created. Using the latest technology, Audison once again rewrote history on amplifier performance. In 1994 and in 1995 respectively, HV sedici and HV trenta amplifiers came to light.



'94

HV sedici, amplifier



'95

HV trenta, amplifier

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Villa Cordellina Lombardi, Vicenza

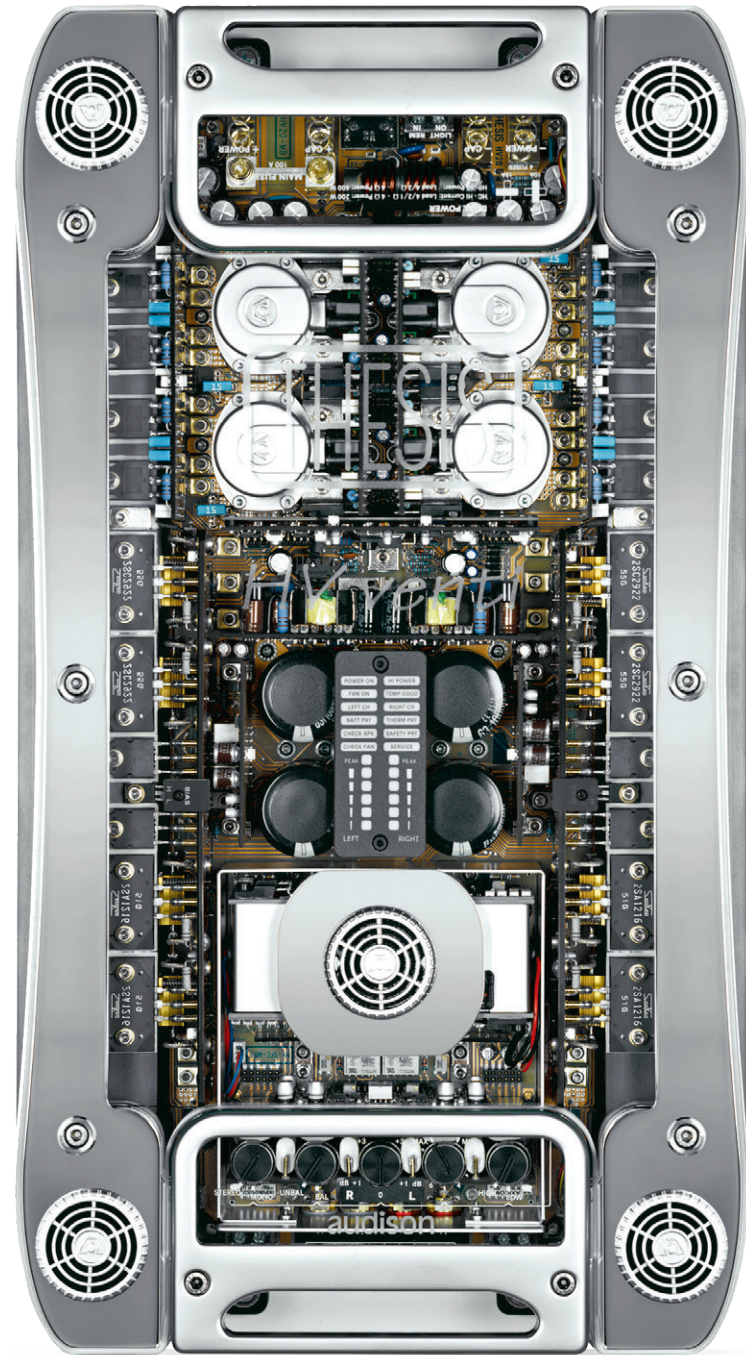


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THESIS

THE AMPLIFIER

HV VENTI



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Teatro Massimo, Palermo

THE HIGHEST ATTENTION TO DETAILS AND TECHNOLOGY.
THE PERFECT MIX OF AESTHETICS AND PERFORMANCE.

HV venti originates from the merging of these legends: HR 100 musicality and HV sedici power blend together to give life to the amplifier par excellence.

