



EON ART

QUARK

INTEGRATED AMPLIFIER



208 Wrms (8 Ω), 333 Wrms (4 Ω) of type A+D

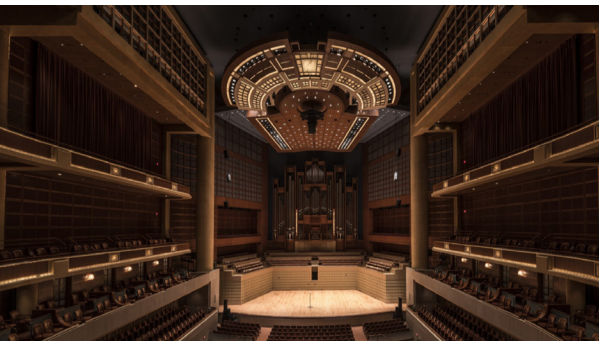


The Quark integrated hybrid amplifier

Our solution is unique. First it offers the best of what transistors and lamps can mutually offer; this translates into warmth, neutrality and power. Second, the Quark stereophonic integrated has a modular card for easy replacement of all its usable components making the system the first monophonic block ecologically minded HiFi amplifier in the world. Finally, it offers the best warranty in the industry.

The Quark has scaling capabilities and can be integrated into the majority of existing listening room configurations. This is giving you more options in the system choices.

Eon Art amplifiers use only proven and tested technologies. Some of these originated in the medical, jet fighter and marine electronic worlds. We hope to be able to find our amplifiers in a growing number of yachts and prestigious residences.



Eon Art and the Boson are the creation and implementation of Mr. Stéphane Hautcoeur. Research and development began in France in 2008 and continued in Canada until 2022. These 14 years offer us the Quark integrated Hybrid Stereophonic Amplifier.

About EON ART



Each amplifier implements two amplification channel including also the preamplification stage. You connect your sources directly to the Boson blocs.

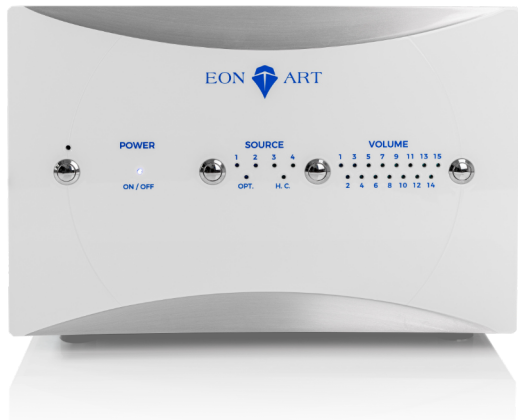
It also offers a large 194,000 μ F power reserve which gives it deep bottom.

Eon Art Canada Inc. is the result of 2017 structure modification of Eon Art Haute Fidélité, founded in 2012 in France, for it's move to Canada.

The company is based in Chandler, Quebec, Canada and is in partnership with Art Logik an Electronics and scientific computing firm.

Music can be defined as the immediate and pure transmission of emotions through sound. The recognition of the finest detail must be done in a natural way and the Boson of Eon Art makes it possible.





Front view: Simple and flexible design inspired by the yacht Lady M. Cabinet finishing and assembly by Oracle Audio Technologies.



View 3/4: A 7 mm aluminum case on a semi-precious Labradorite stone base with a massive 19mm façade.



Top view: A shield that protects against most electromagnetic waves and a unique high gloss finish.

