



EON ART

# QUARK

INTEGRATED AMPLIFIER



208 W rms (8  $\Omega$ ) in TYPE A+D

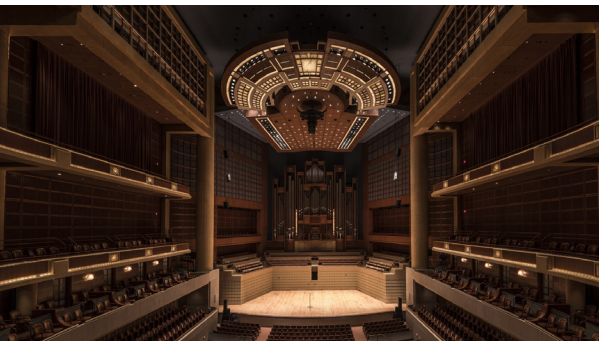
## The Quark Integrated Amplifier

Our solution is unique. First, it offers the best of what transistors and tubes can mutually offer which means warmth, neutrality and power. Second, the Integrated Quark has a modular card for all the usable components of the system making it the first ecologically-minded HiFi system in the world. Finally, it offers the best warranty in the industry.

The Quark is a system that is scalable to all existing listening room configurations and offers full control to the user. The front panel controls are supplemented by remote control and software application.

Music can be defined as emotions through sound. These emotions should be immediate and pure and the recognition of the smallest detail in the track should come naturally. This is what the Eon Art Quark amplifier is all about.

We can effectively create emotions through music as we master the elements that create sound. We truly hope this rare jewel of precision will add to your lifestyle.







## About EON Art



Eon Art and the Quark are the product and creation of Mr Stephane Hautcoeur. The research and development was started in 2008 in France and followed through in Quebec, Canada. The conclusion of nine years of research was the Quark 208W Integrated Amplifier in 2018.

Eon Art Canada Inc is the merger of Eon Art Haute Fidélité of Canada and Venus Acoustic of France, a company founded by Nicolas Dutrieux, highly specialized in sound geometrics in the production of HiFi tall speakers. The company is currently based in Chandler, QC, Canada and in partnership with a marine electronics integration company, Ocean Marine.

Eon Art amplifiers only uses proven, tested technologies in its systems, including some from the medical and jet fighter worlds. Our circuit boards are constantly being reviewed by computer simulation, our systems analysed with Audio Precision and each unit is tested in our listening room before final inspections and commissioning.





**Front view.** A simple yet sleek design inspired from the Lady M Superyacht. Assembly and finish by Oracle Audio Technologies.



**3/4 view.** A 7 mm aluminium chassis on a Labradorite semi-precious slab base adorned with a 15 mm solid front panel.



**Top view.** A high gloss solid aluminium plate finish, protecting from the majority of electromagnetic waves.



**Rear view.** The lock secures the rail system. A modular section allows for optional connections.

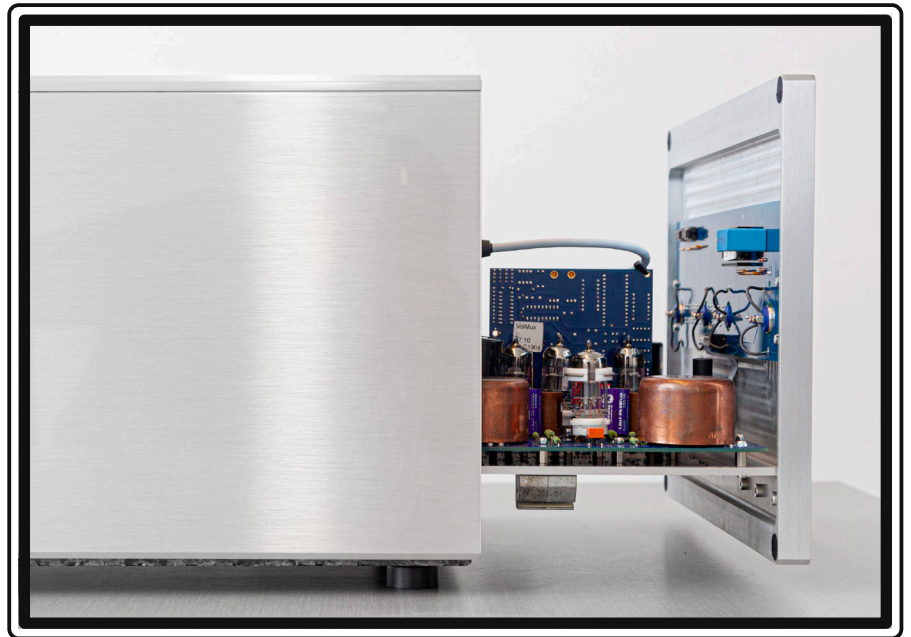




The only A+D High End amplifier in the world.