Like its predecessors, HV venti is an absolute reference product for the years to come, indelibly marking the history of Hi-End mobile electronics.

This stereo amplifier built according to extremely Hi-End parameters establishes a direct link between electroacoustics designers and audiophile enthusiasts, who always simply look for the best in a common passion: listening to music.

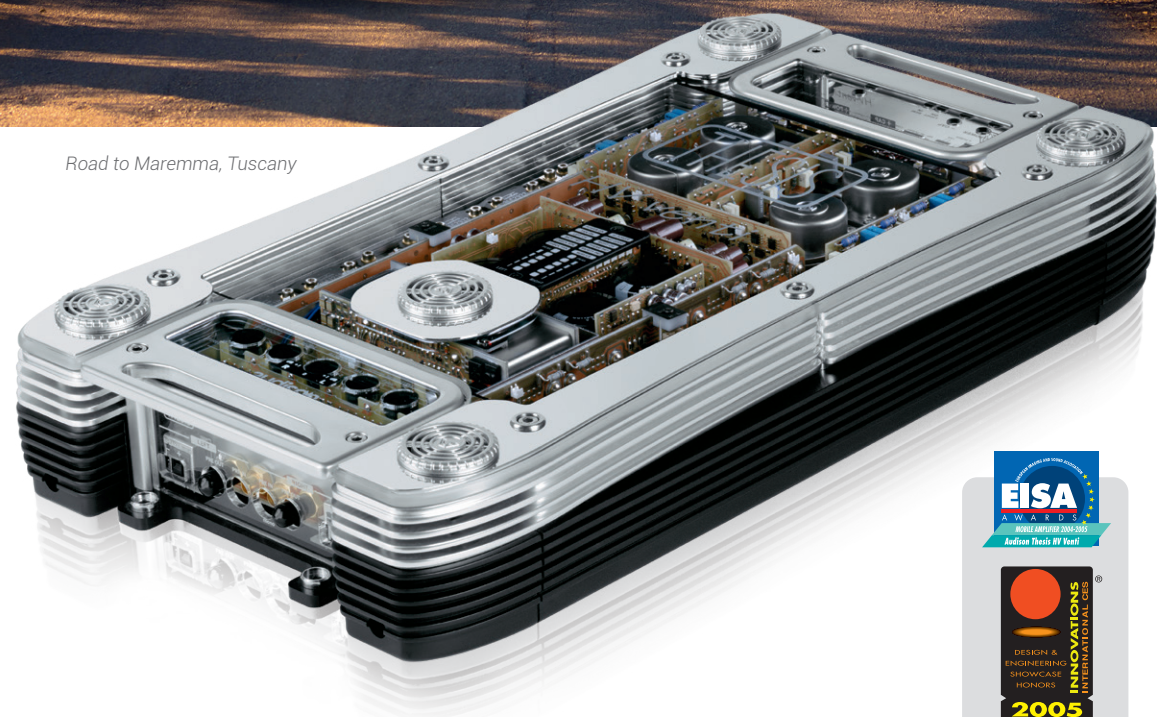
Through the development of the HV venti project many technological innovations were introduced. Dual mono construction, four power supplies, low feedback and high bias current: these are only some of the solutions adopted to obtain reference performance. The HV venti combines a Hi-Tech work of art with maximum listening pleasure, and it is definitively a unique device that can make its owners extremely proud.



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Road to Maremma, Tuscany



THE REASONS OF THE EISA JURY FOR AWARDING THE PRIZE:

"The Thesis HV venti sets new standards in the world of car audio amplifiers. Only an extremely experienced designer could have created such an exclusive product. The six-stage power supply, the two mode amplifier (high current, high power), the completely hi end, discrete devices and straight sound path will be well appreciated by the musical enthusiast. But it's only the result of a deep reconsidering of the meaning of the mobile amplifier concept. Every part of the Thesis HV venti was a rethink, and every single component was optimized using the most exclusive devices, solutions and materials. Every electronic, mechanical, thermal and aesthetical aspect was improved by going back to the beginning. The Thesis HV venti is the wonderful synthesis of an extraordinary engineering effort."