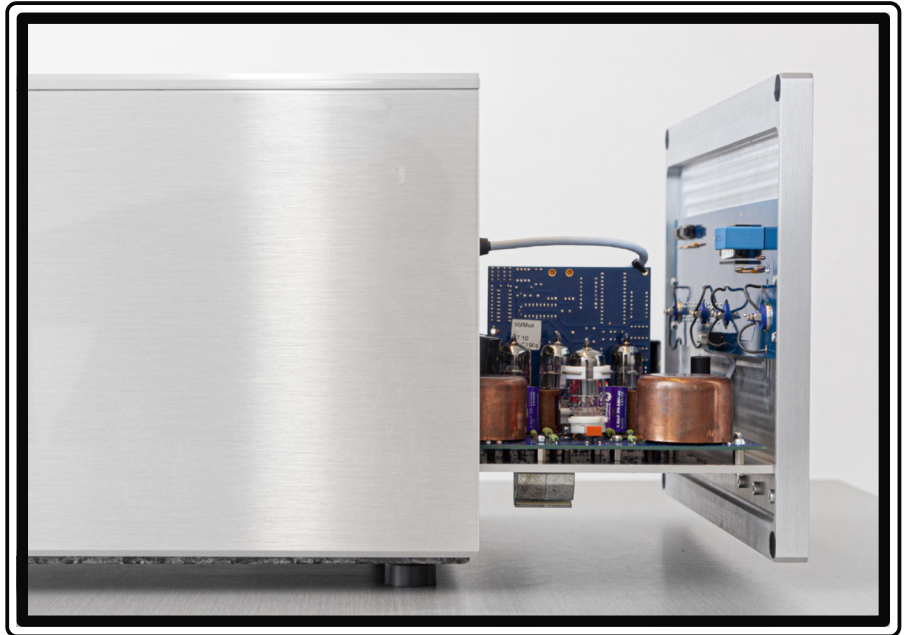


Rear view: A lock secures access to the rail system and the inside of the enclosure.



**The only high-end A+D
monophonic integrated
amplifier in the world.**

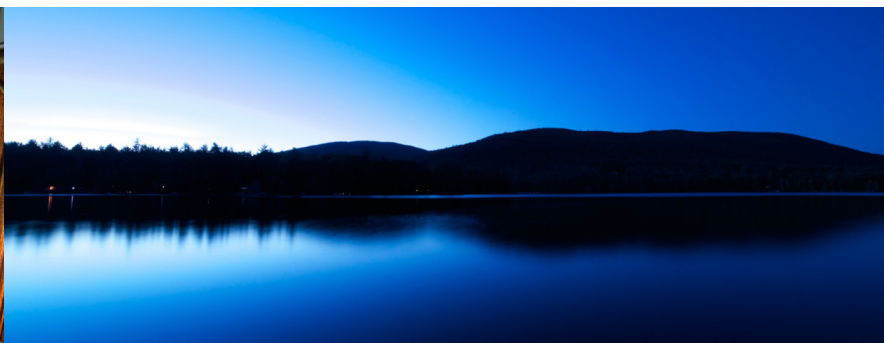
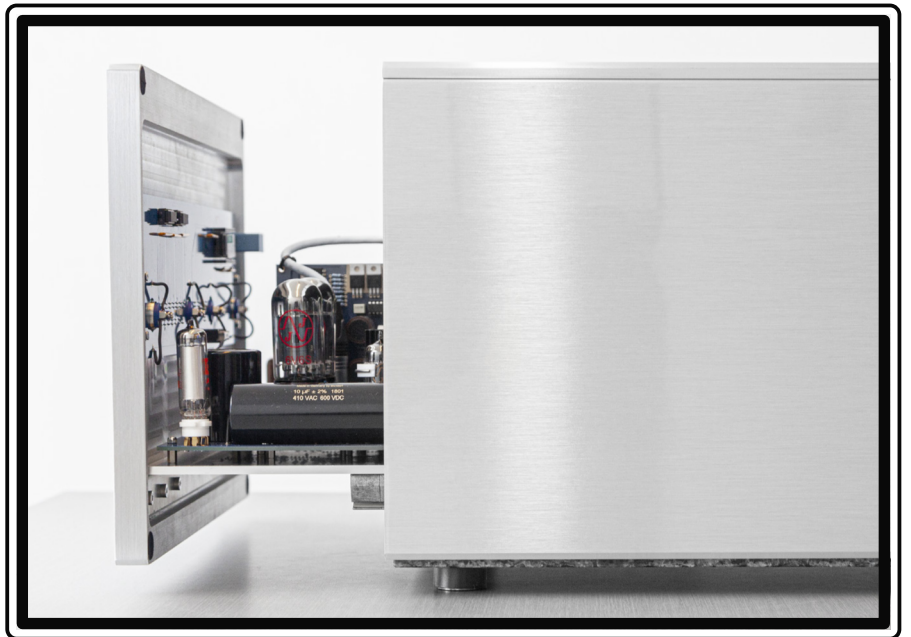
Experience unique musical emotions with this masterpiece of computer science. A generous power at all levels of volume that retains a warm, Soft and transparent sound. Not only is this amplifier unique, it is revolutionary in its Sustainability and environmental aspects. In addition, it has the longest guarantee of his class.



