

## GAE Director series – LE

### 3-way active with Low Extension

#### **Low Extension (BR series)**

Gain: adjust	Delay: adjust	Phase: +	
HPF: 30Hz	Butterworth	18dB/oct.	(3 <sup>rd</sup> order)
LPF: 90Hz	Linkwitz/Riley	24dB/oct.	(4 <sup>th</sup> order)
Band-EQ1: 40Hz	Q=3,0	B/W=0,48	Gain: +1,5...+4,5dB (Bass boost) BR115/BR215
Band-EQ1: 38Hz	Q=3,0	B/W=0,48	Gain: +1,0...+4,0dB (Bass boost) BR118/BR218

#### **Director Bass 2x18"**

Gain: +6dB (adjust)	Delay: 0,8ms	Phase: +	
HPF: 34Hz	Linkwitz/Riley	24dB/oct.	(4 <sup>th</sup> order)
LPF: 110Hz	Linkwitz/Riley	24dB/oct.	(4 <sup>th</sup> order)
Band-EQ1: 44Hz	Q=3,0	B/W=0,48	Gain: +3,0dB...+6,0dB (Bass boost)

#### **Director Top Mid 2x12"**

Gain: 0dB	Delay: 0,0ms	Phase: +	
HPF: 115Hz	Butterworth	24dB/oct.	(4 <sup>th</sup> order)
LPF: 1560Hz	Bessel	24dB/oct.	(4 <sup>th</sup> order/-3dB) i.e. 2375Hz/180°
Band-EQ1: 440Hz	Q=5,0	B/W=0,29	Gain: -3,0dB
Band-EQ2: 915Hz	Q=4,0	B/W=0,36	Gain: -3,0dB
Band-EQ3: 400Hz	LoSHF 2 <sup>nd</sup>	(Q=0,7)	Gain: 0...-3,0dB (Reduction Low-Mid coupling)

#### **Director Top High 1,4"**

Gain: adjust	Delay: 0,54ms	Phase: +	
HPF: 1460Hz	Bessel	24dB/oct.	(4 <sup>th</sup> order/-3dB) i.e. 945Hz/180°
LPF: bypass			
Band-EQ1: 1120Hz	Q=2,0	B/W=0,71	Gain: -4,5dB
Band-EQ2: 3500Hz	Q=3,5	B/W=0,41	Gain: -4,0dB
Band-EQ3: 11500Hz	HiSHF 2 <sup>nd</sup>	(Q=0,7)	Gain: +3,0dB

#### **Input EQs (Pre-EQs)**

PEQ1: 105Hz	Q=3,0	B/W=0,48	Gain: 0...-3,0dB (Level reduction crossover)
PEQ2: 1700Hz	Q=2,0	B/W=0,71	Gain: 0...-3,0dB (Mid reduction)

## GAE Director series – Top Fullrange

### Active Director Top Fullrange (Vocal Setup)

#### **Director Top Mid 2x12“**

Gain: 0dB    Delay: 0,0ms    Phase: +

HPF: 52Hz Butterworth 18dB/oct. (3<sup>rd</sup> order)

LPF: 1560Hz Bessel 24dB/oct. (4<sup>th</sup> order/-3dB) i.e. 2375Hz/180°

Band-EQ1: 440Hz    Q=5,0    B/W=0,29    Gain: -3,0dB

Band-EQ2: 915Hz    Q=4,0    B/W=0,36    Gain: -3,0dB

Band-EQ3: 400Hz    LoSHF 2<sup>nd</sup> (Q=0,7)    Gain: 0...-3,0dB (Reduction Low-Mid coupling)

#### **Director Top High 1,4“**

Gain: adjust    Delay: 0,54ms    Phase: +

HPF: 1460Hz Bessel 24dB/oct. (4<sup>th</sup> order/-3dB) i.e. 945Hz/180°

LPF: bypass

Band-EQ1: 1120Hz    Q=2,0    B/W=0,71    Gain: -4,5dB

Band-EQ2: 3500Hz    Q=3,5    B/W=0,41    Gain: -4,0dB

Band-EQ3: 11500Hz    HiSHF 2<sup>nd</sup> (Q=0,7)    Gain: +3,0dB

#### **Input EQs (Pre-EQs)**

PEQ1: 80Hz    Q=1,5    B/W=0,95    Gain: +5,5dB (Bass boost)

PEQ2: 1700Hz    Q=2,0    B/W=0,71    Gain: 0...-3,0dB (Mid reduction)

## GAE Director series Top passive

### Passive Top with Low Extension

#### **Low Extension (Director Bass 2x18“)**

Gain: +6dB (adjust)    Delay: 0,8ms    Phase: +

HPF: 34Hz                      Linkwitz/Riley 24dB/oct. (4<sup>th</sup> order)  
LPF: 110Hz                     Linkwitz/Riley 24dB/oct. (4<sup>th</sup> order)

Band-EQ1: 44Hz              Q=3,0              B/W=0,48    Gain: +3,0...+6,0dB (Bass boost)

#### **Director Top passive**

Gain: 0dB              Delay: 0,0ms              Phase: +

HPF: 115Hz              Butterworth 24dB/oct. (4<sup>th</sup> order)  
LPF: bypass

Band-EQ1:    400Hz    LoSHF 2<sup>nd</sup>    (Q=0,7)    Gain: 0...-3,0dB (Reduction Low/Mid coupling)

Band-EQ2:    440Hz    Q=5,0        B/W=0,29    Gain:    -3,0dB

Band-EQ3: 11500Hz    HiSHF 2<sup>nd</sup>    (Q=0,7)    Gain:    +3,0dB

#### **Input EQs (Pre-EQs)**

PEQ1: 105Hz              Q=3,0              B/W=0,48    Gain: 0...-3,0dB (Level reduction crossover)

PEQ2: 1700Hz              Q=2,0              B/W=0,71    Gain: 0...-3,0dB (Mid reduction)