

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model		XY-81	XY-101	XY-122	XY-152	
General	GAIN	0 dB	0 dB	0 dB	0 dB	
	Delay	-	-	-	-	
	Polarity	Normal	Normal	Normal	Normal	
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct	LR 24dB/oct	LR 24dB/oct	BW 24dB/oct
		Freq.	35 Hz	32 Hz	20 Hz	32 Hz
	Low-pass	Type /Slope	-	-	-	LR 24dB/oct
		Freq.	-	-	-	20014 Hz
Equalizer Settings	EQ1	Type	-	Peaking	Peaking	Peaking
		Freq	-	82 Hz	3388 Hz	42 Hz
		Q (Bandwidth)	-	Q : 2 (Bandwidth : 0.7oct)	Q : 0.7 (Bandwidth : 1.9oct)	Q : 1.6 (Bandwidth : 0.9oct)
		Gain	-	+2.0dB	-2.5dB	+0.7dB
	EQ2	Type	-	Peaking	High-Shelving	Peaking
		Freq	-	1198 Hz	2997 Hz	86 Hz
		Q (Bandwidth)	-	Q : 1.8 (Bandwidth : 0.8oct)	slope 0.75 dB/oct	Q : 2 (Bandwidth : 0.7oct)
		Gain	-	-1.5dB	-1.5dB	+3.0dB
	EQ3	Type	-	High-Shelving	-	Peaking
		Freq	-	1000 Hz	-	172 Hz
		Q (Bandwidth)	-	slope 0.5 dB/oct	-	Q : 2 (Bandwidth : 0.7oct)
		Gain	-	-2.0dB	-	-1.2dB
	EQ4	Type	-	-	-	High-Shelving
		Freq	-	-	-	1233 Hz
		Q (Bandwidth)	-	-	-	slope 0.26 dB/oct
		Gain	-	-	-	-2.4dB
Peak Limiter Settings	Amplifier Input Voltage*		1.33 V	1.42 V	1.42 V	1.81 V
			4.7dBu	5.3dBu	5.3dBu	7.4dBu
	Amplifier Output Voltage		52.92 V	56.57 V	56.57 V	72.11 V

\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model		XY-115S	XY-118S	XY-215S	XY-218S	
General	GAIN	0 dB	0 dB	0 dB	0 dB	
	Delay	-	-	-	-	
	Polarity	Normal	Normal	Normal	Normal	
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct	LR 24dB/oct	BW 24dB/oct	LR 24dB/oct
		Freq.	40 Hz	32 Hz	35 Hz	24 Hz
	Low-pass	Type /Slope	BW 24dB/oct	LR 24dB/oct	BW 24dB/oct	BW 24dB/oct
		Freq.	115 Hz	110 Hz	110 Hz	115 Hz
Equalizer Settings	EQ1	Type	Peaking	-	-	Peaking
		Freq	84 Hz	-	-	78 Hz
		Q (Bandwidth)	Q : 1.7 (Bandwidth : 0.85oct)	-	-	Q : 2.9 (Bandwidth : 0.5oct)
		Gain	+2.0dB	-	-	+2.0dB
	EQ2	Type	-	-	-	Peaking
		Freq	-	-	-	210 Hz
		Q (Bandwidth)	-	-	-	Q : 2.5 (Bandwidth : 0.6oct)
		Gain	-	-	-	+3.0dB
	EQ3	Type	-	-	-	-
		Freq	-	-	-	-
		Q (Bandwidth)	-	-	-	-
		Gain	-	-	-	-
	EQ4	Type	-	-	-	-
		Freq	-	-	-	-
		Q (Bandwidth)	-	-	-	-
		Gain	-	-	-	-
Peak Limiter Settings	Amplifier Input Voltage*		1.67 V	2.25 V	1.42 V	2.01 V
			6.6dBu	9.2dBu	5.3dBu	8.3dBu
	Amplifier Output Voltage		66.33 V	89.44 V	56.57 V	80.00 V

