



Precision Audio Equipment




CANOR

ACCURATE BALANCED ATTENUATOR
CMT™ TECHNOLOGY EMPLOYED

Sanrio Interconnect USA



We have been developing and manufacturing high-end audio products for almost 30 years. CANOR is a tube specialist, the prototype of our first serially produced TP101 integrated tube amplifier was presented at the tradeshow in Brno (Czech Republic) in April 1995.

The major objective of CANOR is the development and manufacture of high performance audio components combined with high comfort and aesthetics. All tubes are being strictly selected and measured on our specially developed and unique measuring devices. We use the highest quality tubes only. The quality of each product is ultimately controlled on state-of-the-art Audio Precision analog test equipment and all products are subject to listening tests after having been burned-in.

All technological processes in production lead to the only aim, to manufacture highquality and reliable products.

Hyperion P1

Vacuum Tube Preamplifier

Hyperion P1 is a brand new vacuum tube preamplifier of pure A-class with zero feedback designed and produced by CANOR. It is considered a reference preamplifier of the CANOR brand.



Color variants



Highlights

01 Solid aluminium chassis
- overall robustness and
elimination of vibrations

02 Zero global feedback -
results in the sound that is
more musical and realistic
in numerous aspect

03 Perfect filtration solution
- specially designed power
transformer

Main Features

- The attenuator is located in the special aluminium box (10 mm thick walls) what provides perfect shielding and thanks to the special design it also absorbs the vibrations.
- The Hyperion P1 is a Class-A preamplifier and was designed to avoid ANY global feedback.
- The attenuator as well as the electronic part are installed on anti-vibration pads (columns) which contributes to the overall elimination of vibrations.
- The analogue part is separated from the power part by a solid aluminium wall (10 mm thick) which contributes to the elimination of interference.
- The attenuator control is galvanically separated via optical drivers.

Technical Specification

Gain (XLR OUT)	11 dB
Output Impedance	< 150 Ω
Frequency response	10 - 80 000 Hz \pm 0,1 dB
Input impedance	30 k Ω
Inputs	4x XLR, 5x RCA (1x preout)
Total Harmonic Distortion	< 0,005% (1 kHz, 2 V RMS) XLR < 0,1 % (1 kHz, 40 V RMS) XLR
Channel separation	> 110 dB
Signal-to-noise ratio	> 115 dB (20 Hz - 80 kHz)
Tube complement	4x 6922, 2x 6H30PI
Power	230 V / 50-60 Hz
Dimensions (w x h x d)	450 x 190 x 465 mm
Weight (net)	35 kg

Virtus M1

Vacuum Tube Power Amplifier

Virtus M1 is a brand new vacuum tube power amplifier of pure A-class designed and produced by CANOR. It is considered a reference power amplifier of the CANOR brand.



Color variants



Highlights

01 Solid aluminium chassis - overall robustness and elimination of vibrations

02 Supersymmetric design - eliminates interfering signals

03 Extremely low harmonic distortion - one of the best ever seen in tube amps

Main Features

- Harmonic distortion - 0,0028 % at 1 W; 0,011 % at 5 W and 0,13 % at 50 W is achieved by harmonizing all circuits and components.
- The transformer core is vacuum impregnated, and the entire transformer is encapsulated in a special anti-vibration compound. In addition, the massive, welded cover in which the transformer is located creates effective electromagnetic shielding and contributes significantly to the excellent signal-to-hum distance. The additional capacitor at the input improves the dynamic of the anode voltage filtration.
- The filtration capacity is 3.900 mF / 550 V. A choke, that is placed under welded cover, has been used to eliminate anode voltage ripple, which increases the filtering efficiency of the 100 Hz component of the anode voltage.
- The output permalloy transformers specially designed for the power amplifier.
- Only high-quality polypropylene capacitors are used in the signal path.
- The conductors on the signal paths consist of slow drawn oxygen-free copper, which is coated with pure silver.
- Instant switching between feedback and zero feedback.

