

HEGEL SyncroDAC™

HEGEL SyncroDAC™ Converter Technology.

Almost all HiFi CD-players today are using asynchronous upsampling to convert digital audio data to analog audio.

HEGEL found that using this kind of asynchronous converter technology will convert jitter error into amplitude error, giving less than optimal sound quality.

The HEGEL CD-players are using a new digital to analog conversion technology called synchronised upsampling. This new technology gives higher resolution and less distortion, giving a high sound quality. The syncroDAC™ technology is used together with the Direct MasterClock™ technology to keep jitter error and digital to analog conversion errors to a minimum. This will give a cleaner sound and a higher resolution than normal CD-player DAC technology.

The syncroDAC™ converter technology is using true balanced signal processing to preserve highest possible dynamic range and to reduce distortion.

Hegel has done a lot of research to be able to design the DAC converter boards in-house to convert the digital audio data into high resolution analog audio from the CDs. To be able to design the CD DAC converter boards in the best possible way requires a lot of deep technical knowledge in the fields of low noise analog electronics, high frequency electronics, signal processing electronics and advanced circuit board layout techniques.