PRESET GUIDE

user manual（EN）

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www.qanon-audio.com

Introduction

- The QANON AUDIO VDA18 amplifier controller provides panel firmware and preset library. The preset library can be from the front panel of the amplifier controller or from the VDA controller software application, a dedicated for remote control and monitoring of the amplifier controller network.

- It is necessary to use VDA controller to update firmware on VDA18 amplification controller. The latest default library automatically installs firmware.

- Check the QANON AUDIO website for the latest version of software, firmware and library.

- Operate VDA18 amplification controller.

- Please refer to VDA18 and VDA-Rack user manual.

- Installation of VDA controller

- Download the latest version package from the website of QANON AUDIO and refer to the technical bulletin of installation.

- Upgrade the firmware on VDA18 amplification controller.

- Please refer to the help of VDA controller which can be accessed from the "help" menu of the software.

- This version of the preset guide introduces the VDA18 preset library version 1.0

Electro-acoustic coupling

Each recommended speaker configuration provides a coherent line source by installing the speaker system

In a specific deployment mode, with factory preset. QANON AUDIO factory preset ensures coupling between different transducer parts, whether internal coupling of active loudspeakers or external coupling of multiple loudspeakers. Users can adjust the preset parameters based on the factory settings and preset channel settings.

The channel group speaker configuration has been set up for active speaker housings and certain specification presets. The channel group maintains coherent coupling routing, gain and delay parameters by connecting multiple output channels. For example, [LF HF] is a preset channel for 2-way speakers, and [XXX_C] is a cardioid subwoofer preset.

The preset guide describes the speaker configurations recommended for each system, along with the corresponding factory presets and major acoustic characteristics. If applicable, refer to the relevant system's user manual for the limitations between coupling and detaching subwoofer. For some speaker housing combinations, it is necessary to adjust the delay value for the time calibration. Refer to the pre alignment delay value and frequency response curve in the chapter

For M、TC series coaxial speakers, there are two different preset modes:

- all preset applications except stage
- presets for stage monitor applications there are three different presets for traditional coaxial speaker enclosures (TC and PS Series)
- for most FOH applications, preset values
- presets for languages, classical music, jazz or other systems
- for half space lifting conditions, the preset values are usually used to monitor the application, with one or two different profiles for the current V-series system

The main preset ensures that the reference FOH contour of the line source is consistent with the common unfolding parameters

If necessary, users can adjust the characteristics of the system through IIR EQ tool in VDA controller. The array deforming tool provides two parameters, scaling factor and LF profile, which allows users to adjust the response of V series system.

VDA18 Preset Libraries

The VDA18 panel preset library is stored in the factory storage locations P11 to P92 of the controller. P1 to P10 are dedicated to storing user modified presets.recall P11 to P92 preset programs and store them in P1-P10 (according to the system configuration). The following table describes each preset, including the preset memory location number, name and description.

User Mode (Storable)

P1	[empty]	User Mode (Storable)
P2	[empty]	User Mode (Storable)
P3	[empty]	User Mode (Storable)
P4	[empty]	User Mode (Storable)
P5	[empty]	User Mode (Storable)
P6	[empty]	User Mode (Storable)
P7	[empty]	User Mode (Storable)
P8	[empty]	User Mode (Storable)
P9	[empty]	User Mode (Storable)
P10	[empty]	User Mode (Storable)

V15

P11	[V15] FOH	V15, full range

V12

P12	[V12] FOH	V12, full range
P13	[V12] FI	V12, full range, front fill / downfill V15

Veya

P14	[Veya] FOH	Veya, full range
P15	[Veya] FI	Veya, full range, front fill
P16	[Veya+VS28]	Veya & VS28 4+2 compact set, X-OVER=100Hz, full range, FOH

