

NEW PRODUCT INFO

PRELIMINARY RELEASE SPECS & IMAGES SUBJECT TO CHANGE.



WLA-118SUBA WLA-118SUB

18" Flying Subwoofers

Since launch, the Wharfedale Pro WLA-1 Hybrid Curvature Line Array system has really opened some ears! Around the world the versatility and system performance has been enjoyed in many live performances and fixed installations. With drivers made in Europe by Beyma, WLA-1 (and the active version WLA-1A) has truly delivered on its amazing specifications.

Introducing the 18" subwoofer for the WLA-1 system. WLA-118SUB - and active version WLA-118SUBA. New compact subwoofer solutions which increase both the system scalability and the system performance.

Using custom Duo layer Beyma drivers these 18" solutions pack a punch. Just like the bigger WLA-121SUB (A), the new WLA-118SUB (A) can be flown from the optional WLA-1 Common Fly Frame or can be deployed on the ground to support a WLA-112 (A) or WLA-115 (A) element on a pole - thus delivering the ultimate in versatility and configuration options.

Covered in Wharfedale Pro's latest paint finish, Tough-Tone, the WLA-118SUB is durable, powerful and practical both to transport and to rig.

When combined with the stunning 21" subwoofer from the WLA-1 series, there is extended infrabass from the 21" and an extreme punch from the 18". A combination to be experienced!

The WLA-1 System - 12", 15" full range models and now 18" and 21" subs....available in active AND passive.



WLA-118SUB - 18" passive subwoofer

1600 W Continuous

6400 W Peak

WLA-118SUBA - 18" active subwoofer

2200 W Continuous

4400 W Peak

AVAILABILITY

WLA-118SUB / WLA-118SUBA

Shipping from Oct 2023

FEATURES

- Active or Passive models
- Duo layer 18" Beyma drivers
- Tough-Tone paint finish
- Integral side and back 3-point rigging system
- Premium Baltic birch construction
- .gll files available for download
- Presets for passive model for DP-F / DP-N amps + SC-48FIR
- Versatile and practical
- Use in conjunction with the 21" sub for infrabass AND punch

18" SUBWOOFER



TOUGH-TONE

DURABLE PAINT FINISH

WLA-115 / WLA-112
Integrated rigging bar

M20 pole
socket

2 x carry handles

18 mm birch
plywood
construction

Integral side plate
rigging system.

(plus one around the rear for 3 point rigging)

