

2011/7/11

Kubotek Corporation

Tamaebashi Bldg. Nakanoshima 4-3-36

Kita-Ku, Osaka, JAPAN

Devieview of Full Digital Control System

Haniwa Division of Kubotek Corporation has been developing the “Real 3D Audio System” which is clearly different from the conventional “High-End Audio”. Now, we announce the birth of new generation compact system.

The Digital System Amp HDSA01 has the signal path of 192kHz/24bit all through from analog/digital inputs to the final speaker driver, and integrates all the necessary functions for realizing Real 3D Audio, even including the high resolution digital recording. Combined with a pair of 2-way speakers (HSP2B Series), the most compact minimum system reproduces incredibly dynamic live performances in Real 3D.

This system will be released in mid August.

Product Configuration:

- Digital System Amp (HDSA01)
- Compact 2-Way Horn Speaker (HSP2B06) (Tuned to HDSA01)

Product Description:

“Real 3D Audio System” is developed with the simple and clear design concept, that utilizes “man’s natural 3D sensing skill by hearing”. This instinctive skill has been almost completely neglected by the conventional “High End Audio” industry.

Human 3D sensing skill by hearing is based on the delicate time difference between right and left ears, according to their distance gap to the sound source. When sensing the time distance, the start-up sharp transition is particularly well recognized, to gain the stable recognition of 3D space. This sense is common to all the creatures with audio capability, and essentially important for their survival.

The conventional audio system does not utilize this sensitive and accurate skill, but depends simply on the right and left sound volume balance to create so called “sound positioning”. However, its accuracy and stability of recognition is much lower than the method utilizing the “time difference between right and left ears”.

Haniwa “Real 3D Audio” successfully realized the overwhelming reality in the reproduced sound as if the music is played just in front of you, by tapping this basic, precise and accurate human skill.

The reproduction equipments of Haniwa Real 3D Audio System is made as “the transducer of input signal to the output sound without change”. Its signal path is completely digitalized, and it “preserves timing relations” precisely and accurately.

The speaker system is the transducer from signal to sound. To realize this end, it has the speedy response to reproduce sharp impulses, and has the shape not to generate any sound that is not within the input signal. Furthermore, the time delay, that is physically inevitable, is compensated by the digital signal processing technology. As the result, the time axis confusion in the output sound, caused by that time delay, is removed and the output sound has very close wave form to the original input signal.

The new Full Digital Control System encloses whole digital systems into one box (HDSA01), and it is combined with the compact Haniwa Speaker System (HSP2B06), resulting into the most concise system of all Haniwa systems.

The digital signal format of HDSA01 is 192kHz/24bit through the system, which is the minimum to be compatible with the human 3D sensing skill. As it is equipped with the USB I/O with PC and the analog input terminal, it can work as a precise digital sound recorder by itself.