V10

P17	[V10] FOH	V10, full range
P18	[V10] FI	V10, full range, front fill / downfill
P19	[V10+V18]	V10 & V18 4+2 compact set, X-OVER=125Hz, full range, FOH
P20	[V10] DF V15	optimized delay for V15 downfill
P21	[V10] DF V12	optimized delay for V12 downfill

Voe

P22	[Voe] FOH	Voe, full range
P23	[Voe] FI	Voe, full range, front fill
P24	[Voe+Voe-L]	Voe & Vela-L 4+2 compact set, X-OVER=125Hz, full range, FOH
P25	[Voe-L_100]	Voe-L, LPF = 100Hz
P26	[Voe-L_125]	Voe-L, LPF = 125Hz

Vela

P27	[Vela] FOH	Vela, full range
P28	[Vela] FI	Vela, full range, front fill
P29	[Vela+Vela-L]	Vela & Vela-L 4+2 compact set, X-OVER=100Hz, full range, FOH
P30	[Vela-L_100]	Vela-L, LPF = 100Hz

V18

P31	[V18_100]	V18, LPF = 100Hz
P32	[V18_100_C]	V18, LPF = 100Hz cardioid pattern
P33	[V18_125]	V18, LPF = 125Hz
P34	[V18_125_C]	V18, LPF = 125Hz cardioid pattern

V25

P35	[V25_70]	V25, LPF = 70Hz
P36	[V25_70_C]	V25, LPF = 70Hz cardioid pattern
P37	[V25_100]	V25, LPF = 100Hz
P38	[V25_100_C]	V25, LPF = 100Hz cardioid pattern
P39	[V25_X V15]	V25, LPF=100 Hz, optimized for THROW configuration with V15
P40	[V25_X V12]	V25, LPF=100 Hz, optimized for THROW configuration with V12

VS28

P41	[VS28_60]	VS28, LPF = 60Hz
P42	[VS28_60_C]	VS28, LPF =60Hz cardioid pattern
P43	[VS28_100]	VS28, LPF = 100Hz
P44	[VS28_100_C]	VS28, LPF = 100Hz cardioid pattern

VS221

P45	[VS221_60]	VS221, LPF = 60Hz
P46	[VS221_60_C]	VS221, LPF =60Hz cardioid pattern
P47	[VS221_100]	VS221, LPF = 100Hz
P48	[VS221_100_C]	VS221, LPF = 100Hz cardioid pattern

Xiv15

P49	[Xiv15_100]	Xiv15, LPF = 100Hz

Xiv18

P50	[Xiv18_100]	Xiv18, LPF = 100Hz

Xiv28

P51	[Xiv28_100]	Xiv28, LPF = 100Hz

M15

P52	[M15]	M15, full range
P53	[M15_MO]	M15, full range, monitor, low latency

M12

P54	[M12]	M12, full range
P55	[M12_MO]	M12, full range, monitor, low latency

M10

P56	[M10]	M10, full range
P57	[M10_MO]	M10, full range, monitor, low latency

M8

P58	[M8]	M8, full range
P59	[M8_MO]	M8, full range, monitor, low latency

TC15

P60	[TC15]	TC15, full range
P61	[TC15_MO]	TC15, full range, monitor, low latency

TC12

P62	[TC12]	TC12, full range
P63	[TC12_MO]	TC12, full range, monitor, low latency

TC10

P64	[TC10]	TC10, full range
P65	[TC10_MO]	TC10, full range, monitor, low latency

PS15

P66	[PS15]	PS15, full range
P67	[PS15_MO]	PS15, full range, monitor, low latency

PS12

P68	[PS12]	PS12, full range
P69	[PS12_MO]	PS12, full range, monitor, low latency

QR15

P70	[QR15]	QR15, full range

QR12

P71	[QR12]	QR12, full range

QR10

P72	[QR10]	QR10, full range

5CS

P73	[5CS]	5CS, full range

5DS

P74	[5DS]	5DS, full range

Angel

P75	[Angel+AngelLow]	Angel, full range
P76	[Angel]	Angel, full range
P77	[AngelLow]	AngelLow, LPF = 125Hz
P78	[AngelSub]	AngelSub, LPF = 60Hz