Technical Specification

Output power	1x 110 W / 8 Ω – ultra linear (THD < 3%) 1x 55 W / 4,8 Ω – triode (THD < 3%)
Gain	24 dB / 4 Ω
Frequency range	10 – 50.000 Hz ± 0,5 dB / 5 W
Input impedance	200 kΩ
Inputs	1x XLR
Total Harmonic Distortion	< 0,05% (1 kHz, 5 W / 8 Ω - ultra linear) < 0,005% (1 kHz, 1 W / 8 Ω - ultra linear)
Signal-to-noise ratio	> 103 dB (20 Hz - 80 kHz)
Tube complement	4x KT150, 2x ECC82, 1x 12AX7
Power	230 V / 50-60 Hz
Dimensions (w x h x d)	450 x 190 x 465 mm
Weight (net)	40 kg

AI 1.10

Integrated Tube Amplifier

CANOR AI 1.10 is an integrated tube amplifier with entirely new topology equipped with KT88 high-power tubes. The aim of the development was to merge the best sound characteristics of previous models together. The amplifier operates in a pure class A with an autobias function, and with a cathode feedback.



Color variants



Highlights

01 Operates in a pure class A with an auto-bias

02 Instant switching between a triode and ultra-linear mode

03 Possibility to create a monoblock connection of 2 units

Main Features

- an integrated tube amplifier in class A with an output power of 2x 40 W
- KT88 high-power tubes with autobias with a cathode feedback
- an option to immediately switch between triode and ultralinear mode
- PCB's utilize our premium CMT™ technology
- perfect separation of channels by using a relay attenuator / standalone blocks for each channel / gain control by 1 dB and maximum attenuation of 63 dB
- independently powered control part
- filter capacitors with high capacitance deliver energy to accurate and tight basses
- we only use high-quality polypropylene capacitors in the signal path
- absolute selection and tubes matching with above-average parameters
- an option of synchronous control enables the use of two amplifiers in a monoblock mode without the need of using an extra preamplifier and that is a Master/Slave mode with an output power of 80 W per channel

Technical Specification

Output power	2x 20 W / 4 , 8 Ω - triode 2x 40 W / 4 , 8 Ω - ultralinear
Input sensitivity	500 mV
Frequency range	(10 – 50 000) Hz ± 0,5 dB / 5 W
Input impedance	30 kΩ
Inputs	5
Total Harmonic Distortion	< 0,05 % / 1 kHz, 5 W
Signal-to-noise ratio	> 95 dB
Tube complement	4x KT88 / 1x 12AX7 / 2x 12AT7
Power	230 V / 50 Hz / 375 VA
Dimensions (W x H x D)	435 x 170 x 485 mm
Weight (net)	26 kg

AI 1.20

Integrated Solid-state Amplifier

CANOR AI 1.20 is an integrated solid-state amplifier in pure class A up to 50 W per channel with a relay attenuator with two standalone blocks for each channel.



Color variants



Highlights

01 Operates in a pure class A

02 264 000 uF of filtering capacitance

03 Possibility to create a monoblock connection of 2 units

Main Features

- an integrated solid-state amplifier in pure class A up to 50 W per channel
- a relay attenuator with two standalone blocks for each channel
- PCB's utilize our premium CMT™ technology (CANOR® PCB Milling Technology), it is the way we mill printed circuit boards
- CMT™ technology originated in a long-standing endeavour to improve the sonic performance of our products
- power supply units with filtered out interfering signals from the mains supply
- interference-rejection and as small as possible leakage field ensure custom-wound toroidal transformers
- 264 000 uF of filtering capacitance simulates nearly stabilized supply voltage
- an option of synchronous control enables the use of two amplifiers in a monoblock mode without the need of using an extra preamplifier and that is a Master/Slave mode with an output power of 100W per channel

Technical Specification

Output power	2x 50 W / 4 Ω 2x 30 W / 8 Ω
Input sensitivity	290 mV
Frequency range	(20 – 25 000) Hz ± 0,5 dB / 5 W
Input impedance	30 kΩ
Inputs	5
Total Harmonic Distortion	< 0,0009 % / 1 kHz, 5 W
Signal-to-noise ratio	90 dB
Power	230 V / 50 Hz / 420 VA
Dimensions (W x H x D)	435 x 170 x 485 mm
Weight (net)	28 kg

AI 2.10

Integrated Hybrid Amplifier

CANOR AI 2.10 is a hybrid integrated amplifier with an output power of 2x 150 W / 4 Ω.