DUAL MONO CONSTRUCTION

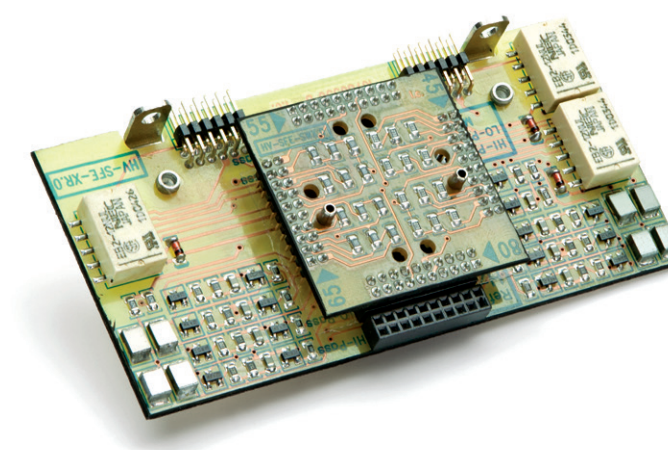
Four Synchro-PWM power supplies allow a very fast transient current response and create a Dual Mono configuration.

MOSFET-BJT HYBRID CONFIGURATION

HV venti employs a unique output power stage topology, discrete IGBT, made by two Hitachi DMOS driving two pairs of complementary Sanken power BJT, each rated for 30A peak current and 200 W dissipation.

A-CLASS PREAMPLIFIER AND DRIVER

Made of two groups, the whole stage is balanced up to the driver outputs and A Class biasing.



HI-END CROSSOVER

To guarantee maximum sound quality, the crossover was made on a separate module supplied with the product.

SPEAKERS

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THE MISSION

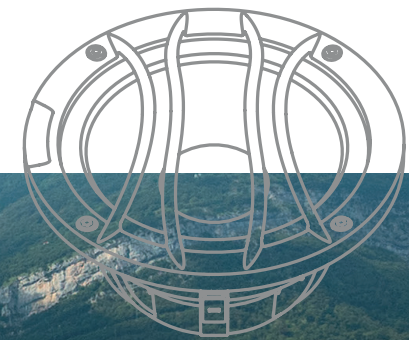
TH loudspeakers were created to combine the precious musical message of the Thesis electronics and absolute fidelity with the ambition to be completely transparent, leaving room only to the emotion evoked by the music.

The search for the best acoustic result was based upon overcoming the intrinsic limits of traditional loudspeakers.

Through a finite element simulation software (FEM) conceived by the Audison R&D team, a mathematical model was developed in order to create, with an intense prototyping activity, the ideal transducer.

With the Thesis II speakers, the Audison R&D team has reached a significant revolution: producing a speaker system that can "drain every last drop" from the Thesis amplifiers. Unique and groundbreaking: beyond the absolute.

Villa Melzi, Bellagio



TH 1.5 II VIOLINO



San Gimignano, Tuscany



The TH 1.5 II project can be defined with only one word: unique. The materials, tolerances and assembly process were designed from scratch, without any compromise, to overcome the absolute.

Extensive research has been dedicated to the selection of proper fiber size, textile weaving and profile geometry of the natural silk dome to obtain an extremely linear phase and frequency response up to 26 kHz, an exceptional goal for a 29 mm dome.



FULL SOLID METAL CONSTRUCTION
The solidity of TH 1.5 II is well noticeable in its mechanical all-metal structure composed by parts exclusively designed, screws included.

SPECIAL VOICE-COIL
34 mm CCAW single layer voice coil combining light weight, stability at lower frequencies and total absence of musical transients compression.