Steel grille

18" Beyma subwoofer driver

Malt Cross® technology cooling system

4.0" Duo in/out copper voice coil

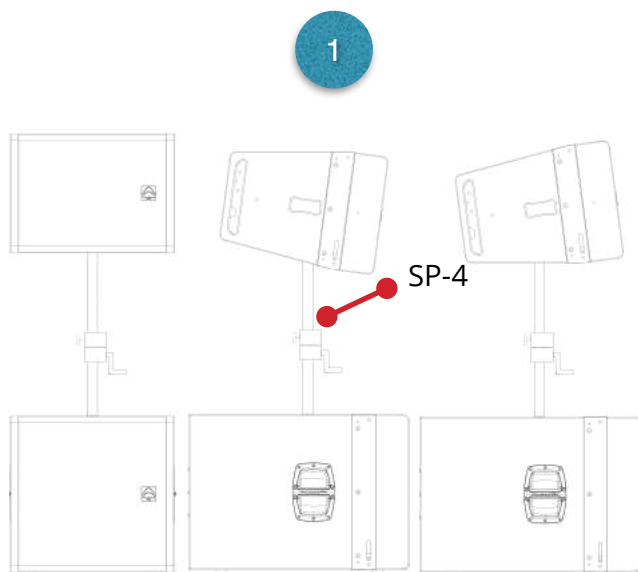
Weatherproof cone

FEA optimized ceramic
magnetic circuit

60 mm peak-to-peak
excursion before damage

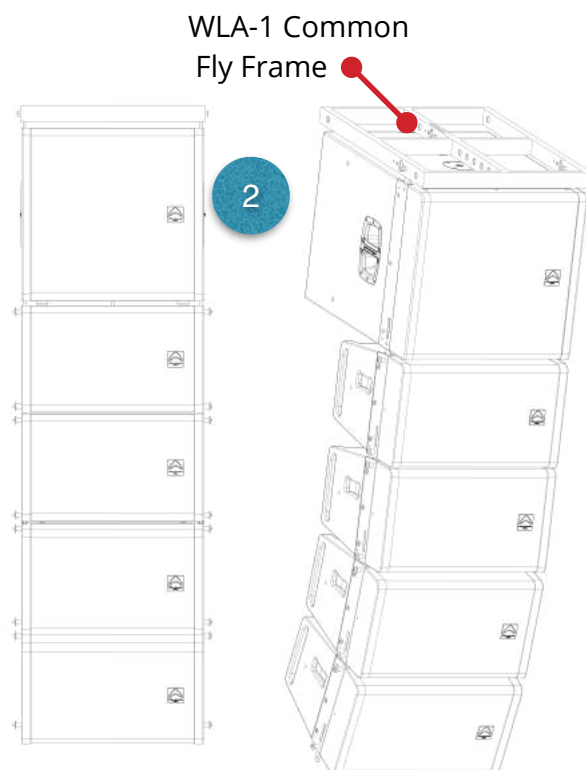
Double silicone spider

Configurations



Use an optional **SP-4 pole** to connect the 18" subwoofer to a 12" or 15" element. These have dual angle 35 mm pole sockets to ensure the best coverage for the event.

Note : Always ensure the floor is level and that all local and common sense safety rules are respected.



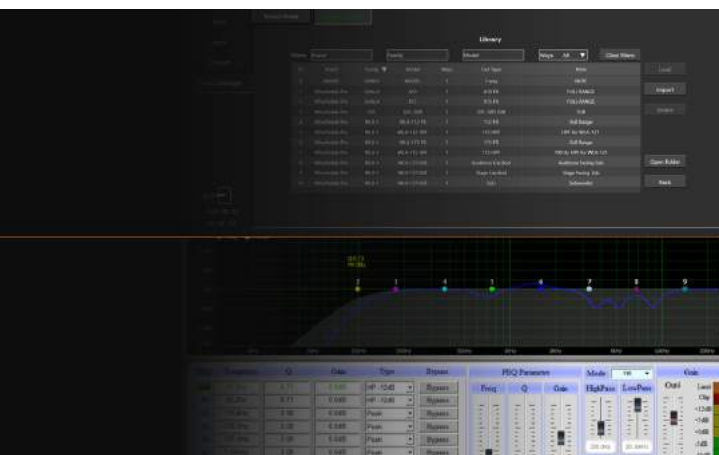
Use the optional **WLA-1 Common Fly Frame** to fly WLA-118SUB (A) with WLA-115 (A) or WLA-112 (A) elements as a traditional flown array.

Note : WLA-1 Common Fly Frame supports up to 3 pcs of WLA-118SUB (A). WLA-118SUB (A) will not fly with WLA-121SUB (A).

Don't forget the SC-48 FIR

The WLA-1 series passive models are supported with presets which can be used in SC-48 FIR and the DP-F / N series of amplifiers.

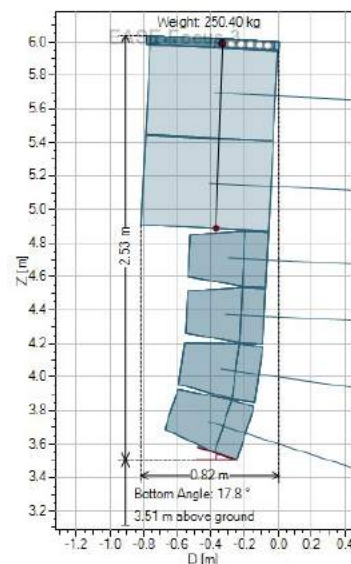
Simply download the latest Wharfedale Pro Preset Library.zip from our website.