First Class Design

Our casing won two prize in at the Montreal International Design contest. Taking out the cradle on its rail system you immediately notice a new architecture.

Made with expertise it is Intended to make music; not only to push sounds. The components are carefully selected and tested in order to recreate a hearing experience identical to what you would have experienced during the recording.



Neutrality



The capacitors used on the path of the audio signal are all audiophile quality and bear the brands of recognized suppliers such as Amtrans, Clarity, Duelund, Mundorf and Solen. Those used in the most sensitive places are shielded. We ensured that their quantity was adjusted to provide no phase rotation and to use multiple complementary models with a different sound signature in order not to exacerbate it. We thus avoid the usual problems with the use of capacitors and guarantee the utmost neutrality of their action on the music.

Exclusivity

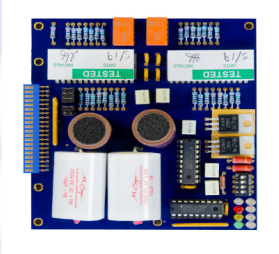


Since 2018, Eon Art Canada is the only amplifier company that has managed to produce an architecture that optimizes the selection of its components and the engineering of its circuits with a supercomputer simulation-assisted design process which allows to optimize the value and the choice of components. This brute force computing process can't be done otherwise than by supercomputer as the 800 cores machine we have. This unique technology ensures that any improvement that can be achieved on a circuit is actually done.

This results in a tube sound, that is, with details, image, and emotions without being limited to high efficiency loudspeakers that would otherwise be needed. It is admitted that, the great force exclusive to the Boson, is also to be able to drive loudspeakers with difficult behavior without the traditional compromises.



Ultra low distortion volume control



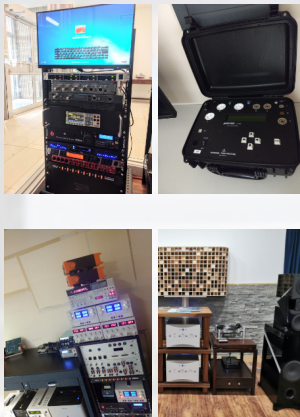
Amplifier volume level is controlled by a set of individual high stability, very high precision and medical grade, thin metal film resistors which are selected by transistors. The complete absence of relays and mechanical potentiometer, as well as the circuit topology guaranteed a rate of distortion lower than those offered by competitors volume controllers, without any other impact on the source seen by the amplifier stage or mechanical wear.