OVERSIZED MAGNETIC GROUP
Extremely powerful custom N38 "H-grade" Neodymium magnet providing 1.67 T*m in the magnetic gap for superb dynamic response and very low distortion in the whole frequency range.

AIR-LOADING SYSTEM
Exclusive air-loading system resulting in a resonance frequency below 800 Hz, for filter set-up starting as low as 1.5 kHz - 12dB/Oct.

THESIS

TH 3.0 II VOCE



Villa Melzi, Bellagio



The human auditory system processes the range of medium frequencies with maximum sensitivity and selectivity because it makes the voice intelligible from the rest of the audio spectrum. The R&D team started from this simple principle to design from scratch a speaker dedicated to this fundamental range of frequencies, with the simple as well as ambitious goal of extreme linearity, in order not to add or hide anything of the signal reproduced, enhancing in this way every nuance.

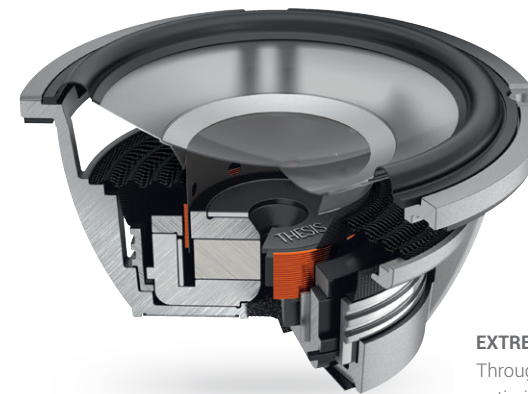
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THESIS



ULTRA HIGH CONTROL

The extremely powerful custom N38 "H-grade" Neodymium magnet ensures unmatched control of the mobile group and the aluminium ring nullifies the intermodulation distortion otherwise generated at peak excursions.



EXTREME LINEARITY

Through finite element simulation (FEM) the Audison R&D team has optimized the break-up point between cone/surround, obtaining an ultra-linear frequency response in the mid-range. The generous 30,5 mm CCAR (Copper Clad Aluminium Ribbon) voice coil wound with flat wire gives the TH 3.0 II Voce an extraordinary excursion and minimizes at the same time the cone non-linearity.

TPX® CONE

TH 3.0 II Voce membrane is made of TPX®, a transparent material that ensures frequency response linearity leaving the speaker interior in full view.

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TH 6.5 II SAX



Villa Buonaccorsi, Potenza Picena



The TH 6.5 II Sax was born from a blank sheet with the aim of overcoming all the limits dictated by compromise-oriented design choices.

This philosophy allowed us to obtain extreme performance and a design projected into the future, faithful to the inspiring principle of maximum transparency of the musical message.



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MONOLITIC TPX® CONE

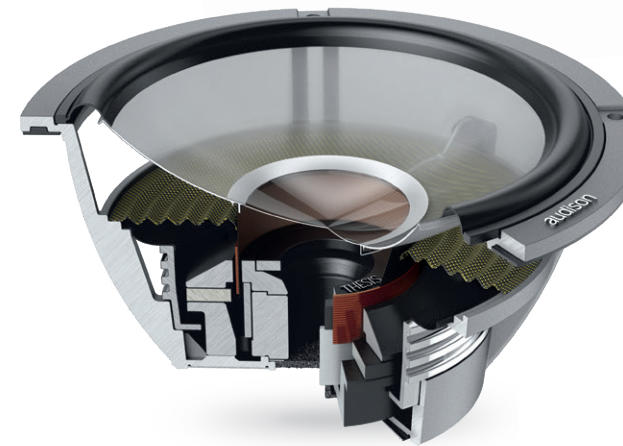
TH 6.5 II Sax membrane is made of TPX®, a transparent material that enhances frequency response linearity in the mid-high band, leaving the speaker interior in full view.

TOTAL ABSENCE OF THERMAL COMPRESSION

The 50 mm mobile coil in CCAR (Copper Clad Aluminium Ribbon), wound with flat wire to obtain a very compact winding, maximizes the force factor and at the same time allows for optimal heat dissipation.

