



**KLARKTEKNIK**  
SIGNAL PROCESSING BY DEFINITION

IN FOCUS  
**DN4000**

## **DN4000**

Digital Parametric E.Q. Plus Delay  
**Where one is better then two**

### **Theatre Application**

For theatre applications the parametric equaliser is usually preferred over the Graphic equaliser. Klark Teknik have for some time produced the DN405 and DN410 analogue parametric equalisers for this purpose and these units are still specified and used in sound systems today. However, there has been increasing demand for having memories for this application as many shows today require changes in equalisation for different scenes. Also, there is more often than not several zones for the sound system and these need to be delayed. Unfortunately, this poses a problem as when a digital delay is in the signal path it is usually the poorest performer in the signal chain. Klark Teknik have alleviated this problem by producing the DN4000 which houses both units in one and by designing our own Enhanced A/D converter has significantly increased the dynamic range normally associated with digital products.

#### **DN4000**



- Dynamic Range 114dB
- 9 Bands of EQ per Channel
- Display 64 x 480 Res
- Instant Access
- Individual Parameter Encoders
- Sensing Switch Mode Supply
- Digital In/Out Option
- 2U Rack Space

#### **Varicurve TCS 804**

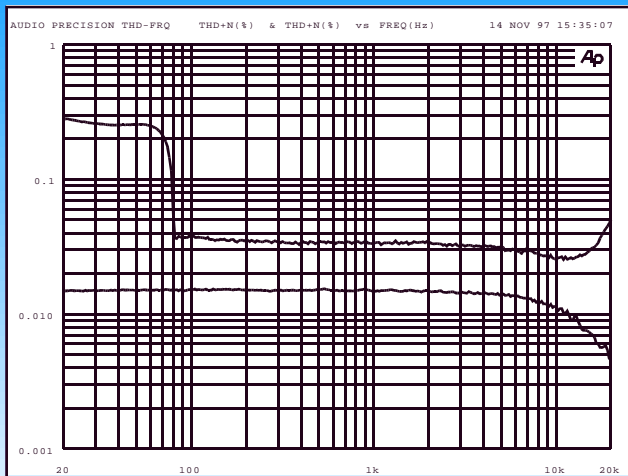


- Dynamic Range 105dB
- 6 Bands of EQ per Channel
- Display 64 x 240 Res
- Stepped Access
- One Assignable Encoder
- Standard Linear Supply
- Analogue In/Out Only
- 3U Rack Space

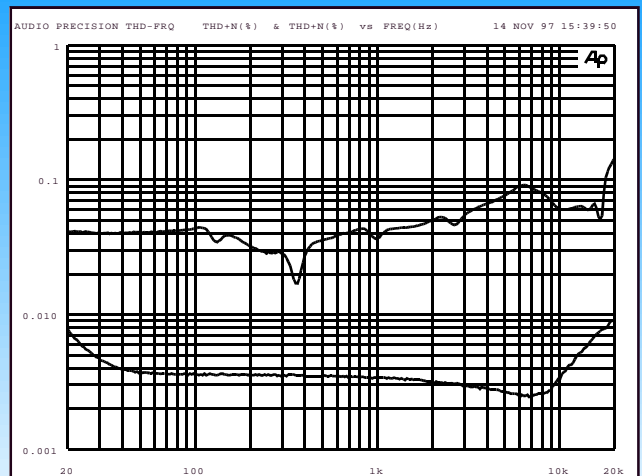
# Audio Precision Comparison

16384 point FFT plot  
(Plots attenuated at 42dB)

## Distortion + 20dBu 1kHz DN4000 v BSS

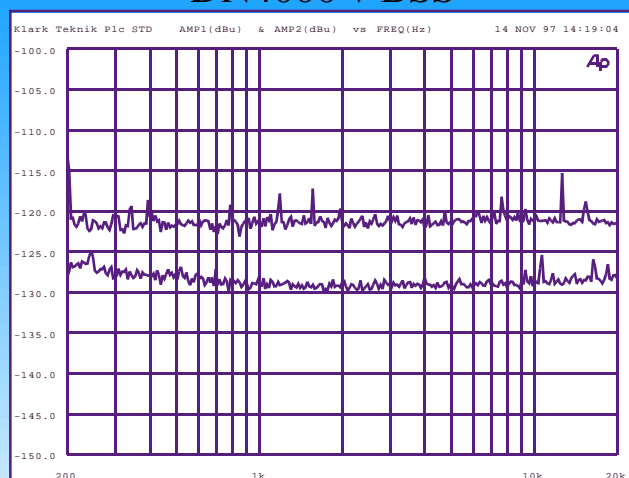


## Distortion @ +4dBu 1kHz DN4000 v BSS



As can be seen from both of the above graphs the DN4000 distortion is significantly lower than the Varicurve / TCS 804 combination and the difference becomes even larger at higher gain.

## Noise Floor DN4000 v BSS



This graph shows the audio difference between the Varicurve / TCS 804 combination and the DN4000. An average of 9dB is shown which equates to the BSS combination being more than 3 times noisier.

## Pro User Price Comparison

|               |       |              |       |
|---------------|-------|--------------|-------|
|               |       | <b>BSS</b>   |       |
| <u>DN4000</u> | ----- | Varicurve    | ----- |
|               |       | TCS 804      | ----- |
| <b>TOTAL</b>  | ----- | <b>TOTAL</b> | ----- |

KEY:  DN4000  Varicurve / TCS 804