Avi

P79	[Avi+AviLow]	Avi, full range
P80	[Avi]	Avi, full range
P81	[AviLow]	AviLow, LPF = 125Hz
P82	[AviSub]	AviSub, LPF = 100Hz

T1503

P83	[T1503] FOH	T1503, full range

T15

P84	[T15] FOH	T15, full range
P85	[T15] FI	T15, full range, front fill

T21

P86	[T21_60]	T21, LPF = 60Hz
P87	[T21_100]	T21, LPF = 100Hz

None

P88		
P89		
P90		
P91		

T21

P92	[FLAT]	Flat channel

V series Line sources system preset

The factory presets dedicated to variable curvature V series line sources are optimized for long throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, frequency response contour, or directivity specificity

[V15]

Loudspeaker Configuration	**Preset**			
	V15	**V25**	**VS28**	**VS221**
V15 line source	[V15] FOH	-		
V15 / V25 line source (V25 on top)	[V15] FOH	[V25_X V15]	-	-
V15 line source + coupled V25 subwoofers (beside or behind)	[V15] FOH	[V25_100]	[VS28_60]	-
V15 line source + coupled V25 subwoofers (beside or behind)	[V15] FOH	[V25_100]	-	[VS221_60]
V15 line source + subwoofers	[V15] FOH	-	[VS28_100]	-
V15 line source + subwoofers	[V15] FOH	-	-	[VS221_100]
V15 line source + coupled VS28 subwoofers (beside or behind)	[V15] FOH	-	[VS28_100]	[VS221_60]
Loudspeaker Configuration	**Preset**			
	V25	**V15**	**V10**	**VS28 / VS221**
V15 line source + V10 Downfill	[V25_X V15]	[V15] FOH	[V10] DF V15	[VS28_60] [VS221_60]

[V15] FOH

outputs	**channels**	**routing**	**gain**	**delay**	**polarity**	**mute**
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	MF					ON
out 4	HF					ON

[V25_X V15]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[V10] DF V15 / V12

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	HF					ON

With subwoofers as a cardioid array, use [VS28_60_C] & [VS221_60_C]

[V12_FI] Driven VDA-Rack

[V10] DF V15 Driven V10 Enclosure

The factory parameters already include optimal delay value for the coupling of a V15 line source with V10 as a downfill

Routing, gain, delay, polarity and mute parameters can be modified by the user.

V series Line sources system preset

The factory presets dedicated to variable curvature V series line sources are optimized for long throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, frequency response contour, or directivity specificity

[V12]

Loudspeaker Configuration	Preset			
	V12	**V25**	**VS28**	**VS221**
V12 line source	[V12] FOH	-		
V12 / V25 line source (V25 on top)	[V12] FOH	[V25_X V12]	-	-
V12 line source + coupled V25 subwoofers (beside or behind)	[V12] FOH	[V25_100]	[VS28_60]	-
V12 line source + coupled V25 subwoofers (beside or behind)	[V12] FOH	[V25_100]	-	[VS221_60]
V12 line source + subwoofers	[V12] FOH	-	[VS28_100]	-
V12 line source + subwoofers	[V12] FOH	-	-	[VS221_100]
V12 line source + coupled VS28 subwoofers (beside or behind)	[V12] FOH	-	[VS28_100]	[VS221_60]

[V12] FOH & [V12] FI

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	MF					ON
out 4	HF			`		ON

[V25_X V12]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[V10] DF V12

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	HF					ON

with subwoofers as a cardioid array, use [VS28_60_C] & [VS221_60_C]

[V10] DF V12 Driven V10 Enclosure

The factory parameters already include optimal delay value for the coupling of a V12 line source with V10 as a downfill

Routing, gain, delay, polarity and mute parameters can be modified by the user.