TOTAL ABSENCE OF AERODYNAMIC COMPRESSION

The mechanical structure of the TH 6.5 II is a perfect combination of design and performance. The Aluminium alloy basket incorporates all the components ensuring high precision in the various couplings. The central opening in the bottom-plate ensures optimal decompression of the air column inside the voice coil and the output expanded material diffuses the turbulences and protects it from ingoing foreign bodies.



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TH K2 A CORO



Pompei and Vesuvio volcano, Naples

The alchemy generated by TH 1.5 II Violino with its partner TH 6.5 II Sax can not be described in words, you need to listen to them playing first. The suggested crossover point of 1.5 kHz elevates the sound stage, extended far beyond the car cockpit boundaries, allowing TH 6.5 II Sax to work as a pure woofer, performing at its best in a zero-dispersion zone, like a pure air-piston. Thesis no-compromise system allows the enthusiast to reach reference performance both with multi-amplified active systems and using its dedicated "passive" crossovers THX 2 II, according to the user's personal taste.

"Audison's no-nonsense approach means that the TH K2 II A Coro eschews fripperies and instead employs the very best materials for the job at hand. This two-way kit comprises a 165mm cone woofer and 38mm dome tweeter, both featuring over-sized neodymium magnet assemblies to extend response and dynamics as far as possible. All design and engineering parameters are pushed to the very max, and with a 24-month development period for each drive unit, Audison's efforts have clearly borne fruit. These spectacular drivers are perfectly equipped for partnering with modern DSP technology, and ready to action the smallest adjustment to any setting."



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THX 2 II, crossover

TH 1.5 II Violino, tweeter

TH 6.5 II Sax, woofer

THX 2 II

Manually assembled with selected components, and designed according to standards of ergonomics and accessibility, THX 2 II meets the highest demands in terms of technical and acoustic quality.

HI-END LAYOUT

The robust and efficient mother board has been designed following high-level standards, using a 2 mm thick printed circuit board with 105µm copper traces. The very solid aluminium chassis along with the stunning transparent plexi cover comply with the stylistic criteria employed within the entire Thesis line.

OPEN DESIGN

The THX 2 II crossovers are not bound by a "single ideal" or by rigid parameters; they allow the user to manage all of the settings that affect in-vehicle acoustic results by directly modifying the components electric path, with audiophile performance.

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TH K3 II A ORCHESTRA



TH 1.5 II Violino, tweeter

TH 6.5 II Sax, woofer

TH 3.0 II Voce, midrange

Listening to a full orchestra in a prestigious theatre is an experience that remains well impressed throughout life. For this reason we have named the highest Thesis three-way system, Orchestra, to evoke an exceptional event that generates extraordinary pleasure.

TH K3 II A Orchestra system performance is far greater than the one achieved using individual Thesis components, reaching values of excellence, going beyond the absolute.



Trevi Fountain, Rome



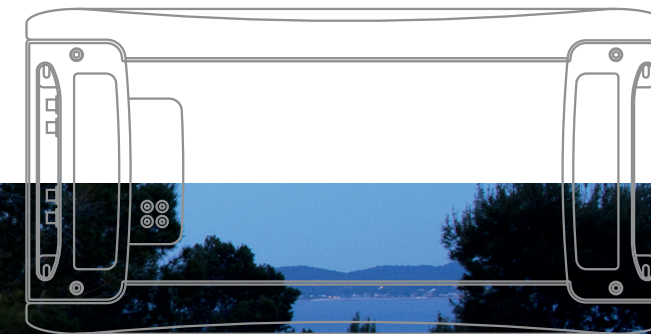
AMPLIFIERS

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This amplifiers are born with the know-how and experience achieved with the HV venti, improved by the innovation of digital technology. The result is a perfect combination between the highest level of analog technology and the advanced features of digital technology in one unique product.

The precious synergy with Full DA HD technology takes the in-car listening experience to a new level of excellence; the synthesis of a unique know-how employed in mobile audio reproduction.



