

# MONO STEREO

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High End Munich 2019

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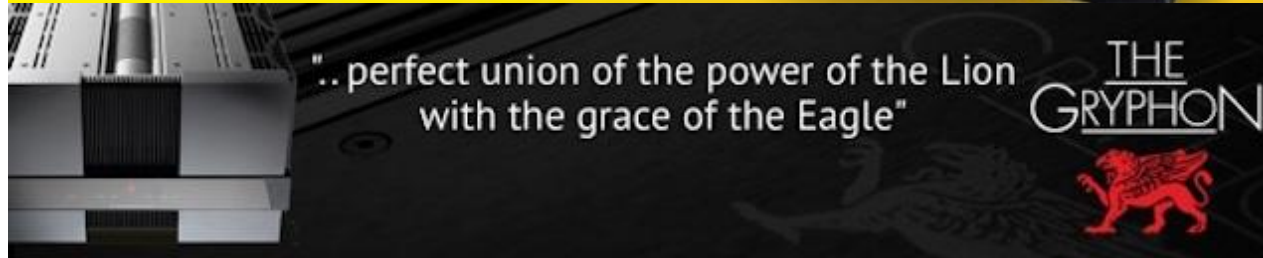
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## New Eon Art Quark integrated amplifier!



Eon Art Quark (\$ 28,999 USD) is very interesting new integrated amplifier. Eon Art uses a true scientific method to design its acoustic amplifiers, converters and enclosures with a help of a custom computer for our unique optimization process, that is two hundred times more powerful than the majority of personal computers. It contains 800 cores, some of which vectorials are dedicated to artificial intelligence. "This new tool enhances our audio electronics laboratory, the largest in Canada, and allows us to manufacture high-performance products far beyond what can be achieved using traditional methods."

"Our solution is unique. First, it offers the best of what transistors and tubes can mutually offer which means warmth 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 new emotions through music as we master the elements that create sound. We truly hope this rare jewel of precision will add to your lifestyle.



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.

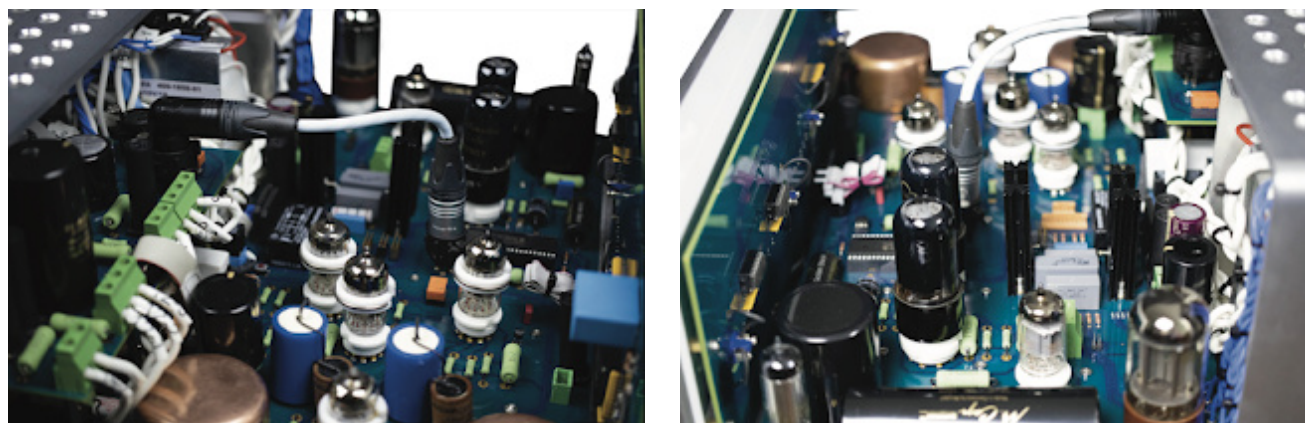
Eon Art Canada Inc is the merger of Eon Art Haute Fidélité of Canada and Venus Acoustic of France, a company founded by Nicolas Dutrieux, highly specialized in sound geometrics in the production of HiFi tall speakers. The company is currently based in Chandler, QC, Canada and in partnership with a marine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

### **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 output.

Not only is this amplifier unique, it is revolutionary from a durability and environmental standpoint. It has 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

## 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, Lefson and Mundorf. Those used in the most sensitive places are armored. 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.