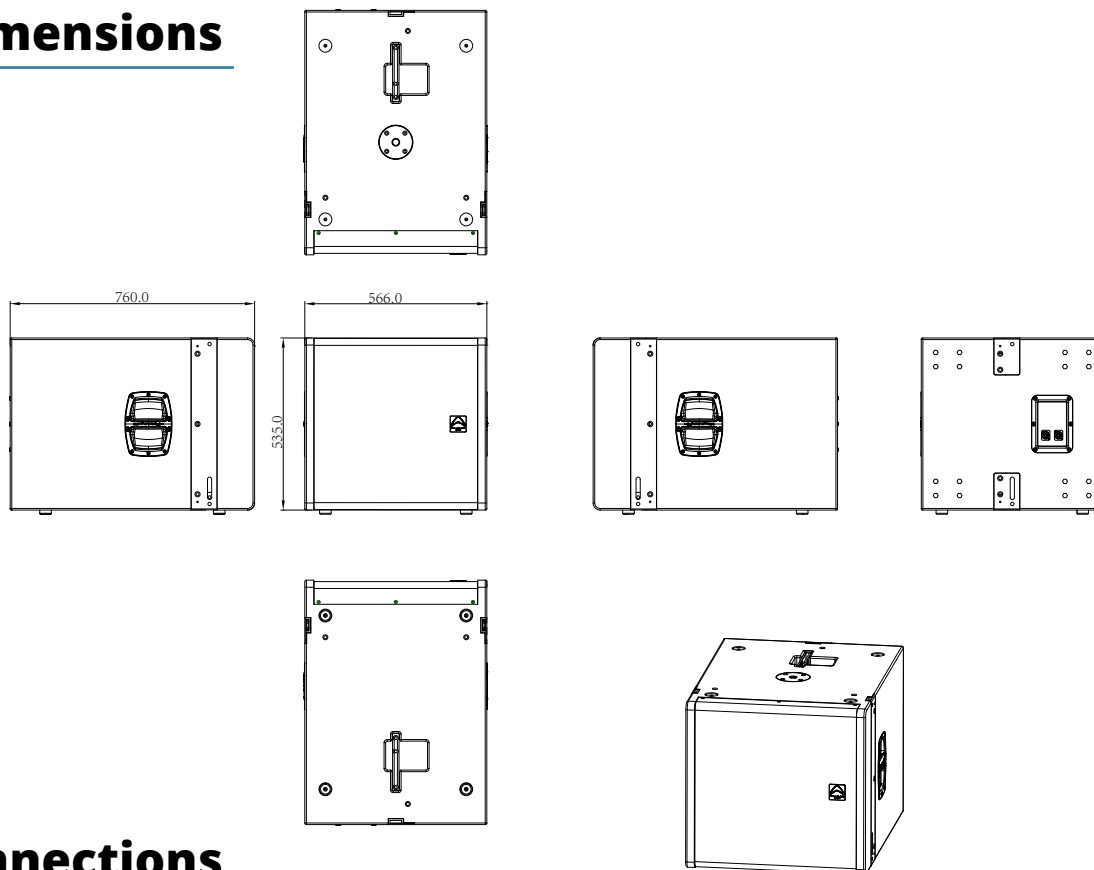
.gll files for download

The WLA-1 series is supported with .gll files for download.

Simply download the latest Wharfedale Pro Ease Library.zip from our website.



Dimensions



Connections

WLA-118SUB



WLA-118SUBA



SPECIFICATIONS



Model Name	WLA-121SUB	WLA-118SUB
Design	Subwoofer	Subwoofer
System Type	21" Subwoofer	18" Subwoofer
Configuration	Single Subwoofer	Single Subwoofer
Frequency Response (+/-3 dB)	25 Hz - 100 Hz	35 Hz - 125 Hz
Frequency Range (- 10 dB)	18 Hz - 125 Hz	28 Hz - 160 Hz
Sensitivity 2.83 V/1 m	103 dB*	103 dB*
Calculated Maximum SPL @ 1 m	141 dB*	141 dB*
System Peak SPL	147 dB**	147 dB**
System Rated Impedance	4 Ω	4 Ω
*	level at 1 m under half space conditions using pink noise with crest factor 2, with dedicated preset.	
**	level at 1 m under half space conditions using pink noise with crest factor 4, with dedicated preset.	
Low Frequency Transducer		
Size	545 mm / 21"	470 mm / 18"
Voice Coil Size	101.6 mm / 4.0" QUATTRO (4 layers)	101.6 mm / 4.0" DUO in/out voice coil
LF Frame Material	Aluminium	Aluminium
Special Features	Aluminium demodulating ring Waterproof LF cone Malt Cross® TCS	Aluminium demodulating ring Waterproof LF cone Malt Cross® TCS
Power(AES2)		
System Continuous Power (W)	1600	1600
System Programme Power (W)	3200	3200
System Peak Power (W)	6400	6400
Crossover Frequency	100 Hz	100 Hz
Recommended HPF = BW 18 dB/oct.	20 Hz	30 Hz
Input Connector	2 x speakON compatible	2 x speakON compatible
Rigging & Hardware:	3 points for rigging	3 points for rigging
Vertical Splay angle range:	/	/
Horizontal Splay angle	/	/
Optional Accessories	WLA-1 Common Fly Frame	WLA-1 Common Fly Frame
Hardware		
Stand pole:	M20 Pole mount	M20 Pole mount
Handles:	2 side (4 pcs) + 2 (top / bottom)	1 side (2 pcs)
Enclosure		
Cabinet Type	Rectangular	Rectangular
Enclosure Material and finish	18 mm plywood / Rhino Rock	18 mm plywood / TOUGH-TONE
Colour	Black paint	Black paint
Grille Material & Finish	Powder coated perforated steel	Powder coated perforated steel
Dimensions - Unpacked:		
Height Front	820 mm / 32.3"	535 mm / 21.1"
Height Rear	/	/
Width	566 mm / 23.4"	566 mm / 23.4"
Depth	760 mm / 29.9"	760 mm / 29.9"
Dimensions - Packed:		
Height	895 mm / 35.2"	630 mm / 24.8"
Width Front	656 mm / 25.8"	656 mm / 25.8"
Width Rear	/	/
Depth	850 mm / 33.5"	850 mm / 33.5"
Weight		
Net Weight	70.5 Kg	56.2 Kg
Gross Weight	76.5 Kg	64.4 Kg