\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model			XY-81 with XY-115S		XY-81 with XY-118S	
Speaker Model			XY-81	XY-115S	XY-81	XY-118S
General	GAIN		0 dB	+5.5dB	0 dB	+5.7dB
	Delay*		0.15ms	0.00ms	1.34ms	0.00ms
	Polarity		Normal	Normal	Normal	Normal
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct	LR 24dB/oct	LR 24dB/oct	LR 24dB/oct
		Freq.	90 Hz	41 Hz	95 Hz	32 Hz
	Low-pass	Type /Slope	LR 24dB/oct	BW 24dB/oct	LR 24dB/oct	LR 24dB/oct
		Freq.	20014 Hz	123 Hz	20014 Hz	110 Hz
Equalizer Settings	EQ1	Type	Peaking	Peaking	Peaking	Peaking
		Freq	2294 Hz	67 Hz	2294 Hz	60 Hz
		Q (Bandwidth)	Q : 3 (Bandwidth : 0.5oct)	Q : 4 (Bandwidth : 0.35oct)	Q : 3 (Bandwidth : 0.5oct)	Q : 3 (Bandwidth : 0.5oct)
		Gain	+1.5dB	-2.0dB	+1.5dB	+1.0dB
	EQ2	Type	Peaking	Peaking	Peaking	Peaking
		Freq	2808 Hz	84 Hz	2808 Hz	145 Hz
		Q (Bandwidth)	Q : 1.5 (Bandwidth : 0.95oct)	Q : 2 (Bandwidth : 0.7oct)	Q : 1.5 (Bandwidth : 0.95oct)	Q : 3 (Bandwidth : 0.5oct)
		Gain	-2.0dB	+2.0dB	-2.0dB	-2.0dB
	EQ3	Type	-	Peaking	-	-
		Freq	-	210 Hz	-	-
		Q (Bandwidth)	-	Q : 3 (Bandwidth : 0.5oct)	-	-
		Gain	-	+2.0dB	-	-
EQ4	Type	-	-	-	-	
	Freq	-	-	-	-	
	Q (Bandwidth)	-	-	-	-	
	Gain	-	-	-	-	
Peak Limiter Settings	Amplifier Input Voltage**		1.33 V	1.67 V	1.33 V	2.25 V
			4.7dBu	6.6dBu	4.7dBu	9.2dBu
	Amplifier Output Voltage		52.92 V	66.33 V	52.92 V	89.44 V

\*Delay time when a fullrange speaker is pole-mounted.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model			XY-81 with XY-215S	
Speaker Model			XY-81	XY-215S
General	GAIN		0 dB	-2.8dB
	Delay*		2.52ms	0.00ms
	Polarity		Normal	Normal
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct	BW 24dB/oct
		Freq.	105 Hz	35 Hz
	Low-pass	Type /Slope	LR 24dB/oct	BW 24dB/oct
		Freq.	17959 Hz	125 Hz
Equalizer Settings	EQ1	Type	Peaking	-
		Freq	2294 Hz	-
		Q (Bandwidth)	Q : 3 (Bandwidth : 0.5oct)	-
		Gain	+1.5dB	-
	EQ2	Type	Peaking	-
		Freq	2808 Hz	-
		Q (Bandwidth)	Q : 1.5 (Bandwidth : 0.95oct)	-
		Gain	-2.0dB	-
	EQ3	Type	-	-
		Freq	-	-
		Q (Bandwidth)	-	-
		Gain	-	-
EQ4	Type	-	-	
	Freq	-	-	
	Q (Bandwidth)	-	-	
	Gain	-	-	
Peak Limiter Settings	Amplifier Input Voltage**		1.33 V	1.42 V
			4.7dBu	5.3dBu
	Amplifier Output Voltage		52.92 V	56.57 V

\*Delay time when a fullrange speaker is pole-mounted.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model			XY-101 with XY-115S		XY-101 with XY-118S	
			XY-101	XY-115S	XY-101	XY-118S
General	GAIN		0 dB	+6.0dB	0 dB	+5.5dB
	Delay*		0.75ms	0.00ms	1.54ms	0.00ms
	Polarity		Normal	Normal	Normal	Normal
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct	LR 24dB/oct	LR 24dB/oct	LR 24dB/oct
		Freq.	95 Hz	40 Hz	105 Hz	34 Hz
	Low-pass	Type /Slope	-	BW 24dB/oct	-	LR 24dB/oct
		Freq.	-	115 Hz	-	110 Hz
Equalizer Settings	EQ1	Type	Peaking	Peaking	Peaking	Peaking
		Freq	210 Hz	67 Hz	1198 Hz	58 Hz
		Q (Bandwidth)	Q : 3 (Bandwidth : 0.5oct)	Q : 4 (Bandwidth : 0.35oct)	Q : 1.8 (Bandwidth : 0.8oct)	Q : 3 (Bandwidth : 0.5oct)
		Gain	+0.2dB	-2.2dB	-1.5dB	+0.5dB
	EQ2	Type	Peaking	Peaking	High-Shelving	Peaking
		Freq	1198 Hz	84 Hz	1000 Hz	145 Hz
		Q (Bandwidth)	Q : 1.8 (Bandwidth : 0.8oct)	Q : 2 (Bandwidth : 0.7oct)	slope 0.5 dB/oct	Q : 3 (Bandwidth : 0.5oct)
		Gain	-1.5dB	+2.2dB	-2.0dB	-2.6dB
	EQ3	Type	High-Shelving	Peaking	-	-
		Freq	1000 Hz	210 Hz	-	-
		Q (Bandwidth)	slope 0.50 dB/oct	Q : 3 (Bandwidth : 0.5oct)	-	-
		Gain	-2.0dB	+2.0dB	-	-
	EQ4	Type	-	-	-	-
		Freq	-	-	-	-
		Q (Bandwidth)	-	-	-	-
		Gain	-	-	-	-
Peak Limiter Settings	Amplifier Input Voltage**		1.42 V	1.67 V	1.42 V	2.25 V
			5.3dBu	6.6dBu	5.3dBu	9.2dBu
	Amplifier Output Voltage		56.57 V	66.33 V	56.57 V	89.44 V

