

Suggested Crossover parameters for use with a Wharfedale Pro Versadrive SC-48

WLA-312X (35 dB Gain power amplifier) SC-48 Electronic frequency divider	Recommended Amplifier DP-4100(D)			
LF	LF		HighPass	LowPass
Gain	+5 dB			
High/Low Pass frequency			35 Hz	160 Hz
Slope			BW-18	LK-48
DELAY	0.427 ms			
PEQ:	Frequency	Gain	Q	Type
	40 Hz	+3 dB	3	Peak
	110 Hz	-6 dB	1.4	Peak
	Threshold	ratio	attack	release
Peak Limiter	+8.5 dB	x	12 ms	96 ms
Comp (RMS) Limiter	+2.5 dB	1:10	1000 ms	3000 ms
MF	MF		HighPass	LowPass
Gain	-6 dB			
High/Low Pass frequency			180 Hz	1 kHz
Slope			LK-48	LK-36
DELAY	0.0 ms			
PEQ:	Frequency	Gain	Q	Type
	255 Hz	-5 dB	3	Peak
	870 Hz	+3 dB	6	Peak
	Threshold	ratio	attack	release
Peak Limiter	+10.5 dB	x	4 ms	40 ms
Comp (RMS) Limiter	+4.5 dB	1:10	400 ms	1000 ms
HF	HF		HighPass	LowPass
Gain	-11dB			
High/Low Pass frequency			1 kHz	
Slope			BW-48	
DELAY	0.542 ms			
PEQ:	Frequency	Gain	Q	Type
	1260 Hz	-6 dB	1.4	Peak
	2960 Hz	-7dB	5	Peak
	8000 Hz	+9 dB	0.7	High Shelf
	Threshold	ratio	attack	release
Peak Limiter	+10.5 dB	x	1 ms	12 ms
Comp (RMS) Limiter	+1.5 dB	1:10	200 ms	400 ms

ARRAY SCALING

Please note: ALL the loudspeakers in the same array MUST have the same AS EQ.

2 TO 4 WLA-312X			
Frequency	Gain	Q	Type
315 Hz	-4.5	0.7	Low Shelf
455 Hz	-1	3	Peak
5 TO 8 WLA-312X			
Frequency	Gain	Q	Type
315 Hz	-9	0.7	Low Shelf
455 Hz	-1.5	3	Peak
MORE THAN 8 WLA-312X			
Frequency	Gain	Q	Type
315 Hz	-12	0.7	Low Shelf
455 Hz	-2	3	Peak

RANGE EQ

Please note: apply ONE Range EQ filter only at a time

	Frequency	Gain	Q	Type
9 m	18 kHz	2	1.7	Peak
15 m	18 kHz	6	1.7	Peak
21 m	15 kHz	6	1.7	Peak
27 m	12.5 KHz	6	1.7	Peak
40 m	10.5 KHz	6	1.4	Peak
> 40 m	8.5 KHz	6	1.4	Peak

SPECIFICATIONS

Model Name	WLA-312X
System Type	Passive
Configuration	three-way
Frequency Response (+/-3 dB)	50-18 kHz
Frequency Range (-10 dB)	40-20 kHz
Sensitivity 2.83 v / 1 Meter	HF:114 dB/MF:105 dB/LF:102 dB
Calculated Maximum SPL @ 1 Meter	HF:142 dB/MF:136 dB/LF:138 dB
Low Frequency Transducer	
Size (mm / inches)	313 mm / 12"
Voice Coil Size (mm / inches)	75.5 mm / 3"
LF Magnet Material	Ferrite
LF Frame Material	Aluminium
Rated Impedance	2 x 8 Ω
LF Power re:AES2-2012	2 x 450 W
Mid Frequency Transducer	
Size (mm / inches)	260 mm / 10"
Voice Coil Size (mm / inches)	65 mm / 2.55"
MF Magnet Material	NdFeB
MF Frame Material	Aluminium
Rated Impedance	16 Ω
MF Power re:AES2-2012	350 W
High Frequency Transducer	
HF Driver Type	Compression Driver
Coil Size (mm / inches)	65 mm / 2.55"
Exit Size (mm / inches)	1.4"
HF Magnet Material	NdFeB
Diaphragm Material	Titanium
Rated Impedance	16 Ω (2 x 8 Ω)
HF Power re:AES2-2012	160 W (2 x 80 W)
Waveguide Type	square
Nominal Coverage (H x V)	90H x 7.5V
Nominal Impedance	16 Ω
Power	
System Power AES (RMS) (w)	HF:160 W/MF:350 W/LF:900 W
System Programme Power (w)	HF:320 W/MF:700 W/LF:1800 W
System Peak Power (w)	HF:640 W/MF:1400 W/LF:3600 W
Crossover frequency	160 Hz / 1.2 kHz
Input Connector	2 x Neutrik NL8MPR
Rigging	3 points for rigging
Pole mount	NO
Handles	Yes
Enclosure	
Cabinet type	Trapezoid
Enclosure Material and finish	15 mm,18 mm plywood
Colour Options	black paint
Grille Material & Finish	steel
Dimensions - Unpacked	
Height	370 mm
Width Front	1030 mm
Width Rear	279 mm
Depth	550 mm
Dimensions - Packed	
Height	1095 mm
Width Front	480 mm
Width Rear	480 mm
Depth	650 mm
Weight	
Net Weight	58 kg
Gross Weight	62 kg