



Your full user manual can also be downloaded from www.wharfedalepro.com

WLA-118SUBA

QUICK START GUIDE

Congratulations on the purchase of your WLA-118SUBA. We take great pride in engineering and building every Wharfedale Pro product and wish to thank you for entrusting us with your audio.

From the time Gilbert Briggs built his first loudspeaker in 1932, to the present day, we have maintained the same standard of quality in components, workmanship and performance.

Please take the time to read this guide completely in order to get the most from your new system.

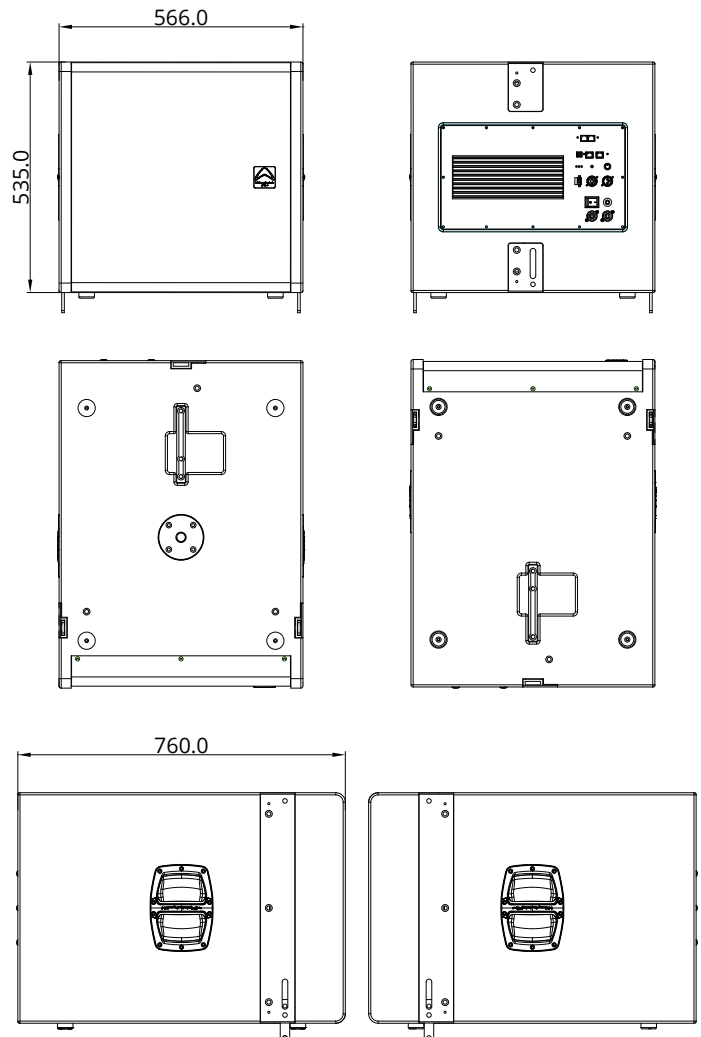
Specifications

Model Name	WLA-118SUBA
System Typology	Subwoofer
System Type	Active 18" Subwoofer
Configuration	Single Subwoofer
Frequency Response (+/-3 dB)	35 Hz - 125 Hz
Frequency Range (-10 dB)	28 Hz - 160 Hz
Sensitivity 2.83 V/1 m	103 dB*
Calculated Maximum SPL @ 1 m	136 dB*
System Peak SPL	142 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.
Signal Processing	DSP based, 8 presets
Preset list	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
Amplifiers	Class D
Amplifier Design	4400 W Peak, 2200 W Continuous
Power Rating:	Amplifier Shut Down, Auto Reset
Thermal Protection	60% Nominal Line Voltage
Low Line Voltage Shut Down	RMS, Peak Limiters and DC
Driver Protection	Yes
DC and Short Protection	Yes
Clip Limiter	Red LED
Limiter Indicator	Green LED
Signal Indicator	White LED
Power/Active Indicator	Blue LED
Find Function Indicator	+4 dBu
Input Sensitivity	+18 dBu
Maximum Input Level	Balanced: 10 KΩ
Input Impedance	High Efficiency Dual Switching Mode Power Supply
AC Power details - Power Supply	Connectors
	Input: Balanced socket XLR
	Link: Balanced pin XLR
	UPDATE: USB Type B
	NETWORK (RS485): RJ45
	AC Power Options: AC 100-120 V~ and 220-240 V~, 50/60 Hz Automatic
Special Features	Aluminium demodulating ring
	Waterproof LF cone
	Malt Cross® TCS
Rigging & Hardware:	3 points for rigging
Vertical Splay angle range:	/
Horizontal Splay angle:	/
Accessories:	WLA-1 FLY FRAME
Stand pole:	M20 Pole mount
Handles:	1 side (2 pcs)
Enclosure	
Cabinet Type	Rectangular
Enclosure Material and finish	18 mm plywood / TOUGH-TONE
Colour	Black paint
Grille Material & Finish	Powder coated perforated steel
Dimensions - Unpacked:	
Height Front	535 mm / 21.1"
Height Rear	/
Width	566 mm / 23.4"
Depth	760 mm / 29.9"
Dimensions - Packed:	
Height	630 mm / 24.8"
Width Front	656 mm / 25.8"
Width Rear	/
Depth	850 mm / 33.5"
Weight	
Net Weight	59.8 Kg
Gross Weight	68 Kg

Product Features

- Duo layer 18" Beyma driver
- Tough-Tone paint finish
- Integral side and back 3-point rigging system
- Premium Baltic birch construction
- .gll files available for download
- Internal DSP
- Versatile and practical
- Use in conjunction with the 21" sub for infrabass AND punch
- EASE .gll files available for download

Overview



Note : Specifications may be subject to change without notice.

