



## EAW Loudspeaker Presets v2.1

Recommended for use with Lab.gruppen PLM™ Series power amplifiers, Dolby® Lake® processors, and Lake® Controller software v5.1 or above.

Please refer to the *Dolby® Lake® Controller Manual* and/or *Lake® Controller User Manual PLM™ Addendum* PDFs installed with Lake® Controller software for instructions on selecting and recalling the desired preset module(s).

Lake® MaxRMS and MaxPeak output limiter thresholds are not set. They should be adjusted to best suit your amplifiers. Lab.gruppen Inter-Sample Voltage Peak Limiter (ISVPL) voltages are set for use with PLM™ Series amplifiers.

All crossover filters, output PEQ filters, and output delays are locked. All module input processing is fully open and available for editing.

Relative output gains for full range loudspeakers are set “behind the curtain”. They assume each amplifier channel has the same voltage gain. If your amplifiers do not meet this criteria, the output gains may be trimmed +/- 10 dB. The table below can be used for guidance. Choose a reference amplifier gain in the left-most column and read across that row for appropriate processor gain adjustments.

**Step 2: Add/Subtract Value from Processor Output for Differing Amplifier Gain(s)**

	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
26	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15	-16
27	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14	-15
28	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13	-14
29	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12	-13
30	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12
31	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11
Step 1: Select Reference Amplifier Gain	32	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
33	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
34	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8
35*	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7
36	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6
37	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5
38	12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4
39	13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2	-3
40	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1	-2
41	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	-1
42	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0

\* 35 dB is the Reference Voltage Gain in the examples below.

Generally speaking, for best signal-to-noise performance choose the amplifier with the lowest voltage gain and “match” the other amplifiers to it by subtracting gain from processor output channel(s). For example:

	Voltage Gain	Proc Output Gain
LF Amplifier	39	-4
MF Amplifier	37	-2
HF Amplifier	35*	0

If you have amplifiers with wildly different voltage gains you may instead opt to select an in-between value as your reference and match the other amplifiers to it by subtracting and adding processor gain. For example:

	Voltage Gain	Proc Output Gain
LF Amplifier	42	-7
MF Amplifier	35*	0
HF Amplifier	26	+9