Design Villa, Lake Garda

TH AMPLIFIERS



Roman Amphitheater, Siracusa



TH quattro, amplifier

TH quattro is a four-channel amplifier fully adjustable and entirely manageable by the internal microprocessor, for limitless system configurations.



TH uno, amplifier

TH uno: mono amplifier to achieve maximum performance under any load. Specifically designed to drive systems and subwoofers with self-assured mastery.

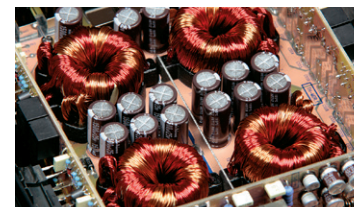


TH due, amplifier

TH due: bridgeable stereo amplifier, is the natural partner for systems where versatility, power and quality are the main parameters. The ultimate amplifier.

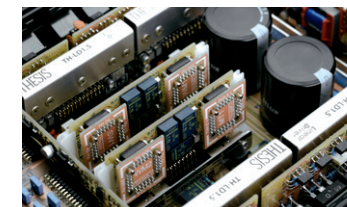


"This amplifier strikes a perfect balance between the latest digital technology and traditional analogue audiophilia. Driven by a four-stage power supply, this amp offers four different configuration options: A class, A-B class, Hi A-B class and Energy Saving. Analogue inputs may be connected for a traditional straight signal path, but with the facility to run through a fully configurable active crossover stage. Additionally, there an S/PDIF digital input available to permit a direct connection to the powerful internal 24-bit, 192 kHz D/A converter, and then the amplification stages. Amplifier configuration and signal path are controlled digitally by the built-in ASC (Amplifier Status Control) and Status Display, neither of those interfere with the signal path - which is a new concept for in-car audio. TH amplifiers can be digitally addressed and controlled by an external Digital Remote Control (DRC) to build a complete digitally controlled audio network in the car.



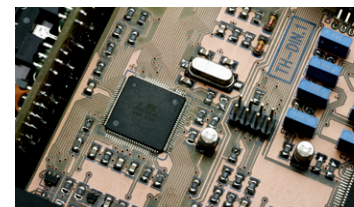
DOUBLE POWER FUNCTION

A revolutionary function allowing the user to select the amplifiers output power configuration and the operating class.



REMOVABLE CROSSOVER

Inherited from the HV venti and making the most of TH's extreme versatility, the complete crossover circuit of the TH amplifier is removable; a high-end sound quality solution.



BIAS CONTROL

Provides the selection of four possible presets: Energy Saving, Hi-Current, Hi-AB Class and full A Class operation.



DIGITAL INPUTS AND OUTPUTS

Innovation is at the heart of the state-of-the-art digital decoding section. The S/PDIF optical input allows direct connection to digital sources with the ability to re-launch the digital signal to other Thesis amplifiers through the AD Link (Audison Digital Link) system. Each amplifier features 192 kHz/24 bit PCM D/A conversion through a very high quality converter.



All models integrate a hi-end digital decoding section that makes them compatible with Audison Full DA HD technology, to better appreciate the higher resolution of Hi-Res audio files.



OPTIONAL DRC CONTROL

When connected with the DRC control accessory, the microprocessor converts the D-CAVC into a volume control that can replicate all other low frequency controls (Master Volume, Balance, Fader, Sub Volume).