\*Delay time when a fullrange speaker is pole-mounted.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model		XY-101 with XY-215S	
		XY-101	XY-215S
General	GAIN	0 dB	-3.0dB
	Delay*	2.49ms	0.00ms
	Polarity	Normal	Normal
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct
		Freq.	110 Hz
	Low-pass	Type /Slope	-
		Freq.	120 Hz
Equalizer Settings	EQ1	Type	Peaking
		Freq	1198 Hz
		Q (Bandwidth)	Q : 1.8 (Bandwidth : 0.8oct)
		Gain	-1.5dB
	EQ2	Type	High-Shelving
		Freq	1000 Hz
		Q (Bandwidth)	slope 0.5 dB/oct
		Gain	-2.0dB
	EQ3	Type	-
		Freq	-
		Q (Bandwidth)	Q : 3 (Bandwidth : 0.5oct)
		Gain	-2.0dB
	EQ4	Type	-
		Freq	-
		Q (Bandwidth)	-
		Gain	-
Peak Limiter Settings	Amplifier Input Voltage**	1.42 V	1.42 V
		5.3dBu	5.3dBu
	Amplifier Output Voltage	56.57 V	56.57 V

\*Delay time when a fullrange speaker is pole-mounted.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model		XY-122 with XY-115S		XY-122 with XY-118S		
		XY-122	XY-115S	XY-122	XY-118S	
General	GAIN	-5.8dB	+6.0dB	-5.5dB	+6.0dB	
	Delay*	0.00ms	0.76ms	0.49ms	0.00ms	
	Polarity	Normal	Normal	Normal	Normal	
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct	LR 24dB/oct	LR 24dB/oct	
		Freq.	74 Hz	40 Hz	85 Hz	32 Hz
	Low-pass	Type /Slope	LR 24dB/oct	BW 24dB/oct	LR 24dB/oct	LR 24dB/oct
		Freq.	20014 Hz	125 Hz	17959 Hz	110 Hz
Equalizer Settings	EQ1	Type	Peaking	Peaking	Peaking	
		Freq	3152 Hz	67 Hz	3152 Hz	145 Hz
		Q (Bandwidth)	Q : 0.7 (Bandwidth : 1.9oct)	Q : 3 (Bandwidth : 0.5oct)	Q : 0.7 (Bandwidth : 1.9oct)	Q : 3 (Bandwidth : 0.5oct)
		Gain	-3.0dB	-2.0dB	-3.0dB	-2.0dB
	EQ2	Type	Peaking	Peaking	Peaking	-
		Freq	4207 Hz	84 Hz	4207 Hz	-
		Q (Bandwidth)	Q : 1.5 (Bandwidth : 0.95oct)	Q : 2 (Bandwidth : 0.7oct)	Q : 1.5 (Bandwidth : 0.95oct)	-
		Gain	-1.0dB	+2.0dB	-1.0dB	-
	EQ3	Type	High-Shelving	Peaking	High-Shelving	-
		Freq	2997 Hz	210 Hz	2997 Hz	-
		Q (Bandwidth)	slope 0.75 dB/oct	Q : 3 (Bandwidth : 0.5oct)	slope 0.75 dB/oct	-
		Gain	-1.5dB	+2.0dB	-1.5dB	-
	EQ4	Type	-	-	-	-
		Freq	-	-	-	-
		Q (Bandwidth)	-	-	-	-
		Gain	-	-	-	-
Peak Limiter Settings	Amplifier Input Voltage**	1.42 V	1.67 V	1.42 V	2.25 V	
		5.3dBu	6.6dBu	5.3dBu	9.2dBu	
	Amplifier Output Voltage	56.57 V	66.33 V	56.57 V	89.44 V	