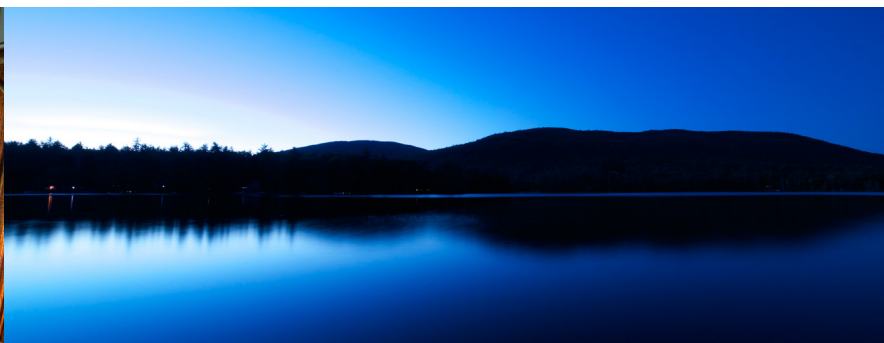
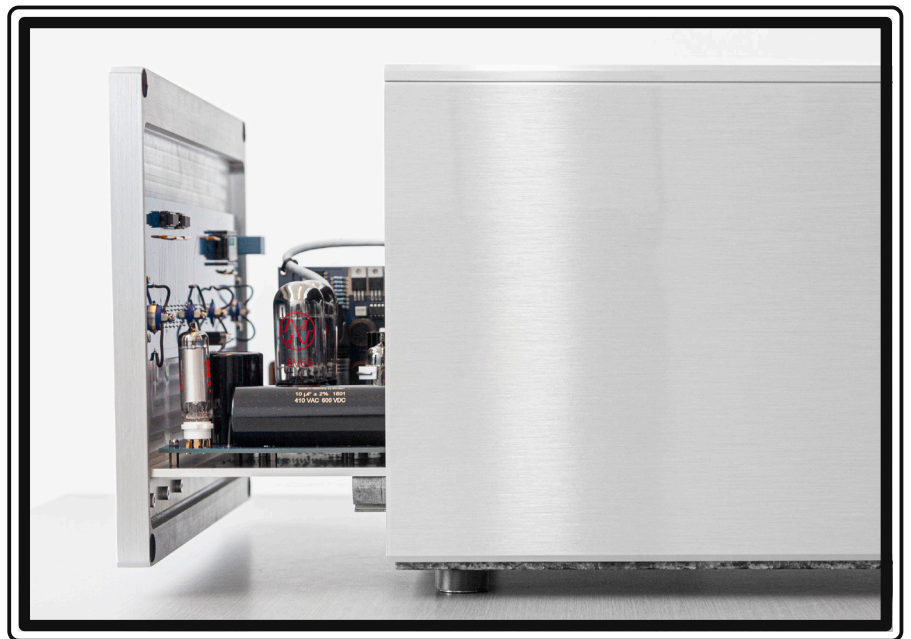
Experience unique musical emotions through a masterpiece of computer science. Ample power at all ranges with a warm and soft, transparent output.

Not only is this amplifier unique, it is revolutionary from a durability and environmental standpoint. It has one of the longest warranty in its class, and the team to support it.



First class design.

Sliding out the carrier on the rail system, you immediately notice a new type of amplifier. Something made with expertise that is meant to make music and not just push sound. The components are all carefully selected and tested to re-create the same experience you would live at the time of recording. Finish by Oracle Audio Tech..



