Introduction by Mario Canever ... the engineer

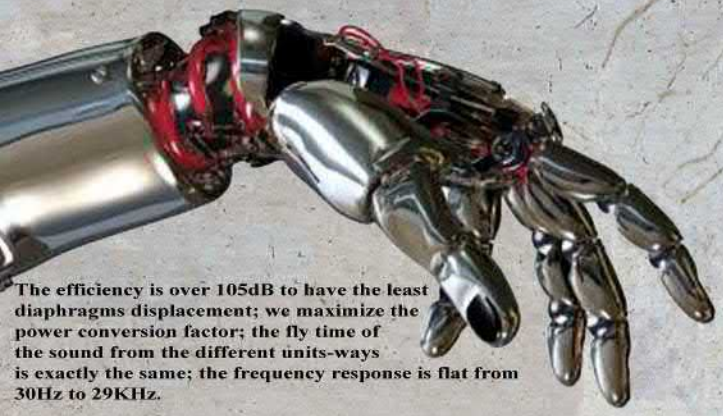
We have always loved music and we have had our best ideas listening to music and could not live without it. For a long time, we've nurtured an ambition to push music reproduction to the absolute limit. We believe that in Corum Audio we will be able to do that.

Our goal is a simple one: build the world's best sound reproduction system. We want to recreate, with absolute fidelity, the artists' performance in your own living room; so that when you close your eyes you can believe you are together in that room.

Perfection is what we want, not a system that 'colours' sound. Purity, in our mind, is the most desirable quality reproduced sound can have.

The distortion of a loudspeaker system is non-linear distortion, frequency response distortion, phase distortion, and time distortion. Usually in a direct radiation system this distortion is over 10% at its high level reproduction sound. More, the power from the amplifier is shared in sound in the range from 0,1% to 5% and 95% to 99.9% of this power heats the voice coil.

So we implemented a horn & waveguide system starting from high efficiency components with a real heart: the speaker management system.



The efficiency is over 105dB to have the least diaphragms displacement; we maximize the power conversion factor; the fly time of the sound from the different units-ways is exactly the same; the frequency response is flat from 30Hz to 29KHz.

Everything is focused on reaching the lowest distortion even if you are listening to a sound program with peaks of 115dB or over, on having the best possible transient response and not losing the image of the reproduction.

We use beryllium diaphragms, paper cones, and solid wood to have the smoothest sound possible without any loss of details.

We use alnico magnets to not lose the micro-details of the sound, always present even if the reproduction sound level is high.

At the end we implemented a passive diffuser based on Schroeder formulas integrated on the back and front of the single elements, so the reflected waves become an important component to create the ambience.

The system is the synthesis of 5 years of prototypes and Computer aided design.

Since the beginning our target has been to give you that feeling of being together with the artists in your living room.

What else?

Introduction by Ivan Romanò ... the sculptor

Since the beginning we in Corum Audio have wanted a sculpture that could share with you an exclusive feeling. We rejected the idea of just a conventional loudspeaker system made of cubes, towers and banal shapes.

Corum Audio, a sculptor and engineer team, cooperate to meld an artistic and technical approach to attain the best sounding and looking system.

Place the system in your living room, in your conference hall or wherever, it must be an your absolute pleasure, your own secret smile.

The system will be the statement of your life style,

Our goal is a simple one: to fascinate you. You will be surprised with your eyes and your ears ... we want to generate an emotion that enthrals both you and your friends.

Nothing is left to chance, all the details are important; right from the start we select the wood, we soak and slowly dry the raw wood, we saw and joint slice by slice completely manually, matching the veins. We follow the carving process carefully step by step and finally the system is hand carved, polished and waxed by the expert hands of the sculptor. It takes at least six months for these sculptures to be created by sculptor's hands.
Corum Audio proposes a sculpture and not only a speaker system, truly hand made in Italy, truly a work of art.

Where you put the system will no longer be the issue it will probably be in the most important room of your home.

Every system is unique a real limited edition.

You can choose from Italian walnut, rosewood, lime, oak, your choice. We can carve the limited edition sculpture to meet your requirements.
Unlike any other.
An exclusive sculpture & sound reproduction system.

The name. Short, simple, important:

Sinatra
SYSTEM

Voice, sound, rhythm, evocative atmosphere, Italian style, Italian design, 100% made in Italy, art.... Sinatra System: no better name to represent the Corum Audio proposal.

