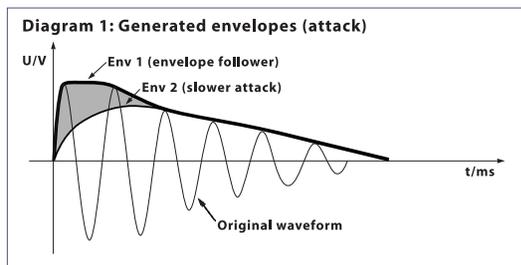


## Transient Designer

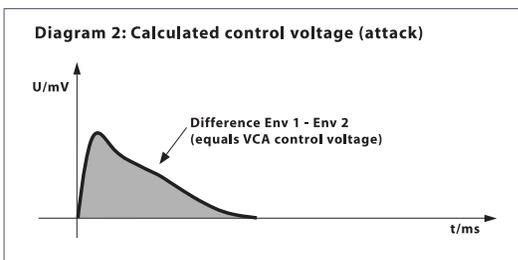
In nearly every aspect the TRANSIENT DESIGNER is different from conventional dynamic processors or compressors. The following explains all the benefits of this innovative signal processing technology.

### The ATTACK control

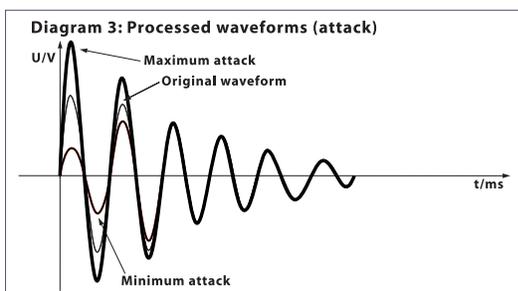
The ATTACK control circuitry uses two envelope generators. The first follows the shape of the original curve (Diagram 1: envelope follower Env 1), while the second generator produces the envelope Env 2 (Diagram 1) with a slower attack.



The hatched area shows the difference between Env 1 and Env 2 (Diagram 2), and the VCA control voltage is derived from this difference.



Positive ATTACK values emphasise attack events, negative ATTACK values smooth out the attack envelopes of events.

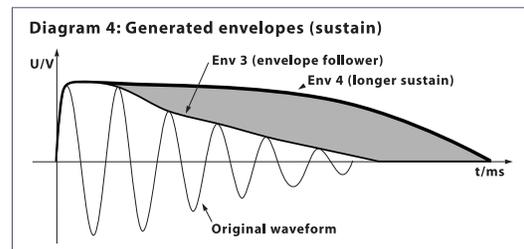


### Differential Envelope Technology

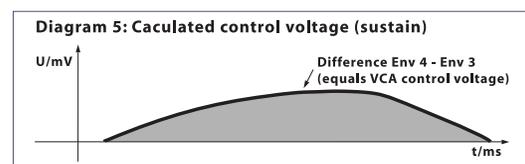
Differential Envelope Technology - DET<sup>®</sup> maintains identical envelope processing from quiet to loud signals. It renders conventional controls such as Threshold, Ratio, Attack and Release redundant.

### The SUSTAIN control

The SUSTAIN control circuitry includes two further envelope generators. The envelope follower Env 3 (Diagram 4), again follows the shape of the original curve.



For a longer period the envelope generator Env 4 (Diagram 4) holds the sustain level according to the peak level and the VCA control voltage is generated by the difference between Env 3 (Diagram 4: hatched area) and Env 4 (Diagram 5).



The sustain is extended at positive SUSTAIN settings and shortened at negative SUSTAIN settings.