[Veya]

Loudspeaker Configuration	Preset			
	Veya	**V18**	**VS28**	**VS221**
Veya line source	[Veya] FOH	-	-	-
Veya / VS28 Compact Set	[Veya+VS28]	-	-	-
Veya line source + subwoofers	[Veya] FOH	-	[VS28_100]	-
Veya line source + subwoofers	[Veya] FOH	-	-	[VS221_100]
Veya line source + coupled V18 subwoofers (beside or behind)	[Veya] FOH	[V18_125]	[VS28_100]	-
Veya line source + coupled V18 subwoofers (beside or behind)	[V10] FOH	[V18_125]	-	[VS221_100]

[Veya] FOH

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF					ON
out 4	HF					ON

[Veya] FI

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	HF					ON

[V10]

Loudspeaker Configuration	Preset			
	V10	**V18**	**VS28**	**Other Sub**
V10 line source	[V10] FOH	-	-	-
V10 / V18 Compact Set	[V10+V18]	-	-	-
V10 / V18 line source (V18 on top)	[V10] FOH	[V18_125]	-	-
V10 line source + subwoofers	[V10] FOH	[V18_100]	-	-
V10 line source + subwoofers	[V10] FOH	-	[VS28_100]	-
V10 line source + coupled V18 subwoofers (beside or behind)	[V10] FOH	[V18_125]	[VS28_100]	-
V10 line source + subwoofers	[V10] FOH	-	-	[xxx_60] or [xxx_100]

[V10] FOH

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF					ON
out 4	HF					ON

[V10] FI

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	HF					ON

[V10+V18]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	V18	IN B	0 dB	0 ms	+	ON
out 4	XXX	IN C	0 dB	0 ms	+	ON

[V10] DF V15 / V12

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	HF					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

[Voe]

Loudspeaker Configuration	Preset			
	Voe	**Voe-L**	**VS28**	**Other Sub**
Voe line source	[Voe] FOH	-		-
Voe / Voe-L Compact Set	[Voe+Voe-L]	-		-
Voe / Voe-L line source (Voe-L on top)	[Voe] FOH	[Voe_125]	-	-
Voe line source + subwoofers	[Voe] FOH	[Voe_100]	-	-
Voe line source + subwoofers	[Voe] FOH		[VS28_100]	-
Voe line source + coupled Voe subwoofers (beside or behind)	[Voe] FOH	[Voe_125]	[VS28_100]	-
Voe line source + subwoofers	[Voe] FOH	-		[xxx_60] or [xxx_100]

[Voe] FOH

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF					ON
out 4	HF					ON

[Voe] FI

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	HF					ON

[Voe+Voe-L]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	Voe-L	IN C	0 dB	0 ms	+	ON
out 4	XXX	IN D	0 dB	0 ms	+	ON

[Voe-L_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[Voe-L_125]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

[V18_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[V18_100_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

[V18_125]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[V18_125_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

[V25_70]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[V25_70_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

[V25_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[V25_100_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

[V25_X V15 or V12]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

[VS28_60]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[VS28_60_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

[VS28_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[VS28_100_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

[VS221_60]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[VS221_60_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

[VS221_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[VS221_100_C]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF_C					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

[Xiv15_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[Xiv18_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[Xiv28_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

M15 Coaxial enclosures presets

The factory presets dedicated to coaxial enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[M15]

Loudspeaker Configuration	Preset			
	M15	**V18**	**Xiv_x8**	**VS_xxx**
M15	[M15]	-	-	-
	[M15_MO]			
M15 + Subwoofer	[M15]	[V18_100]	-	-
	[M15_MO]			
M15 + Subwoofer	[M15]	-	[Xiv x8_100]	-
	[M15_MO]			
M15 + Subwoofer	[M15]	-	-	[xxxx_100]
	[M15_MO]			

[xx_MO] presets for the M、TC series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[M15] and [M15_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