## Neutrality

Capacitors used on the path of the audio signal are all audiophile-quality and bear the marks of suppliers of the likes of Amtrans, Clarity, Duelund and Mundorf. Those used in the most sensitive places are shielded. We have ensured that their quantity is adjusted to make no phase rotation and to use multiple complementary models with a different sound signature so as 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

Starting in 2018, Eon Art Canada is the only amplifier design firm that has succeeded in producing an architecture that is optimized for its selected components. Computer simulation assisted design allows us to optimize the value and choice of components. This results in a sound tube, that is to say with details, image, and emotions without being limited to high efficiency loudspeakers that would otherwise be needed. The available power of the Quark is one of its unique assets making it ideal for tallspeakers that are known to have a difficult behaviour.



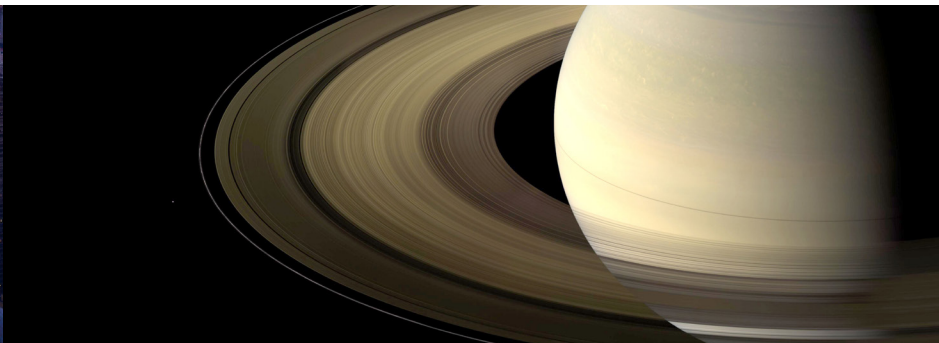
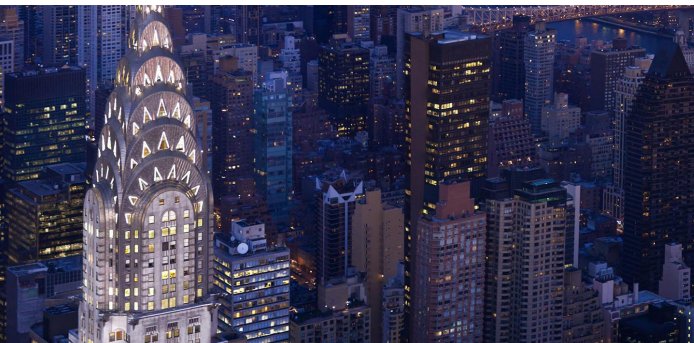


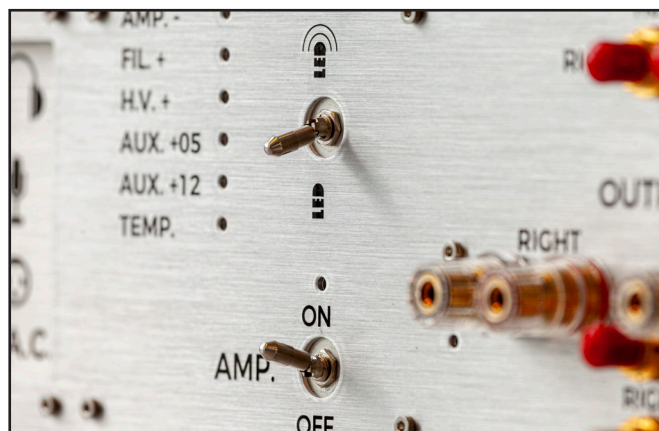
### Volume control ultra low distortion

The volume intensity of the amplifier is controlled by a set of thin metal film resistors that are high stability, high precision and medical grade selected by transistors. The complete absence of relay and mechanical potentiometer, as well as the circuit topology, guarantees a lower rate of distortion than almost all of the competitor volume controllers, all without any mechanical wear.

### Quality Control

After its components are soldered each circuit board undergoes rigorous automated testing using specific computer analyzers. The devices are then tested for endurance and stability for twenty-four hours at full power under the eye of a 64-channel M300 acquisition core. An Audio Precision Analyzer is used to prove that each amplifier reproduces complex musical signals according to the specific performance points we have selected and the most rigorous standards in the industry. Both the steps of the assembly and the qualitative process are documented and signed off by the various stakeholders on a certificate to that will be supplied to the owner as a reference.