Piazza della Signoria, Florence

COMP

TECHNICAL SPECIFICATIONS		TH 1.5 II Violino	TH 3.0 II Voce	TH 6.5 II Sax
Size	mm/in	38 (1.5)	70 (3)	165 (6.5)
Dome/cone		Tetolon®	TPX®	TPX®
Magnet		N38 "H-grade" Neodymium	N38 "H-grade" Neodymium	N48 "H-grade" Neodymium
Power handling	peak W	200 (Hi-Pass filtered @ 1,8kHz - 12 dB / Oct.)	110	300
	continuous W		55	150
Impedence	Ω	6	4	4
Freq. response	Hz	800 ÷ 26k	110 ÷ 5.7 k	40 ÷ 4.5k
Sensitivity	dB/Spl	92,5 (bottom case) / 93 (bottom disk)	86	87


*THG 1.5 II, THG 3.0 II, THG 6.5 II mesh grilles are optional

SYSTEM

TECHNICAL SPECIFICATIONS		TH K3 II	TH K2 A	TH K2 P
Components		TH 1.5 II Violino + TH 3.0 II Voce + TH 6.5 II Sax	TH 1.5 II Violino + TH 6.5 II Sax	TH 1.5 II Violino + TH 6.5 II Sax + THX 2 II
Power handling	peak W	350	300	300
	continuous W	200	150	150
Freq. response	Hz	40 ÷ 26k	40 ÷ 26k	40 ÷ 26k
Impedence	Ω	4	4	4
Sensitivity	dB/Spl	87,5	87	87

*THG 1.5 II, THG 3.0 II, THG 6.5 II mesh grilles are optional

AMPLI

TECHNICAL SPECIFICATIONS			TH uno	TH due	TH quattro	
Channel Mode			1	2 - 1	4 - 3 - 2	
Output Power (RMS) @14.4 VDC Dual Power - Hi-Current	@ 4 Ω	W x Ch	850 x 1	300 x 2	160 x 4	
			-	1000 x 1	150 x 2 + 540 x 1	
	@ 2 Ω	W x Ch	-	-	500 x 2	
			1500 x 1	500 x 2	260 x 4	
Dual Power - A Class	@ 1 Ω	W x Ch	-	1500 x 1	250 x 2 + 650 x 1	
	@ 4 Ω	W x Ch	2300 x 1	750 x 2	700 x 2	
Amp Chain	@ 4 Ω	W x 2 Amp	200 x 1	80 x 2	55 x 4	
	@ 2 Ω	W x 2 Amp	3000 x 1	-	-	
Filters			4500 x 1	-	-	
Modules	TH- MXR / Not mounted			1 / Bypass	2 / Bypass	
TH- MXR Specifications			Hi-pass / Lo-pass / Band-pass @12 / 24 dB / Oct. (32 steps 18 ÷ 7.5 k Hz)			
Inputs			Analog, Digital, Optical, AD Link			
THD	1kHz @ 4 Ω	%	0.01	0.02	0.03	
S/N Ratio	A weighted @ 1 V	dB	106	106	104	
Damping factor	1kHz @ 4 Ω , 2 VRMS		500	100	80	
Size	W x D x H	mm	259 x 510 x 67			
		inch	10.2 x 20 x 2.63			
	RMS Output Power	4 Ω, 1% THD, 14.4 VDC	W x Ch	700 x 1	300 x 2	150 x 4
	S/N Ratio	Ref. 1 W Output	dBA	75	80	80



TECHNICAL SPECIFICATIONS			Hi-Current	Hi-Power
Channel Mode			2 - 1	
Output Power (RMS) @14.4 VDC	@ 4 Ω	W x Ch	200 x 2	400 x 2
			800 x 1	1600 x 1
	@ 2 Ω	W x Ch	400 x 2	800 x 2
			1300 x 1	-
@ 1 Ω	W x Ch	650 x 2	-	
Filters	Bypass		Amp / Out (Pre)	
	Hi-Pass	Hz @ dB/Oct.	45 - 55 - 65 - 80 @ 12	
	Lo-Pass		45 - 55 - 65 - 80 @ 12/24 (Mo)	
THD	1kHz @ 4 Ω	%	< 0.05	
S/N Ratio	A weighted @ 1 V	dB	100	
Damping factor	1kHz @ 4 Ω		80	
Size	W x D x H	mm	280 x 510 x 85	
		inch	11 x 20 x 3.3	

AUDISON HISTORY

THE UNION OF ORIGINS, HISTORY AND INNOVATION



The Audison name derives from the fusion of the Latin words AUDIO AND SONUS; they represent the historic roots and philosophy of this company, which was created and located in the Marche region, Italy, a geographical area world famous for the production of appreciated musical instruments, initially by highly specialized handicraft, nowadays by cutting-edge electronic industries.