M12 Coaxial enclosures presets

The factory presets dedicated to coaxial enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[M12]

Loudspeaker Configuration	Preset			
	M12	**V18**	**Xiv15**	**VS_xxx**
M12	[M12]	-	-	-
	[M12_MO]			
M12 + Subwoofer	[M12]	[V18_100]	-	-
	[M12_MO]			
M12 + Subwoofer	[M12]	-	[Xiv15_100]	-
	[M12_MO]			
M12 + Subwoofer	[M12]	-	-	[xxxx_100]
	[M12_MO]			

[xx_MO] presets for the M、TC series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[M12] and [M12_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

M10 Coaxial enclosures presets

The factory presets dedicated to coaxial enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[M10]

Loudspeaker Configuration	Preset			
	M10	**Vela Sub**	**Xiv15**	-
M10	[M10]	-	-	-
	[M10_MO]			
M10 + Subwoofer	[M10]	[Vela Sub]	-	-
	[M10_MO]			
M10 + Subwoofer	[M10]	-	[Xiv15_100]	-
	[M10_MO]			

[xx_MO] presets for the M、TC series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[M10] and [M10_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

M8 Coaxial enclosures presets

The factory presets dedicated to coaxial enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[M8]

Loudspeaker Configuration	Preset			
	M10	**Vela Sub**	**Xiv15**	-
M8	[M8]	-	-	-
	[M8_MO]			
M8 + Subwoofer	[M8]	[Vela Sub]	-	-
	[M8_MO]			
M8 + Subwoofer	[M8]	-	[Xiv15_100]	-
	[M8_MO]			

[xx_MO] presets for the M、TC series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[M8] and [M8_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

TC15 Coaxial enclosures presets

The factory presets dedicated to coaxial enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[TC15]

Loudspeaker Configuration	Preset			
	TC15	V18	Xiv_x8	VS_xxx
TC15	[TC15]	-	-	-
	[TC15_MO]			
TC15 + Subwoofer	[TC15]	[V18_100]	-	-
	[TC15_MO]			
TC15 + Subwoofer	[TC15]	-	[Xiv x8_100]	-
	[TC15_MO]			
TC15 + Subwoofer	[TC15]	-	-	[xxxx_100]
	[TC15_MO			

[xx_MO] presets for the M、TC series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[TC15] and [TC15_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

TC12 Coaxial enclosures presets

The factory presets dedicated to coaxial enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[TC12]

Loudspeaker Configuration	Preset			
	TC12	**V18**	**Xiv15**	**VS_xxx**
TC12	[TC12]	-	-	-
	[TC12_MO]			
TC12 + Subwoofer	[TC12]	[V18_100]	-	-
	[TC12_MO]			
TC12 + Subwoofer	[TC12]	-	[Xiv15_100]	-
	[TC12_MO]			
TC12 + Subwoofer	[TC12]	-	-	[xxxx_100]
	[TC12_MO]			

[xx_MO] presets for the M、TC series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[TC12] and [TC12_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

TC10 Coaxial enclosures presets

The factory presets dedicated to coaxial enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[TC10]

Loudspeaker Configuration	Preset			
	TC10	**Vela Sub**	**Xiv15**	-
TC10	[TC10]	-	-	-
	[TC10_MO]			
TC10 + Subwoofer	[TC10]	[Vela Sub]	-	-
	[TC10_MO]			
TC10 + Subwoofer	[TC10]	-	[Xiv15_100]	-
	[TC10_MO]			

[xx_MO] presets for the M、TC series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[TC10] and [TC10_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

PS15 2-way passive enclosures presets

The factory presets dedicated to PS series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[PS15]

Loudspeaker Configuration	Preset			
	PS15	**V18**	**Xiv_x8**	**VS_xxx**
PS15	[PS15]	-	-	-
	[PS15_MO]			
PS15 + Subwoofer	[PS15]	[V18_100]	-	-
	[PS15_MO]			
PS15 + Subwoofer	PS15]	-	[Xiv x8_100]	-
	[PS15_MO]			
TC15 + Subwoofer	[PS15]	-	-	[xxxx_100]
	[PS15_MO]			