Color variants



Highlights

01 A hybrid integrated amp powered by a filtered and tuned linear power supply

02 The input transformer (toroid) is oversized which leads to the low noise

03 XLR inputs with a strictly symmetrical signal up to the power amplifier part (the whole path is symmetrical)

Main Features

- a hybrid integrated amplifier with an output power of 2x 150 W / 4 Ω
- a tube preamplifier on the input fitted with a precise relay attenuator
- a power amplifier in class D powered by a filtered and tuned linear power supply
- PCB's utilize our premium CMT™ technology
- XLR inputs with a strictly symmetrical signal up to the power amplifier
- the preamplifier part of AI 2.10 consists of a pair of selected tubes 6922

Technical Specification

Output power	2x 150 W / 4 Ω
Input sensitivity	400 mV / 150 W / 1 kHz
Frequency range	(20 – 20 000) Hz ± 0,3 dB / 5 W
Input impedance	30 kΩ
Inputs	4x RCA, 2x XLR
Total Harmonic Distortion	< 0,02 % / 1 kHz, 5 W
Signal-to-noise ratio	95 dB
Tube complement	2x 6922
Power	230 V / 50 Hz / 460 VA
Dimensions (W x H x D)	435 x 120 x 405 mm
Weight (net)	15 kg

CD 1.10

Tube Compact Disc player / DA converter

CANOR CD 1.10 compact disc player
is up to the task and offers much more!



Color variants



Highlights

01 It operates also as an high-quality DAC

02 It contains two converters (one for each channel - galvanically separated from the digital part)

03 The input transformer is oversized (low noise)

Main Features

- a tube DA converter / CD player
- a standalone 24-bit / 192kHz DAconverter for each channel
- a high-quality CD drive with compact discs ejection bearing driving mechanism
- PCB's utilize our premium CMT™ technology
- super symmetrical passive filters optimized for highest steepness
- PCM 44.1 kHz - 192 kHz playback and DSD64, 128, 256

Technical Specification

Frequency range	20 – 20 000 Hz ± 0,8 dB
Output impedance	< 100 Ω
Total Harmonic Distortion	< 0,005 % / 1 kHz
Signal-To-Noise Ratio	> 102 dB (20 Hz – 20 kHz)
Outputs	RCA / XLR
Analogue output voltage RCA / XLR	2,5 V RMS / 5 V RMS
Digital inputs	USB, Optical and Coax
Digital outputs	Optical and Coaxial
Tube complement	2x 12AX7 / 2x 6922 / 1x 6CA4
Power	230 V / 50 Hz / 100 VA
Dimensions (W x H x D)	435 x 170 x 420 mm
Weight (net)	15 kg

CD 2.10

Tube Compact Disc player / DA converter

CANOR CD 2.10 is a tube DA converter / CD player utilizing AK4490 32-bit DA converter.



Color variants



Highlights

01 It operates also as a high-quality DAC

02 Analogue and digital parts are strictly separated and independently powered

03 Super symmetrical passive filters optimized for the highest steepness

Main Features

- a tube DA converter/CD player utilizing AK4490 32-bit DA converter
- a silent slot-in CD drive mechanism
- PCB's utilize our premium CMT™ technology
- analog signal is being processed by strictly symmetrical tube circuits
- coaxial input separated by a high-frequency transformer
- super symmetrical passive filters optimized for highest steepness

