

Alpha Processing

Denon have been at the forefront of Digital audio since its inception. Denon engineers developed the first practical PCM recorder in 1972.

The benefits of Digital Audio are numerous but Denon have always been concerned with quantization noise which is caused by the 16 bit / 44.1kHz quantization of PCM



Denon's first PCM recorder, 1972

Denon were determined to tackle the problem of quantization noise that remained in digital audio, and developed **ALPHA (adaptive line pattern harmonised algorithm)**, a technology that reproduced 16-bit data with 20-bit quality and it soon became a favourite with audiophiles around the world.

This revolutionary technology for improving PCM playback has been a cornerstone to Denon's philosophy on Audio quality

Denon's **ALPHA** technologies have been under constant redevelopment and today **AL24 processing** reproduces 16bit data at 24bit quality and **AL24 Processing Plus** supports 192kHz sampling frequencies.

The latest development **Advanced AL24 processing** has all the advantages of **AL24 Processing Plus** with a dramatically improved time line and sound stage response.

AL24 Processing Plus

ADVANCED *AL24* PROCESSING
MULTI CHANNEL

audioproducts
Group