An exceptionally stimulating habitat for a reality made of music, tradition and electronics.

This is where everything started, in 1979, when a group of technicians, coming from different electronics fields and sharing a passion for high-fidelity, gathered around a dream called Audison.

Clockwise from the top: the first Audison amplifier; the founding associates: Pietro Pantaleone, Maria Riccobelli, Emidio Vagnoni; Potenza Picena, Italy

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ISTINTO INNOVATIVO

It is embedded in Audison philosophy and reflected in every aspect of the product. Innovation is what shapes the whole design process and begins with conceiving amplifiers, speakers and digital processors that deliver unique value and enhance in-car listening experiences.

Design also means extreme care for every detail, not only aesthetics but perfection of performance, in its purest form. That is where the distinctive Audison essence manifests itself.

TECHNOLOGY AND EMOTIONS, HAND IN HAND

Therefore, further to our original results, through internal pioneering research activities, Audison develops masterpieces of technology and design, thanks to its R&D team impressive mastery. Unveiling a new frontier in high-fidelity in-car reproduction, Audison allows audiophiles' wildest dreams to come true.

PASSION AND CARE ARE THE TRUE DRIVERS

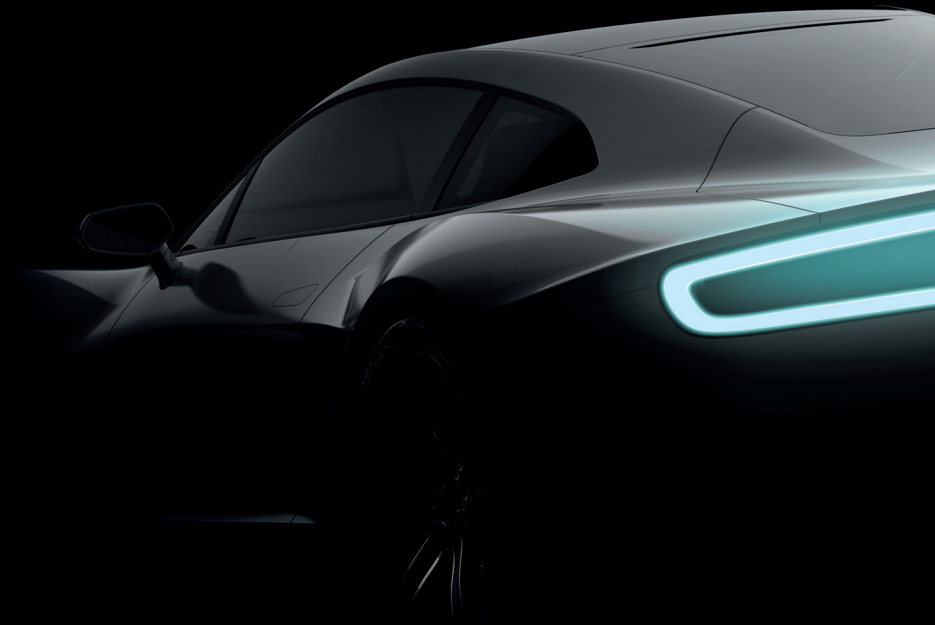
Audison is devoted to in-car high fidelity as a form of art, which requires passion and care down to the smallest detail, expertise in the selection of materials, high standards for each production phase, the most advanced testing tools and the strictest quality control procedures. Acoustic quality cannot accept compromise.

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ideato,
progettato,
costruito
in Italia

THESIS



All specifications subject to change without notice

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PART OF ELETTROMEDIA
62018 Potenza Picena (MC) Italy
T +39 0733 870 870 - F +39 0733 870 880
www.elettromedia.it