[xx_MO] presets for the PS series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[PS15] and [PS15_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

PS12 2-way passive enclosures presets

The factory presets dedicated to PS series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[PS12]

Loudspeaker Configuration	Preset			
	PS12	**V18**	**Xiv15**	**VS_xxx**
PS12	[PS12]	-	-	-
	[PS12_MO]			
PS12 + Subwoofer	[PS12]	[V18_100]	-	-
	[PS12_MO]			
PS12 + Subwoofer	[PS12]	-	[Xiv15_100]	-
	[PS12_MO]			
PS12 + Subwoofer	[PS12]	-	-	[xxxx_100]
	[PS12_MO]			

[xx_MO] presets for the PS series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[PS12] and [PS12_MO]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

QR15 2-way passive enclosures presets

The factory presets dedicated to QR series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[QR15]

Loudspeaker Configuration	Preset			
	QR12	Xiv15	Xiv18	Xiv28
QR15	[QR15]	-	-	-
QR15 + Subwoofer	[QR15]	[Xiv15_100]	-	-
QR15 + Subwoofer	[QR15]	-	[Xiv18_100]	-
QR15 + Subwoofer	[QR15]	-	-	[Xiv28_100]

[QR1x] presets for the QR series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[QR15]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

QR12 2-way passive enclosures presets

The factory presets dedicated to QR series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[QR12]

Loudspeaker Configuration	Preset			
	QR12	Xiv15	Xiv18	Xiv28
QR12	[QR12]	-	-	-
QR12 + Subwoofer	[QR12]	[Xiv15_100]	-	-
QR12 + Subwoofer	[QR12]	-	[Xiv18_100]	-
QR12 + Subwoofer	[QR12]	-	-	[Xiv28_100]

[QR1x] presets for the QR series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[QR12]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

QR10 2-way passive enclosures presets

The factory presets dedicated to QR series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[QR10]

Loudspeaker Configuration	Preset			
	QR10	**Xiv15**	**Xiv18**	-
QR10	[QR10]	-	-	-
QR10 + Subwoofer	[QR10]	[Xiv15_100]	-	-
QR10 + Subwoofer	[QR10]	-	[Xiv18_100]	-

[QR1x] presets for the QR series use the amplified controller low latency operating mode. When used along with subwoofers, it is recommended to use the subwoofers in low latency operating mode. To achieve this, create custom presets combining low latency channel sets and subwoofer channel sets.

[QR10]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF	IN B	0 dB	0 ms	+	ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	LF	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

Angel 2-way passive enclosures presets

The factory presets dedicated to A series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[Angel]

Loudspeaker Configuration	Preset			
	Angel	**AngelLow**	**AngelSub**	-
Angel	[Angel]	-	-	-
Angel + AngelLow	[Angel]	[AngelLow]	-	-
Angel + AngelLow + AngelSub	[Angel]	[AngelLow]	[AngelSub]	-

[Angel]

outputs	channels	routing	gain	delay	polarity	mute
out 1	Angel	IN A	0 dB	0 ms	+	ON
out 2	Angel	IN B	0 dB	0 ms	+	ON
out 3	Angel	IN C	0 dB	0 ms	+	ON
out 4	Angel	IN D	0 dB	0 ms	+	ON

[Angel+AngelLow]

outputs	channels	routing	gain	delay	polarity	mute
out 1	AngelLow	IN A	0 dB	0 ms	+	ON
out 2	Angel		0 dB	0 ms	+	ON
out 3	AngelLow	IN C	0 dB	0 ms	+	ON
out 4	Angel		0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

Avi 2-way passive enclosures presets

The factory presets dedicated to A series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[Avi]