External power

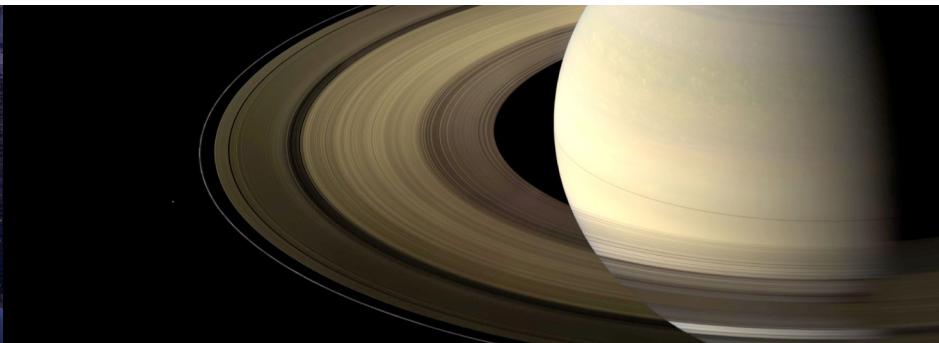
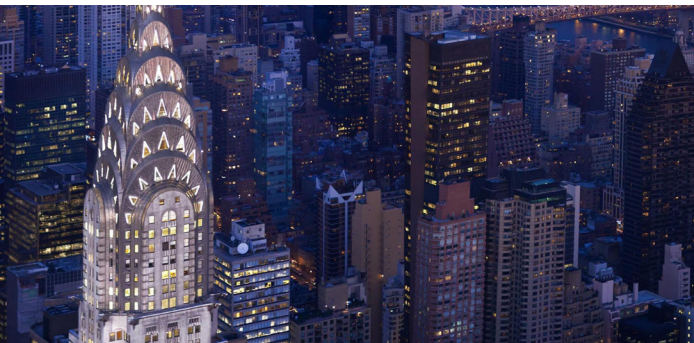


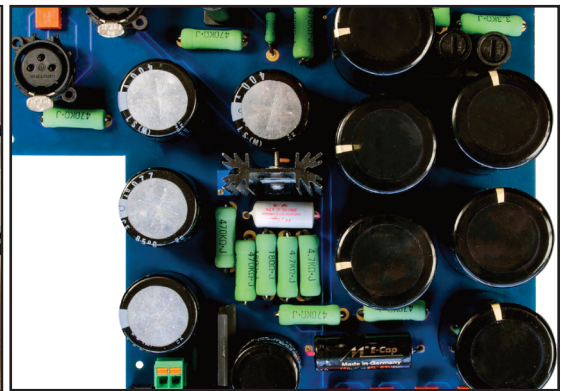
An optional external reserve power supply is available for this amplifier. It is connected by two ultra high quality ten wire cables with shielded chrome and cadmium metal alloy ten pins circular locking military connectors. It literally triple the power reserve of the Boson and bring even thighter bass and deeper silence.

Quality control



Each printed circuit board is subjected to rigorous automated testing after welding its components using specific computerized analyzers. The equipment is then tested for endurance and stability for twenty-four hour at full power under the eye of a 64-channel M300 Acquisition Center. An Audio Precision analyzer is used to prove that each amplifier reproduces complex musical signals according to ultra-high restrictive standards that we have selected and the most rigorous in the industry. Of course we also listen to each Boson in a reference system. Each step of the assembly and qualitative process is documented and signed by the various stakeholders in a certificate to the owner located in the hardcover user manual.