\*Delay time when a fullrange speaker is pole-mounted.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model			XY-122 with XY-215S		XY-122 with XY-218S	
Speaker Model			XY-122	XY-215S	XY-122	XY-218S
General	GAIN		0 dB	+2.0dB	-1.0dB	+6.0dB
	Delay		2.48ms*	0.00ms*	2.59ms**	0.00ms**
	Polarity		Normal	Normal	Normal	Normal
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct	BW 24dB/oct	LR 24dB/oct	LR 24dB/oct
		Freq.	95 Hz	28 Hz	90 Hz	24 Hz
	Low-pass	Type /Slope	LR 24dB/oct	BW 24dB/oct	LR 24dB/oct	BW 24dB/oct
		Freq.	20014 Hz	125 Hz	17959 Hz	90 Hz
Equalizer Settings	EQ1	Type	Peaking	-	Peaking	Peaking
		Freq	3152 Hz	-	3152 Hz	78 Hz
		Q (Bandwidth)	Q : 0.7 (Bandwidth : 1.9oct)	-	Q : 0.7 (Bandwidth : 1.9oct)	Q : 2.9 (Bandwidth : 0.5oct)
		Gain	-3.0dB	-	-3.0dB	+2.0dB
	EQ2	Type	Peaking	-	Peaking	Peaking
		Freq	4207 Hz	-	4207 Hz	210 Hz
		Q (Bandwidth)	Q : 1.5 (Bandwidth : 0.95oct)	-	Q : 1.5 (Bandwidth : 0.95oct)	Q : 2.5 (Bandwidth : 0.6oct)
		Gain	-1.0dB	-	-1.0dB	+3.0dB
	EQ3	Type	High-Shelving	-	High-Shelving	-
		Freq	2997 Hz	-	2997 Hz	-
		Q (Bandwidth)	slope 0.75 dB/oct	-	slope 0.75 dB/oct	-
		Gain	-1.5dB	-	-1.5dB	-
	EQ4	Type	-	-	-	-
		Freq	-	-	-	-
		Q (Bandwidth)	-	-	-	-
		Gain	-	-	-	-
Peak Limiter Settings	Amplifier Input Voltage***		1.42 V	1.42 V	1.42 V	2.01 V
			5.3dBu	5.3dBu	5.3dBu	8.3dBu
	Amplifier Output Voltage		56.57 V	56.57 V	56.57 V	80.00 V

\*Delay time when XY-122 is pole-mounted on XY-215S.

\*\*Delay time for XY-122 and XY-218S which are installed as follows:

Using a loudspeaker stand to install XY-122.

Stacking 2 units of XY-218S on the floor between 2 units of XY-122.

\*\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB



## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model		XY-152 with XY-118S			
		XY-152		XY-118S	
General	GAIN	-7.0dB		+6.0dB	
	Delay*	0.40ms		0.00ms	
	Polarity	Normal		Normal	
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct		LR 24dB/oct
		Freq.	85 Hz		32 Hz
	Low-pass	Type /Slope	LR 24dB/oct		LR 24dB/oct
		Freq.	20014 Hz		100 Hz
Equalizer Settings	EQ No.	EQ1	EQ4	EQ1	EQ4
	Type	Peaking	-	Peaking	-
	Freq	86 Hz	-	58 Hz	-
	Q (Bandwidth)	Q : 2 (Bandwidth : 0.7oct)	-	Q : 3 (Bandwidth : 0.5oct)	-
	Gain	+1.5dB	-	+0.5dB	-
	EQ No.	EQ2	EQ5	EQ2	EQ5
	Type	Peaking	-	Peaking	-
	Freq	172 Hz	-	145 Hz	-
	Q (Bandwidth)	Q : 2 (Bandwidth : 0.7oct)	-	Q : 3 (Bandwidth : 0.5oct)	-
	Gain	-1.2dB	-	-2.6dB	-
	EQ No.	EQ3	EQ6	EQ3	EQ6
	Type	High-Shelving	-	-	-
Freq	1233 Hz	-	-	-	
Q (Bandwidth)	slope 0.26 dB/oct	-	-	-	
Gain	-2.0dB	-	-	-	
Peak Limiter Settings	Amplifier Input Voltage**	1.81 V		2.25 V	
		7.4dBu		9.2dBu	
	Amplifier Output Voltage	72.11 V		89.44 V	

