BALANCED PHASE EQ

Produce phase-coherent outputs from multiple audio channels that have different EQ settings

Overview	Sample Use Cases
alanced Phase EQ is targeted at:	
Equalisation of Line Array elements such that there are no phasing/cancellation effects where the listener in the audience is positioned such that they get spill-over from two line array elements	
Avoiding 'unexpected' cancellation/phasing effects when mixing/transitioning between two signal paths that have common source material with differing phase responses	
Applications	Fig. 1 Without <i>Balanced Phase EQ</i> , phase cancellation can occur where the dispersion overlaps
Live Sound / Touring Sound / Installed Sound Line Array Equalisation	
Transitioning between complex EQ settings that have common source material and different EQ settings	
Transitioning botwoon channels that share	

Fig. 2

Transitioning between channels that share source material (e.g. Empty Stadium/Full Stadium correction equalised settings with fader mixing to produce intermediate results - for example 33% full)

Patent information

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- 1. UK Patent No: 2484360 "Balanced Phase EQ"
- 2. US Patent No 9,119,002 "Balanced phase equalization"





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With Balanced Phase EQ, the phase

dispersion overlaps

cancellation is compensated for where the