QUARK 208W STEREOGRAPHIC INTEGRATED AMPLIFIER

Brand	Eon Art	Operating mode	Integrated Amplifier, home cinema, Home Cinema
Model	Quark	Home Cinema	Direct (preamp bypass) + Volume, preamp only
Type	Integrated mono amplifier	Environmental responsibility	All-component replacement modules and 5 year calendar with the use of a circuit board holding the wearable components.
Class	A+D	Repair Index	8/10 -Specialist required
Buffer Stage	Audiophiles discrete AOP & regulators	Life Cycle	50 years when Recommended Schedule is adhered to.
Gain	40.117 dB	Warranty	Full product 10 YEARS -Full product
Rated Power (1kHz, 120 VAC)	4Ω 333 Wrms, 8Ω 208 Wrms	Wearables components board	5 YEAR's Recommended schedule provided
S/N ratio reference to rated output	91.153 dB	Inputs	4 x WBT RCA stereo
Frequency response 20 Hz -20 kHz	0.853 dB	External power supply support	Double (2) shielded chrome and cadmium metal alloy 10 pins circular locking military connectors for a RESERVE external power supply
THD +N @250 W RMS	0.3498%	Outputs	Pre-out on 2 WBT RCA and four WBT loudspeaker posts
Input sensitivity	1 Vrms	Low lightmode	Always ON / 10 sec-delay front only or back and front
Preamp input impedance	41 kΩ	Qty of printed circuit boards	Eight (8x)
Amplifier output impedance	11m Ω<1kHz, 35m Ω<20kHz	Board thickness	2.5 mm (twice the industry standard)
Damping factor (8Ω)	>720	Qty of layers	Ten (10x)
Amplifier current limit	20 A	Board colour	Reflective blue
Efficiency (amp only)	92%	Thickness of copper track	70 micron copper for each layer
Efficiency (amp+preamp)	90.33%	Auxiliary supply filter	Medical grade, IEC60601-1
Volume Controller	Analogical transistors switching ultra-low distortion medical Thin Film resistors network, independent circuit with low resistance military locking connector. Available in two version: Low ouput on the first 10 pos Medium ouput on the first 10 pos	Microprocessors	Three (3), 1x control, 2x sound parameters
Distortion, volume controller,min.level	0.37%	Internal network	I2C, 100 kbit/s
Distortion, volume controller,max.level	0.052%	Shielding	Faraday cage in sensible zones and Antistatic windings on transformers
Pre-amp tubes (4x)	Recommended E88CC JJTESLA (6922 / 6H23N-EB)	Signal capacitors	Amtrans, Audyn, Clarity, Duelund, Solen
Power supply tubes (5x)	Recommended JJTESLA 1x 5AR4 / GZ34, 1x 12AX7, 2x 6V6G, 1x 0B2	Amplifier capacitive reserve	Mainly Mundorf >194,293µF
Soft-start & Pre-heat	5 minutes minimum / 24 hours optimum	Internal cabling	Tin plated OFC Supra Ply and Eff, High Voltage and temperature silicon insulated tin plated OFC, Supra Lorad 3 x 1.5 mm tin plated OFC
Remote turn-on & control	Infrared and Bluetooth via EonArt API for iOS et Android, Linux	Audio Connectors	WBT Cu Nextgen, Neutrik heat resistant XLR
Cooling	Natural convection	Casing	Brushed aluminium -7 mm alloy chassis with quick access rail system; Faraday cage effect, white enamelled 19 mm solid front panel
Protection mechanisms		Access	RAL color available in option
Thermal Excess	Built-in automatic shutoff	Security	Front access drawer-motion access
Over current from internal source	Built-in automatic shutoff	Base	Rear lock with key
Over voltage from internal source	Built-in automatic shutoff		7 mm Brushed aluminium alloy on 20 mm Labradorite semi-precious stone; Soundcare feet. Microphonic vibration neutralizer
Fuses	(10) 2 main, 8 internals		
Self-diagnosis	Bluetooth, LED's, microprocessors		
Power supplies	Total of 13		
DC power supplies	10 of which 4 of Kelvin type regulations in discrete components		
AC filament power supplies	3		
Transformers	15 secondary windings in 3 transformers for a total of 840 VA in steel and mu-metal internal casing		
Maximum power consumption	840 W		
Inrush power consumption	2.23 A / 274 W		
Softstart	Yes		
Idle power consumption	2.46 W		
Supply voltage factory set	Americas, Europe, others		
AC mains input	IEC with a two (2) meters Supra Lorad		
Weight (per unit)	83.2 lbs / 37.74 kg		
Dimensions (W x H x D)	438 mm x 435 mm x 320 mm		
		Assembly	Handmade in Canada by Eon Art
		Casing assembly	Handmade finish and assembly by Oracle Audio Technologies
		Packaging	Pelican Protector 673 x 673 x 641mm
		Quality control	Five-level procedure
		Product certification	Audio Precision and Rigol analysers
		Musical quality	Listening session for each product
		Documentation	Documented and signed by the various stakeholders in a certificate to the owner located in a hardcover user manual.
		Availability	50 units per year, numbered edition

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