Errors and omissions excepted (E&OE) : Wharfedale Pro : 2023

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SPECIFICATIONS



Model Name

System Typology
System Type
Configuration
Frequency Response (+/-3 dB)
Frequency Range (- 10 dB)
Sensitivity 2.83 V/1 m
Calculated Maximum SPL @ 1 m
System Peak SPL

*

**

Signal Processing

Preset list

WLA-121SUBA

Subwoofer
Active 21" Subwoofer
Single Subwoofer
25 Hz - 100 Hz
18 Hz - 125 Hz
103 dB*
140 dB*
147 dB**
level at 1 m under half space conditions using pink noise with crest factor 2, with dedicated preset.
level at 1 m under half space conditions using pink noise with crest factor 4, with dedicated preset.
DSP based, 8 presets

A) 1 SPKR 80 Hz LPF
B) 1 SPKR 100 Hz LPF
C) >2 SPKR 80 Hz LPF
D) >2 SPKR 100 Hz LPF
E) CARDIOID AUDIENCE
F) CARDIOID STAGE
G) CUSTOM
H) CUSTOM

WLA-118SUBA

Subwoofer
Active 18" Subwoofer
Single Subwoofer
35 Hz - 125 Hz
28 Hz - 160 Hz
103 dB*
140 dB*
147 dB**
level at 1 m under half space conditions using pink noise with crest factor 2, with dedicated preset.
level at 1 m under half space conditions using pink noise with crest factor 4, with dedicated preset.
DSP based, 8 presets

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D) >2 SPKR 100 Hz LPF
E) CARDIOID AUDIENCE
F) CARDIOID STAGE
G) CUSTOM
H) CUSTOM

Amplifiers

Amplifier Design
Power Rating:
Thermal Protection
Low Line Voltage Shut Down
Driver Protection
DC and Short Protection
Clip Limiter
Limiter Indicator
Signal Indicator
Power/Active Indicator
Find Function Indicator
Input Sensitivity
Maximum Input Level
Input Impedance
AC Power details - Power Supply
Connectors
Input Connector
Link Connector
UPDATE
NETWORK (RS485)
AC Power Options

Class D
4400 W Peak,
2200 W Continuous
Amplifier Shut Down. Auto Reset
60% Nominal Line Voltage
RMS, Peak Limiters and DC
Yes
Yes
Red LED
Green LED
White LED
Blue LED
+4 dBu
+18 dBu
Balanced:10 KΩ
High Efficiency Dual Switching Mode Power Supply
Balanced socket XLR
Balanced pin XLR
USB Type B
RJ45
AC 100-120 V~ and 220-240 V~, 50/60 Hz Automatic

Class D
4400 W Peak,
2200 W Continuous
Amplifier Shut Down. Auto Reset
60% Nominal Line Voltage
RMS, Peak Limiters and DC
Yes
Yes
Red LED
Green LED
White LED
Blue LED
+4 dBu
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High Efficiency Dual Switching Mode Power Supply
Balanced socket XLR
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USB Type B
RJ45
AC 100-120 V~ and 220-240 V~, 50/60 Hz Automatic

Special Features

Aluminium demodulating ring
Waterproof LF cone
Malt Cross® TCS
3 points for rigging
/
/
WLA-1 FLY FRAME
M20 Pole mount
2 side (4 pcs) + 2 (top / bottom)

Enclosure

Cabinet Type
Enclosure Material and finish
Colour
Grille Material & Finish

Rectangular
18 mm plywood / TOUGH-TONE
Black paint
Powder coated perforated steel

Aluminium demodulating ring
Waterproof LF cone
Malt Cross® TCS
3 points for rigging
/
/
WLA-1 FLY FRAME
M20 Pole mount
1 side (2 pcs)

Rectangular
18 mm plywood / TOUGH-TONE
Black paint
Powder coated perforated steel

Dimensions - Unpacked:

Height Front
Height Rear
Width
Depth

535 mm / 21.1"
/
566 mm / 23.4"
760 mm / 29.9"

Dimensions - Packed:

Height
Width Front
Width Rear
Depth

630 mm / 24.8"
656 mm / 25.8"
/
850 mm / 33.5"

Weight

Net Weight
Gross Weight

74.0 Kg
80.0 Kg

59.8 Kg
68 Kg



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