



YAYUMA - What are the three components of the sound?

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“Audiofilia” is a disease, one which is treated by applying exactly the same stimulus that has initially caused it. Good sound, depending on the available quality, is capable of healing the one who is infected with this disease, a disease extremely pleasant in its symptoms, and put him back on his feet again within a matter of seconds. Sort of like extinguishing fire with ... fire.

During the Audio Video Show, 2015, an event as held each autumn, on a yearly basis in Warsaw, Poland, there was an unusual gathering, a crowd of people, squeezing like sardines... This, indeed, seemed initially difficult to explain.

A closed door, which opened from time to time, then people came out, and then another group of people came in. The sad and tired faces of those entering the room were in stark contrast to the faces of those, who were leaving it. Leaving the exhibition room of the YAYUMA company with undisguised, positively radiating emotions.

Everything seemed like a queue of patients in a line to visit a doctor, who, within a small, magical box, equipped with just but a few sockets and buttons, has that magical healing power, that universal antidote for any and all of audiophile diseases. The inconspicuousness of the exhibition room was simply amazing. Some typical speaker, a big banner that covers up the equipment, a computer, and two pairs of headphones ...

Quite dark an atmosphere, and for any and all who were visiting the premises past bedtime hour (i.e. after 9:00 PM) there was the complementary golden liquid within a glass with a thick bottom, that came in tow.

The YAYUMA company – representatives as depicted from left to right: Mr. Jarek Proksa, Mr. Jurek Pona, Mr. Marcin Skrzypczak (check it out phonetically and compare with the name of the company: “Ya”, “Yu”, “Ma”)

The three components of sound

The processing of audio signals remains unflawed and faithful to its original form in one, and only one situation. It is that fleeting moment, when we are listening to the actual performance LIVE. With no intermediary system.

Any and all processes, aiming to change the acoustic waves of the live musical performance into electrical signals, and then, vice versa, within a reversed process, from an electrical signal back into an acoustic wave again, are all subject to errors, which, obviously, all of the audio equipment manufacturers are trying to eliminate.

In short, the ideal situation is one in which the reproduced signal, the one that comes out, in the form of an acoustic wave, from the speaker system, possesses exactly the same physical characteristics, attributes, as the original sound wave, stemming directly from the live performance, the acoustic wave that "tickles" the membrane of the microphones that are standing in the studio or on the stage.

There is quite a number of companies out there, in the world, that create really fantastic algorithms, that take us closer to this ideal.

However, this time, the algorithm of the "three basic components of sound" has been written by the laws of physics themselves. By using the mathematical models that have been developed within the YAYUMA company, it has become possible to take notice, observe this algorithm, and then to reverse it, and then implement it into an envelope of electronics, so as to “undo” the “skewed results”.

The company YAYUMA

It all started some seven years ago, when the company has launched some research pertaining to the linearization of speaker diaphragm movements. The research aimed at improving the global quality of sound as produced by the transducers, but as it has then turned out, the chosen path has led the research team to a point, at which the sound was STILL unsatisfactory.

After this period of research, what remained were some very accurate mathematical models, representations of the workings of some typical transducers. These models were used in further research, and they were actually used to implement, build, a prototype device, that does things to the audio signal certain “things”, which till recently have apparently remained within the sphere of the most unrealistic audiophile dreams.

Technology "PONA sound" and "the device"

The technology is already patented in Switzerland, and the device itself, as presented on the trade fair, is but a small demo version. An "Airplane", or "light" version, as adapted to the realms of frequent business travel. Some time within the next year, there is a chance, that several devices will hit the Hi-End market. These devices will already have the PONA Sound Technology already implemented within. (PONA = "Pure Original Natural Audio" Sound).

How does this fare and what are the impressions after you activate the PONA sound technology within the signal path?

Many a time we were subjected to some sudden "illumination", we have suddenly "seen the light", moments similar to those when connecting some new cable to our system, or providing it with a signal from a reference source, or when going into a listening room, equipped with some really phenomenal, amazing loudspeakers.

The impression is of a change in the quality of the sound is indisputable. No questions about it. The sound scene is richer, new details start to surface, everything is much more analytical, albeit without loss of saturation, the stereophony imaging is much better.

We actually saw for our very own eyes the demo version on the device, hidden back on that shelf, behind the aforementioned masking banner. The inconspicuousness of the unit is surprising ... just as surprising is the sound that it generates.

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