What else?

Creation of Adamo - Sistine Chapel Ceiling - Rome

PROCESSOR & PREAMPLIFIER

KERNEL
DSP 2x paralleled SHARK™ 96KHz/24bit (optional 192KHz/40bit floating point) always working at the maximum resolution
Clock ultralow jitter 24.576 MHz - precision 0,1 ppm
A/D/A Sample rate 96 KHz/24 bit (optional 192KHz/24bit)
Signal delay less than 1ms, A/D and D/A
Frequency Response +0/-0.1dB, 7Hz to 32KHz
Dynamic Range 110dB unweighted, A/D and D/A
THD + Noise less than 0,001% 20Hz to 20KHz unweighted

Power Supply
• Pure Analogue - separated for the analogue, digital and clock paths
• 5 separated transformers: R type for the digital, analogue and clock paths - E type for the SE tube output stage

Stereo Digital Input
• Integrated MUX: 2x BNC S/PDIF EBU, 1x Toslink™, 1x XLR S/PDIF EBU
• PLL receiver - maximum distance 30 meters
Sampling rate frequency 44.1 - 48 - 88.1 - 96 - 192KHz
Input impedance 75Ω balanced - input level 0,1V to max 3,3V but Toslink™

Stereo Analogue Input
• 3xRCA analogue balanced, 1*XLR analogue balanced
• mu-metal core transformer coupled (optional amorphous core)
Crosstalk -90dB @0 dBu In
Input impedance 20KΩ balanced ### max input level 2,5Vpp

Outputs
• 6 bands, miniXLR balanced
• mu-metal transformer (optional amorphous core) + 6 bands, miniXLR balanced, SE CV181T output line stage, Double-C core output transformer
Volume control 12 analogue channels, digitally controlled. Positioned just before the outputs and after the digital D/A
Maximum output level +21 dBu
Crosstalk -100dB
Output impedance 360 Ω balanced SE tube stage output, 100 Ω balanced direct output

Remote control
• WiFi or RS485 – Midi SysEx protocol
Functions
• X-over points adjustable for each channel: Butterworth 6, 12, 18, 24 or 48 dB/oct slope - Bessel 12 or 24 dB/oct slope - Linkwitz-Riley 12, 24 or 48 dB/oct slope;
• Dynamic equalizer adjustable for each channel: Low-pass, Band-pass, High Pass;
• Delay adjustable for each channel: from 0.00 to 11.00ms (0mm to 3,780mm) – 2.9µS (1mm) steps;
• Polarity-Phase adjustable for each channel

Power Supply in a separated cabinet
Dimensions W*D*XH 48*55*24H cm
Weight 32Kg

Specifications are subject to change without notice

CORUMAUDIO via Panfilo Castaldi 6 30020 Noventa di Piave Venice Italy +39 3357082807

Sinatra SYSTEM

CORUM AUDIO

WHOLE HORN SPEACKERS ONLY

Efficiency: 105 dB / W / m; with the bass cabinet in a corner
Frequency response: 27Hz-29KHz; with the bass cabinet in a corner
Impedance: 8Ω

Load capacity

- **Bass 15" paper cone & Alnico V magnet - 60W**
  solid state amplifier preferred
- **Medium 2" Beryllium Diaphragm & Alnico V magnet - 30W**
  tubes PP or SE amplifier preferred
- **Medium–Tremble 1" Beryllium Diaphragm & Alnico V magnet - 20W**
  tube SE amplifier preferred
- **Super Tweeter (Optional) Beryllium Diaphragm & Alnico V magnet - 15W**
  tube SE amplifier preferred

Dimensions WxHxD

- **Bass 90*90*135H including the stand**
- **Medium & Tremble ≈90cm diameter – 145H on the stand**

Weight

- **Bass approx. 320 Kg**
- **Medium-Tremble approx. 240Kg**

Specifications are subject to change without notice

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MAINS POWER SUPPLY

Voltage and frequency 230Vac 50/60Hz (110V optional)
Power consumption 75VAVA (max 120VA 15 sec.)
Fuse T 1A H
Receptacle Standard IEC
Dimensions 18*50*21H cm
Weight 20Kg

Specifications are subject to change without notice