Loudspeaker Configuration	Preset			
	Avi	**AviLow**	**AviSub**	-
Avi	[Avi]	-	-	-
Avi + AviLow	[Avi]	[AviLow]	-	-
Avi + AviLow + AviSub	[Avi]	[AviLow]	[AviSub]	-

[Avi]

outputs	channels	routing	gain	delay	polarity	mute
out 1	Avi	IN A	0 dB	0 ms	+	ON
out 2	Avi	IN B	0 dB	0 ms	+	ON
out 3	Avi	IN C	0 dB	0 ms	+	ON
out 4	Avi	IN D	0 dB	0 ms	+	ON

[Avi+AviLow]

outputs	channels	routing	gain	delay	polarity	mute
out 1	AviLow	IN A	0 dB	0 ms	+	ON
out 2	Avi		0 dB	0 ms	+	ON
out 3	AviLow	IN C	0 dB	0 ms	+	ON
out 4	Avi		0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

5CS / 5DS 2-way passive enclosures presets

The factory presets dedicated to 5 series enclosures are optimized for short throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, or frequency response contour.

[5CS]

Loudspeaker Configuration	Preset			
	5CS	**AviLow**	-	-
5CS	[5CS]	-	-	-
5CS + AviLow	[5CS]	[AviLow]	-	-

[5CS]

outputs	channels	routing	gain	delay	polarity	mute
out 1	5CS	IN A	0 dB	0 ms	+	ON
out 2	5CS	IN B	0 dB	0 ms	+	ON
out 3	5CS	IN C	0 dB	0 ms	+	ON
out 4	5CS	IN D	0 dB	0 ms	+	ON

[5DS]

Loudspeaker Configuration	Preset			
	5CS	**AviLow**	**AngelLow**	-
5DS	[5DS]	-	-	-
5DS + AviLow	[5DS]	[AviLow]	-	-
5DS + AngelLow	[5DS]	-	[AngelLow]	-

[5DS]

outputs	channels	routing	gain	delay	polarity	mute
out 1	5CS	IN A	0 dB	0 ms	+	ON
out 2	5CS	IN B	0 dB	0 ms	+	ON
out 3	5CS	IN C	0 dB	0 ms	+	ON
out 4	5CS	IN D	0 dB	0 ms	+	ON

Routing, gain, delay, polarity and mute parameters can be modified by the user.

T series constant curvature preset

The factory presets dedicated to variable curvature T series line sources are optimized for long throw applications. In the following sections, tables describe the loudspeaker configurations and the factory presets for each system. Discriminant acoustic properties of each loudspeaker configuration are given, such as -10 dB bandwidth or LF limit, frequency response contour, or directivity specificity

[T1503]

Loudspeaker Configuration	Preset			
	T1503	**T21**	**VS28**	**VS221**
T1503 Full Range	[T1503]	-	-	-
T1503 Full Range + coupled subwoofers	[T1503]	[T21_100]	[VS28_100]	[VS221_100]
T1503 Full Range + subwoofers	[T1503]	[T21_100]	[VS28_60]	[VS221_60]

[T1503]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	MHF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	MHF					ON

[T15]

Loudspeaker Configuration	Preset			
	T15	**T21**	**VS28**	**VS221**
T15 line source	[T15]	-	-	-
T15 line source + coupled subwoofers	[T15]	[T21_100]	[VS28_100]	[VS221_100]
T15 line source + subwoofers	[T15]	[T21_100]	[VS28_60]	[VS221_60]

[T15]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	HF					ON
out 3	LF	IN C	0 dB	0 ms	+	ON
out 4	HF					ON

[T21_60]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

[T21_100]

outputs	channels	routing	gain	delay	polarity	mute
out 1	LF	IN A	0 dB	0 ms	+	ON
out 2	LF					ON
out 3	LF					ON
out 4	LF					ON

with subwoofers as a cardioid array, use [xxxx_xx_C]

Routing, gain, delay, polarity and mute parameters can be modified by the user.

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