\*Delay time when a fullrange speaker is pole-mounted.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

Speaker Model		XY-152 with XY-215S				
		XY-152		XY-215S		
General	GAIN	0 dB		+2.6dB		
	Delay*	10.22ms		0.00ms		
	Polarity	Normal		Normal		
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct		BW 24dB/oct	
		Freq.	80 Hz		29 Hz	
	Low-pass	Type /Slope	LR 24dB/oct		BW 24dB/oct	
		Freq.	20014 Hz		127 Hz	
Equalizer Settings	EQ No.	EQ1	EQ4	EQ1	EQ4	
	Type	Peaking	Low-Shelving	Peaking	-	
	Freq	57 Hz	65 Hz	130 Hz	-	
	Q (Bandwidth)	Q : 3 (Bandwidth : 0.5oct)	slope 1 dB/oct	Q : 4 (Bandwidth : 0.35oct)	-	
	Gain	+2.0dB	+3.8dB	-0.5dB	-	
	EQ No.	EQ2	EQ5	EQ2	EQ5	
	Type	Peaking	High-Shelving	-	-	
	Freq	86 Hz	1233 Hz	-	-	
	Q (Bandwidth)	Q : 2.2 (Bandwidth : 0.65oct)	slope 0.26 dB/oct	-	-	
	Gain	+1.8dB	-1.7dB	-	-	
	EQ No.	EQ3	EQ6	EQ3	EQ6	
	Type	Peaking	-	-	-	
Freq	1424 Hz	-	-	-		
Q (Bandwidth)	Q : 2 (Bandwidth : 0.7oct)	-	-	-		
Gain	+1.2dB	-	-	-		
Peak Limiter Settings	Amplifier Input Voltage**	1.81 V		1.42 V		
		7.4dBu		5.3dBu		
	Amplifier Output Voltage	72.11 V		56.57 V		

\*Delay time when a fullrange speaker is pole-mounted.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB

## Processor settings for XY Series

Depending on the installation environment, change the settings of Delay and EQ, etc.

Version 2.1 Oct. 2014

		XY-152 with XY-218S				
Speaker Model		XY-152		XY-218S		
General	GAIN	-1.0dB		+6.0dB		
	Delay*	7.60ms		0.00ms		
	Polarity	Normal		Normal		
CrossOver Settings	Hi-pass	Type /Slope	LR 24dB/oct		LR 24dB/oct	
		Freq.	80 Hz		28 Hz	
	Low-pass	Type /Slope	LR 24dB/oct		BW 24dB/oct	
		Freq.	20014 Hz		115 Hz	
Equalizer Settings	EQ No.	EQ1	EQ4	EQ1	EQ4	
	Type	Peaking	Peaking	Peaking	-	
	Freq	45 Hz	1424 Hz	62 Hz	-	
	Q (Bandwidth)	Q : 1.6 (Bandwidth : 0.9oct)	Q : 2 (Bandwidth : 0.7oct)	Q : 3.4 (Bandwidth : 0.4oct)	-	
	Gain	+0.5dB	+1.2dB	+0.8dB	-	
	EQ No.	EQ2	EQ5	EQ2	EQ5	
	Type	Peaking	Low-Shelving	Peaking	-	
	Freq	55 Hz	65 Hz	86 Hz	-	
	Q (Bandwidth)	Q : 3 (Bandwidth : 0.5oct)	slope 1 dB/oct	Q : 3.4 (Bandwidth : 0.4oct)	-	
	Gain	+2.0dB	+4.0dB	+0.5dB	-	
	EQ No.	EQ3	EQ6	EQ3	EQ6	
	Type	Peaking	High-Shelving	Peaking	-	
Freq	86 Hz	1233 Hz	250 Hz	-		
Q (Bandwidth)	Q : 2.2 (Bandwidth : 0.65oct)	slope 0.26 dB/oct	Q : 3.5 (Bandwidth : 0.4oct)	-		
Gain	+2.0dB	-1.7dB	+2.7dB	-		
Peak Limiter Settings	Amplifier Input Voltage**	1.81 V		2.01 V		
		7.4dBu		8.3dBu		
	Amplifier Output Voltage	72.11 V		80.00 V		

\*Delay time for XY-152 and XY-218S which are installed as follows:

Using a loudspeaker stand to install XY-152.

Stacking 2 units of XY-218S on the floor between 2 units of XY-152.

\*\*Amplifier Input Voltage calculated at Amplifier gain of 32 dB