INPUT: Balanced Combi jack / XLR input

LINK: Balanced line output

PRESET: DSP Preset control selector

UPDATE: USB Input for software update. Service staff only.

NETWORK: Network connection using RS485 protocol. Download the software from www.wharfedalepro.com

AC IN: AC Input using PowerCon connector

AC LINK: For cascade power to other active loudspeakers in the system. DO NOT EXCEED A TOTAL OF 20 A (continuous current powerCon limit) for each line.

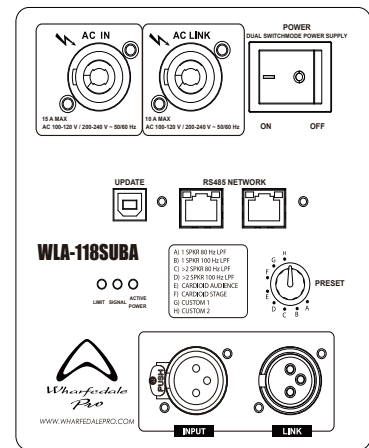
POWER: Power on switch. Only power on after all audio connections have been made.

Control software.

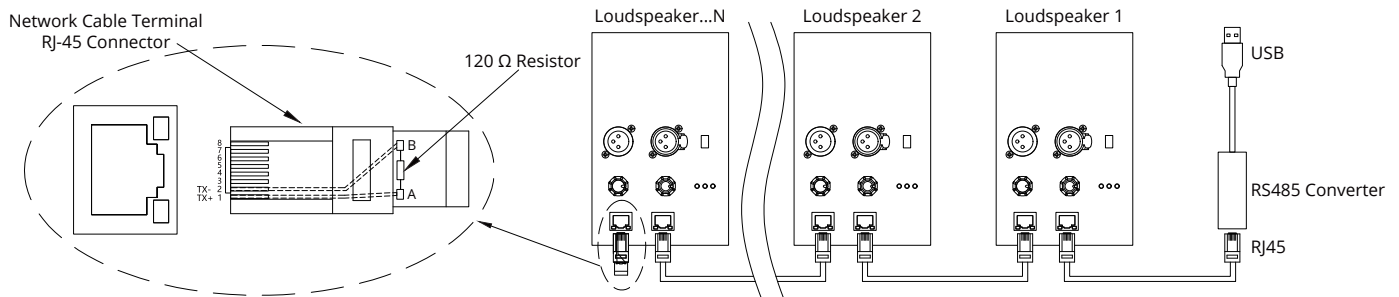
The network connection uses RS485 protocol and gives GUI control over the DSP parameters of each element in the array.

<https://www.wharfedalepro.com/download/wla-a-control-software/>

For easy connection to the computer, the optional USB-RS485-RJ45 convertor can be used. This convertor allows for connection between the PC and the network of active array elements.



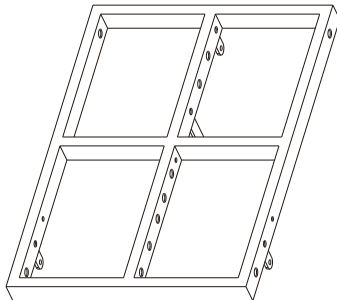
RS485 Network cable interface description



RS485 Network total length can be improved by using a 120 Ohm resistor between pins 1 and 2 on an RJ45 connector. This should be connected to the spare network port on the final speaker in the network.

Optional hardware

WLA-1 Common Fly Frame



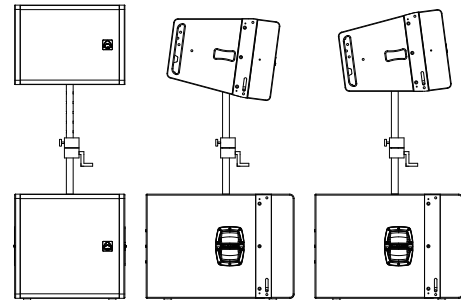
Use the optional WLA-1 Common Fly Frame to fly WLA-118SUB (A) with WLA-115 (A) or WLA-112 (A) elements as a traditional flown array.

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).

SP-4 Pole



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.

For system design it is recommended to use EASE software. (<https://www.afmg.eu>)

The EASE library can be downloaded from <https://www.wharfedalepro.com/download/wharfedale-pro-ease-library/>

WHARFEDALE PRO LIMITED WARRANTY

Wharfedale Pro products are warranted of manufacturing or material defects for a period of three years from the original date of purchase. In the event of malfunction, contact your authorised Wharfedale Pro dealer or distributor for information. Please be aware that the warranty details may differ from country to country. Contact your dealer or distributor for information (available at www.wharfedalepro.com). These terms do not infringe your statutory rights.



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