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 output 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.

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 center. An Audio Accuracy Analyzer is used to prove that each amplifier reproduces complex musical signals according to the ultra-restrictions 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."

Brand	Eon Art	Operating mode	Integrated Amplifier, Pre-amplifier, Amplifier, Home Cinema, Optional mode Direct + Volume
Name	Quark	Home Cinema	Direct + Volume
Type	Stereo Integrated Amplifier	Environmental responsibility	All-component replacement modules and calendar with the use of a specific circuit board holding the wearable components.
Class(es)	Class A+D / vsvp - ad	Repair Index	8/10 - Specialist required
Buffer stage	Audiophile Discrete AOP & Regulator	Life Cycle	50 years when Recommended schedule is adhered to.
Voltage Gain	40,117 dB	Component warranty	10 YEARS - Full product
Rated Power	1kHz, 120 VAC, 4 Ω 332 W, 8 Ω 208 W	Wearables	Recommended schedule provided
S/N Ratio reference to rated output	91.153 dB	Input(s)	4 x RCA Stereo
Frequency response 20 Hz - 20 kHz	0.853 dB	Optional Input Module(s)	RCA, XLR, Phono MM, DAC
THD + N @ 208 W	0.3494%	Low light mode	Always ON / 10 sec delay
Input sensitivity	1 V RMS	Number of printed circuit boards	Eight (8 x)
Preamp Input Impedance	41 kΩ	Board thickness	2.5 mm (twice the industry standard)
Preamp Direct Mode Input Impedance	2.28 kΩ	Board number of layers	Six (6 x)
Preamp Output Impedance	129 Ω	Board colour	Green, red, yellow, black, purple
Amplifier Output Impedance	11m Ω f < 1kHz, 35m Ω f < 20kHz	Thickness of copper track	70 micron copper for each layer
Damping factor	> 400	Auxiliary supply filter	Medical grade, IEC60601-1
Amplifier current limit	20 A	Microprocessor(s)	Three (3), 1x control, 2x sound parameters
Efficiency (amp only)	92%	Internal network	12C
Efficiency (amp+preamp)	90.33%	Shielding	Faraday cage in sensible zone and antistatic windings on transformers
Volume Controller	Analog transistors switching ultra-low distortion resistor network	Signal capacitor	Amtrans, Audio Note, Clarity, Bluebird, Mundorf > 177,195 µF
Distortion, volume controller, min. level	0.37%	Amplifier capacitive reserve	Tin plated OFC Supra Ply and Eff, High voltage and temperature silicon insulated tin plated OFC, Supra Lorad 3 x 2.5 mm tin plated OFC
Distortion, volume controller, max. level	0.052%	Internal cabling	Supra, Neutrik
Pre-amp tubes (4x)	Recommended TESLA E88CC (6922 / 6H23NEB)	Audio Connectors	Supra, Neutrik
Power supply tubes (5x)	1 x 5AR4, 1 x 12AX7, 2 x 6V6G, 1 x 6B2	Casing	Brushed aluminium - 5 mm alloy chassis with quick access rail system; 15 mm solid front wall, Faraday cage effect
Soft start & Pre-heat	OB2	Access Security	Front access drawer-motion access
Remote turn on & control	5 minutes	Base	Rear lock with key 5 mm Brushed aluminium alloy on Labradorite semi-precious stone; Microphonic vibration neutralizer
	RF + WiFi via EonArt APL IOS and Android, Linux, Win.	Assembly	Handmade in Canada
Cooling	Natural convection	Quality Control	Five level procedure
Fuses	9	Product Certification	Audio Precision analyser
Protection mechanisms		Sound Quality	Listening session for each product
Thermal Excess	Built-in automatic shutoff		
Over current from internal source	Built-in automatic shutoff		
Over voltage from internal source	Built-in automatic shutoff		
Fuses	1 main, 8 internals		
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)	435 mm x 417 mm x 234 mm		