Technical Specification

Frequency range	20 – 20 000 Hz ± 0,8 dB
Output impedance	< 150 Ω
Total Harmonic Distortion	< 0,005 % / 1 kHz
Signal-To-Noise Ratio	> 102 dB (20 Hz – 20 kHz)
Outputs	RCA / XLR
Analogue output voltage RCA / XLR	2V RMS / 4V RMS
Digital inputs	USB, Optical and Coax
Digital outputs	Optical and Coaxial
Tube complement	4x 6922
Power	230 V / 50 Hz / 100 VA
Dimensions (W x H x D)	435 x 120 x 405 mm
Weight (net)	12 kg

DAC 2.10

D/A converter with analogue tube-based output

CANOR DAC 2.10 uses the dual mono configuration of the ES9038Q2M digital-to-analogue converters from ESS Saber, which ensure high sound quality.



Color variants



Highlights

01 Dual mono configuration of digital to analogue converters from ESS Sabre

02 The consistently symmetrical signal path

03 The output part is analogue (tube-based)

Main Features

- Thanks to used converters, it is possible to play files in PCM formats up to a sampling frequency of 768 kHz and for DSD format up to Native DSD512 via the USB input, thus covering most digital files that you can normally play, buy or stream.
- It uses the dual mono configuration of the ES9038Q2M digital-to-analogue converters from ESS Sabre, which ensure high sound quality.
- The analogue output is a buffer, which is solved by a high-quality electronic connection
- Dual converter wiring uses separate signal paths for the left and right channels.
- There are seven digital converter filters for PCM format and one proprietary for MQA format, which is set automatically during MQA playback.
- The last (eighth) item in the digital filter menu “Oversampling Bypass” can be selected. But it’s not a digital filter, as it’s turning off digital filtering for the ability to compare audio without filtering...
- The signal from the digital inputs is processed by a powerful multi-core XMOS microcontroller with an advanced Multi-Core RISC architecture.

Technical Specification

Frequency Response at Fs=192kHz	-/+ 0,03 dB at 20 Hz to 20 kHz
Output impedance	< 200 Ω
THD+N 1kHz at 0dBFS	> 0.008 %
THD+N 1kHz at -6dBFS	> 0.004 %
XLR output voltage at 0dBFS	4 V RMS
XLR: SNR 20 Hz to 20 kHz at 0 dBFS	< 108 dB
RCA output voltage at 0dBFS	2 V RMS
RCA: SNR 20 Hz to 20 kHz at 0 dBFS	< 95 dB
Analogue balanced output	2x XLR connector
Analogue unbalanced output	2x RCA connector
USB data transfer	Asynchronous USB 2.0 Audio Class 2 standard
Supported PCM sampling rates	44,1k / 48k / 88,2k / 96k / 176,4k / 192k / 352,8k / 384k / 705,6k / 768kHz
DSD over PCM support	DoP DSD 64/128/256
DSD Native support	Native DSD 64/128/256/512
MQA support	Full MQA decoding by hardware from all digital inputs
S/PDIF Optical input	2x (24bit / 192kHz)
S/PDIF Coaxial input	1x (24bit / 192kHz)
AES/EBU intput	1x (24bit / 192kHz balanced)
Digital to Analogue converter	2x ESS9038Q2M (dual mono)
Filter settings	8x Digital Filter
Display	LCD TFT
Tube complement	4x 6922
Power	230 V / 50 Hz / 44 VA
Dimensions (W x H x D)	435 x 120 x 405 mm
Weight	11 kg

PH 1.10

All-tube Phono Preamplifier

CANOR PH 1.10 is an all-tube turntable preamplifier for both MM and MC phono cartridges.