## QUARK - 208W INTEGRATED AMPLIFIER

Brand Name	Eon Art Quark	Operating mode	Integrated Amplifier, Pre-amplifier, Amplifier, Home Cinema, Optional mode
Type	Stereo Integrated Amplifier	Home Cinema	Direct + Volume
Class(es)	Class A+D / vs-vp - ad	Environmental responsibility	All-component replacement modules and 5 year calendar with the use of a circuit board holding the wearable components.
Buffer stage	Audiophile Discrete AOP & Regulator	Repair Index	8/10 - Specialist required
Voltage Gain	40,117 dB	Life Cycle	50 years when Recommended schedule is adhered to.
Rated Power (1kHz, 120 VAC)	4 Ω 332 W rms, 8 Ω 208 W rms	Component warranty	10 YEARS - Full product
S/N Ratio reference to rated output	91.153 dB	Wearables	Recommended schedule provided
Frequency response 20 Hz - 20 kHz	0.853 dB	Input(s)	4 x RCA Stereo
THD + N @ 208 W rms:	0.3494%	Optional Input Module(s)	RCA, XLR, Phono MM, DAC
Input sensitivity	1 V rms	Low light mode	Always ON / 10 sec-delay
Preamp Input impedance	41 kΩ	Number of printed circuit boards	Eight (8 x)
Preamp Direct Mode Input impedance	2.28 kΩ	Board thickness	2.5 mm (twice the industry standard)
Preamp Output impedance	129 Ω	Board number of layers	Eight (8 x)
Amplifier Output Impedance	11 mΩ f < 1kHz, 35 mΩ f < 20kHz	Board colour	Reflective blue
Damping factor	> 400	Thickness of copper track	70 micron copper for each layer
Amplifier current limit	20 A	Auxiliary supply filter	Medical grade, IEC60601-1
Efficiency (amp only)	92%	Microprocessor(s)	Three (3), 1x control, 2x sound parameters
Efficiency (amp+preamp)	90.33%	Internal network	I2C
Volume Controller	Transistors switching ultra-low distortion resistor network	Shielding	Faraday cage in sensible zone and antistatic windings on transformers
Distortion, volume controller, min. level	0.37%	Signal capacitor	Amtrans, Audio Note, Clarity, Duellund
Distortion, volume controller, max. level	0.052%	Amplifier capacitive reserve	Mundorf > 194,293 μF
Pre-amp tubes (4x)	Recommended JJ TESLA E88CC (6922/ 6H23N-EB)	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
Power supply tubes (5x)	1x 5AR4 / GZ34, 1 x 12AX7, 2 x 6V6G, 1 x 0B2	Audio Connectors	Supra, Neutrik
Soft start & Pre-heat	5 mins. minimum / 30 mins. optimum	Casing	Brushed aluminium - 7 mm alloy chassis with quick access rail system; 15 mm solid front panel; Faraday-cage effect
Remote turn on & control	Bluetooth, RF + WiFi via EonArt API, iOS and Android, Linux, Win.	Access	Front access drawer-motion access
Cooling	Natural convection	Security	Rear lock with key
Fuses	10	Base	7 mm Brushed aluminium alloy on Labradorite semiprecious stone; Microphonic vibration neutralizer
Protection mechanisms		Assembly	Handmade in Canada
Thermal Excess	Built-in automatic shutoff	Casing assembly	Finish and assembly by Oracle Audio Technologies
Over current from internal source	Built-in automatic shutoff	Quality Control	Five-level procedure
Over voltage from internal source	Built-in automatic shutoff	Product Certification	Audio Precision analyser
Fuses	2 main, 8 internals	Sound Quality	Listening session for each product
Selfdiagnosis	Bluetooth, LED's, microprocessors	Availability	50 x units per year, numbered edition
Maximum power consumption	840 W		
Transformers	15 secondary windings in three independent units for a total of 840 VA		
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 Supra power cables		
Weight (per unit)	83.2 lbs / 37.74 kg		
Dimensions (W x H x D)	438 mm x 435 mm x 320 mm		

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