

Haniwa
REAL 3D AUDIO

HSP1C Series
Full-Range Cube Speaker System

The tiny system brings a spacious concert hall into your private room.
No compromise about dynamism, scale and delicacy of music.
You feel togetherness with enthusiastic musicians,
and may give them a natural applause.



HSP1C06

HSP1C04

HDCA01

Digital Control Amplifier
(Tuned to HSP1C Series speakers.)

Haniwa technologies are condensed into tiny packages, with the latest digital signal processing.
A flip of switch transfers you to the best seat of large concert hall, or cosy corner of live Jazz session.

The equipments do not express themselves, but only music.

That is how they are made.

KUBOTEK

Haniwa REAL 3D AUDIO presents

Haniwa
REAL 3D AUDIO

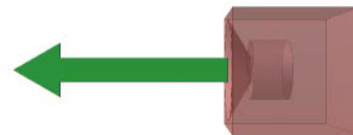
..... vital 3D spatial expression to all music lovers.

HSP1C Series Speakers for REAL 3D AUDIO



The small cubic speaker system HSP1C series is ideal for expressing the music, with high resolution 3D spatial dynamism.

HSP1C has full-closed small cubic cabinet. As such, the sound is projected only forward from one cone, and with sharp focus. This is needed for the real 3D presentation of virtuoso's best performances.



Full Range Speaker HSP1C Series

- Cube speaker models with 5.5" and 4" Magnesium alloy cone.
- HSP1C Series is a new generation speakers, based on a new theory of driving a single cone unit to cover whole bandwidth of music.
- Single unit speakers are better than multi-units in realizing clear spatial expression.
- The unique elastic damping mechanism realizes incredibly powerful low frequency sound for the small size.
- The Magnesium alloy cone has very little divided vibration, and has no peaks in phase curve for whole bandwidth.
- The cabinet is completely sealed and solid, producing no resonant sound but only the sound of input signal.



HDCA01 Full Digital Control Amplifier

HDCA01 processes the music signal digitally, at the rate of 192kHz/24bit, all through from the input to the output. This is necessary to keep the waveform of input signal transferred to the sound output from speaker, fulfilling the requirements on the accuracy of timing difference for human audio recognition of the realistic 3D space.

It also compensates the deformation of waveform happening at the speaker caused by the unavoidable physical restrictions. HDCA01 is tuned to the HSP1C series cube speakers for this purpose.

Haniwa cartridge retrieves all the details of performances by maestros recorded in the groove of Vinyls. This precise analog signals are converted to digital data for archiving.



The live performances by young artists can be taken with two omni-directional mics, and precisely digitized for realistic 3D spatial playback.

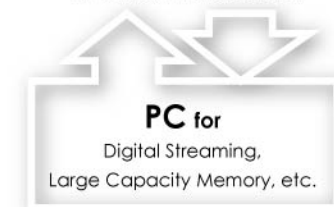


Any format of digital sound sources are accepted, and if they are recorded with two omni-directional mics, they are played back with Real 3D sound.

Full Digital Control Amp
HDCA01
Tuned to HSP1C Series



192KHz/24bit
Bi-Directional USB Link



HSP1C Series can be driven by your favorite power amps.

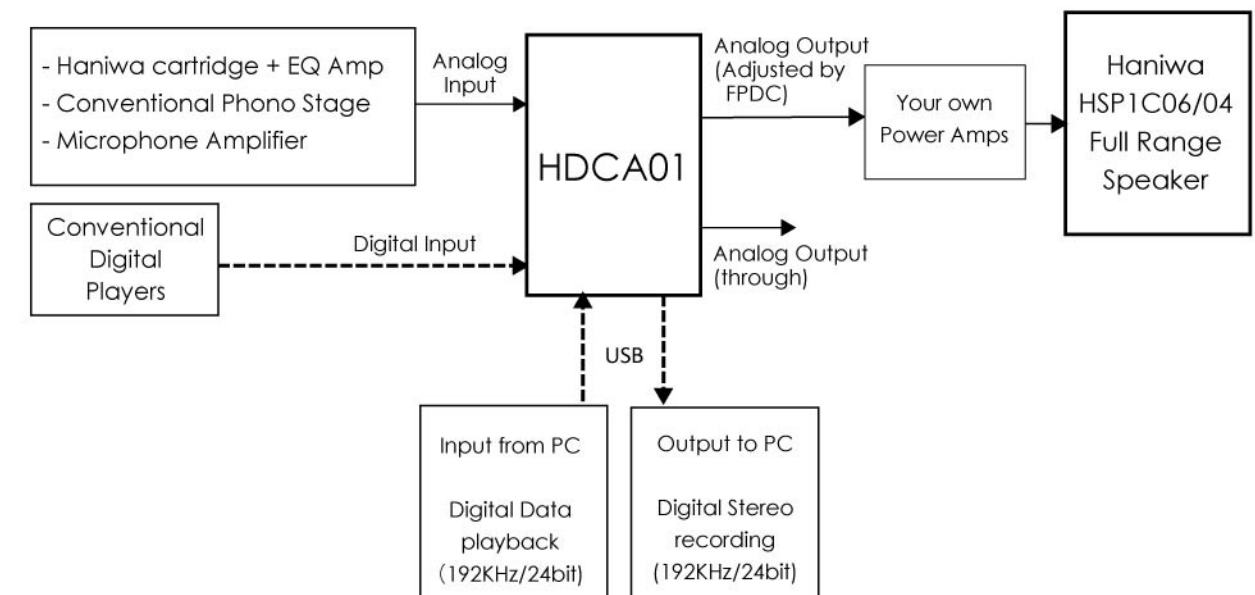


The physical characteristics of HSP1C speakers are digitally compensated by HDCA01 to keep authenticity of the sound to the input signal waveform.

As a result, the sound from HSP1C speakers preserves details of original music. No addition of seasoning by speakers, no missing articulate correspondence among parts of music.

HDCA01 : Full Digital Control Amplifier (Tuned to HSP1C Series)

System Connection Diagram



Haniwa REAL 3D AUDIO

FULL DIGITAL REAL 3D AUDIO SYSTEM

This system is developed to deliver the sum of Haniwa Real 3D Audio technologies to larger number of music lovers. It consists of tiny cubic full range speakers and a digital control amplifier tuned to that speakers.

HDCA01 digital control amplifier is keeping 192kHz/24bit format from the analog/digital input to the output to power amplifiers. It includes the high resolution digital recording function, also in 192kHz/24 bit format. So, this is a control center for reproducing the music signal received from the input, as the physical sound from the HSP1C series speakers. This conversion of music signal to physical sound is achieved with the highest authenticity of keeping their wave form unchanged.

Specifications: HSP1C Series Full Range Cube Speakers

	HSP1C04	HSP1C06
Full Range Unit	4-inch Magnesium AlloyCone	5.5-inch Magnesium Alloy Cone
Bandwidth	30Hz - 30kHz	25 Hz - 25kHz
Dimension (WHD)	170 x 170 x 170 mm	210 x 210 x 210 mm
Weight	2.8 Kg	4.2 Kg



Specifications: HDCA01 Digital Control Amplifier

Input	Analog	RCA Input : 2ch (stereo)
	Digital	Optical : 2ch / Coax : 2ch / AES : 1ch
Output	Analog	RCA Output : 1ch (stereo) through
		RCA Output : 1ch (stereo) tuned with FPDC
USB Port		Bi-directional USB 2.0
FPDC Unit		Gain & Phase curves are tuned simultaneously.
Dimension (WHD)		446 x 83 x 370mm
Weight		7.6kg



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