Color variants



Highlights

01 True balanced XLR output. The circuitry of PH 1.10 is a true differential

02 An all-tube turntable preamplifier for both MM and MC phono cartridges

03 Absolute selection and tubes matching with above-average parameters

Main Features

- an all-tube turntable preamplifier for both MM and MC phono cartridges
- nine tubes, one vacuum tube out of them used to rectify anode voltage
- wiring circuitry without any global feedback
- PCB's utilize our premium CMT™ technology
- absolute selection and tubes matching with above-average parameters
- vacuum-impregnated transformer core
- transformer potted in a special anti-vibration compound
- we only use high-quality polypropylene capacitors in the signal path
- if a turntable is fitted with two tonearms, one having MM phono cartridge installed and the other MC, both can be connected simultaneously without mutually affecting each other
- high variability of gain settings, resistances and capacitances settings for all types of phono cartridges
- a high-quality step-up Lundahl transformer for MC phono cartridges

Technical Specification

MM	50, 150, 270, 370, 520, 620, 740, 840 pF / Gain: 46 dB
MC1	10, 20, 40, 80, 150, 300, 600, 1200 Ω / Gain: 70 dB
MC2	2, 5, 10, 20, 40, 80, 150, 300 Ω / Gain: 76 dB
Output impedance	< 250 Ω
Inputs	RCA → MM / RCA → MC
Outputs	RCA / XLR
Total Harmonic Distortion	MM / MC < 0,1 % / 1 VRMS
Subsonic filter	18 dB / Octave
RIAA accuracy	0,3 dB / 20 Hz – 20 kHz
Signal-to-noise ratio MM	≤ 72 dBV (87 dBV – IEC - A)
Signal-to-noise ratio MC	≤ 68 dBV (82 dBV – IEC - A)
Tube complement	8x 6922EH , 1x 6CA4EH
Power	230 V / 50 Hz / 70 VA
Dimensions (W x H x D)	435 x 170 x 485 mm
Weight (net)	17 kg

PH 2.10

All-tube Phono Preamplifier

CANOR PH 2.10 is an all-tube phono preamplifier for MM and MC cartridges. It contains the minimum number of amplification steps required to apply purely passive corrections.



Color variants

Precision Phono Tube Preamplifier PH 2.10

MUTE

DIMM



POWER

MM C

MC R

MC

300R

Highlights

01 Without any global feedback, which results in excellent sound performance

02 It contains the minimum number of amplification steps required to apply purely passive corrections

03 Designed for both MM and MC cartridges with high variability of resistances and capacitances settings

Main Features

- It allows an exceptionally large variability of gain adjustment and selection of the correct values of resistances and capacitances for all types of transmissions.
- The MC cartridges are connected to the preamplifier input using a high-quality Lundahl step-up transformer.
- To remove mechanical hum, the transformer core is vacuum impregnated, and the entire transformer is encapsulated in a special anti-vibration compound.
- The primary and secondary windings of the transformer are separated by a shielding copper foil with a 50 % overlap, which prevents the penetration of interfering voltages from the network.
- The only high-quality polypropylene capacitors are used in the signal path. The RIAA correction is passive and consists only of quality polystyrene and polypropylene capacitors. The output capacitor is also of high quality (polypropylene foil).
- designed without overall feedback. The first and second amplification stages are made up of 12AX7, among which a subsonic filter is put. The third and fourth stages are made up of 12AT7.


Technical Specification


Input impedance MC	10, 20, 40, 80, 150, 300, 600, 1200 Ω
Load capacity MM	50, 150, 270, 370, 520, 620, 740, 840 pF
Output impedance	< 500 Ω
Gain MM	47 dB
Gain MC	71 dB
SNR MM	84 dB
SNR MC	80 dB
THD, MM / MC	< 0,2 % / 1V RMS
RIAA accuracy within	0,3 dB / 20 Hz – 20 kHz
Subsonic filter	18 dB / Octave
Input / Output	RCA
Tube complement	2x 12AX7 , 2x 12AT7WC
Power	230 V / 50 Hz / 50 VA
Dimensions (W x H x D)	435 x 120 x 405 mm
Weight (net)	14 kg



CANOR

CANOR, spol. s r.o., Prešov, Slovakia
Phone: +421 51 77 10 396
E-mail: canor-audio@canor-audio.com

 /canoraudio

 /canor_audio