



## WLA-218BX Dual 18" Sub

PRELIMINARY INFORMATION. SPECIFICATIONS AND IMAGES SUBJECT TO CHANGE.



### ***There's no going back !***

#### **Low frequencies usually go everywhere.**

A lot of output energy can end up in places where the audience do not benefit from it. Having great low frequencies behind the stage is a waste of power and energy.

It's for this reason the new WLA-218BX can be easily deployed in an Inverted Stack Gradient Array (iSGA) configuration.

WLA-218BX uses the acclaimed Reason-X 18" subwoofer drivers. With 4.0" voice coils and an impedance boost around 35 Hz, these efficient drivers simply deliver extreme bass.

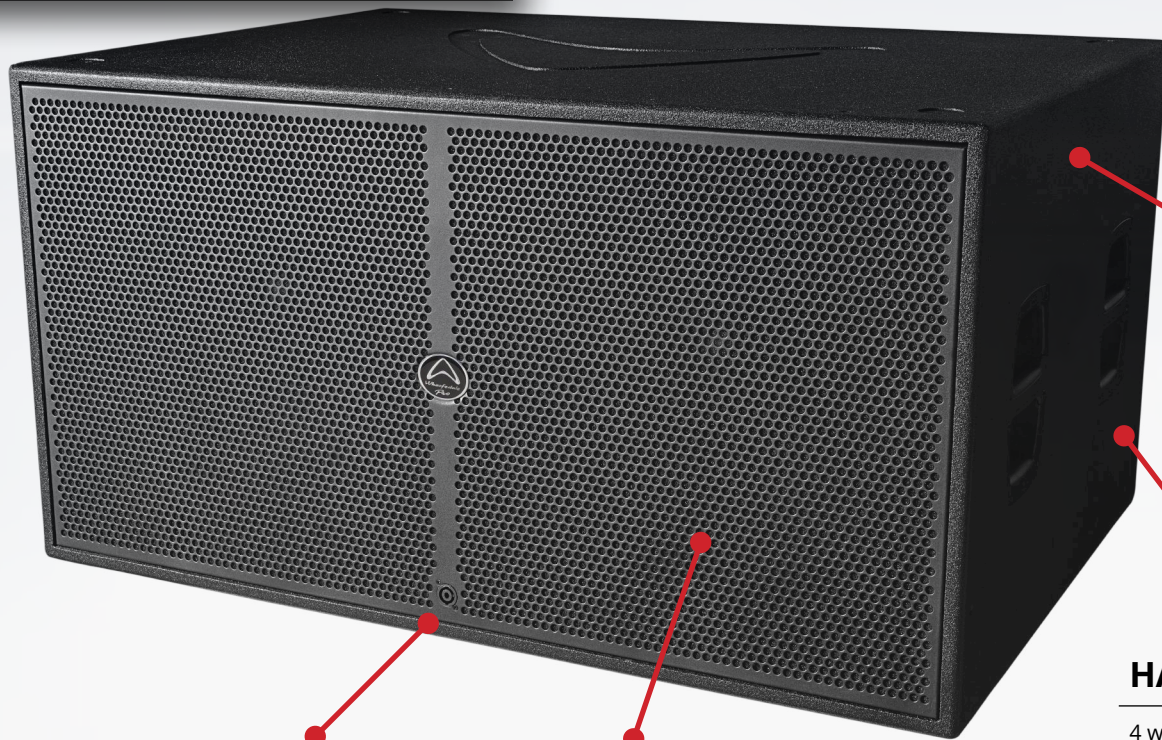
And, when used in the iSGA configuration, they deliver that bass directly into the face of the audience.

- Front speakON connector
- Inverted Stack Gradient Array configuration
- 4.0" voice coils using acclaimed Reason-X LF drivers
- 2000 watts AES (RMS)
- 4000 watts Programme
- 8000 watts Peak
- 18 mm Plywood construction
- A powerful sub with cardioid functionality

**COMING SOON - Q3 2021**



## UP CLOSE



### FRONT SPEAKON

For iSGA (Inverted Stack Gradient Array) configurations

### DUAL 18"

2 x 18" Custom subwoofers from the Reason-X series

### 18mm Plywood

18mm premium Baltic birch plywood construction. Solid materials for solid sub-bass

### HANDY HANDLES

4 well-shaped carry handles make it easier to carry!

## DRIVER DESIGN

### Custom design - upgraded driver

The driver inside the WLA-218BX has some special features.

#### 102.6 diameter voice coil.

That's OVER 4.0" but we say 4.0" because of number rounding

#### Double-layer spider bonding.

Updated glue is used. This bonding can eliminate brittle cracking and reduces harmonic distortion.

#### 112 g Membrane.

The WLA-218BX driver has a heavier membrane which can withstand more power without breaking.

#### 31 mm voice coil cavity.

A larger internal cavity for the coil windings allows WLA-218BX to have lower response by 5 Hz.

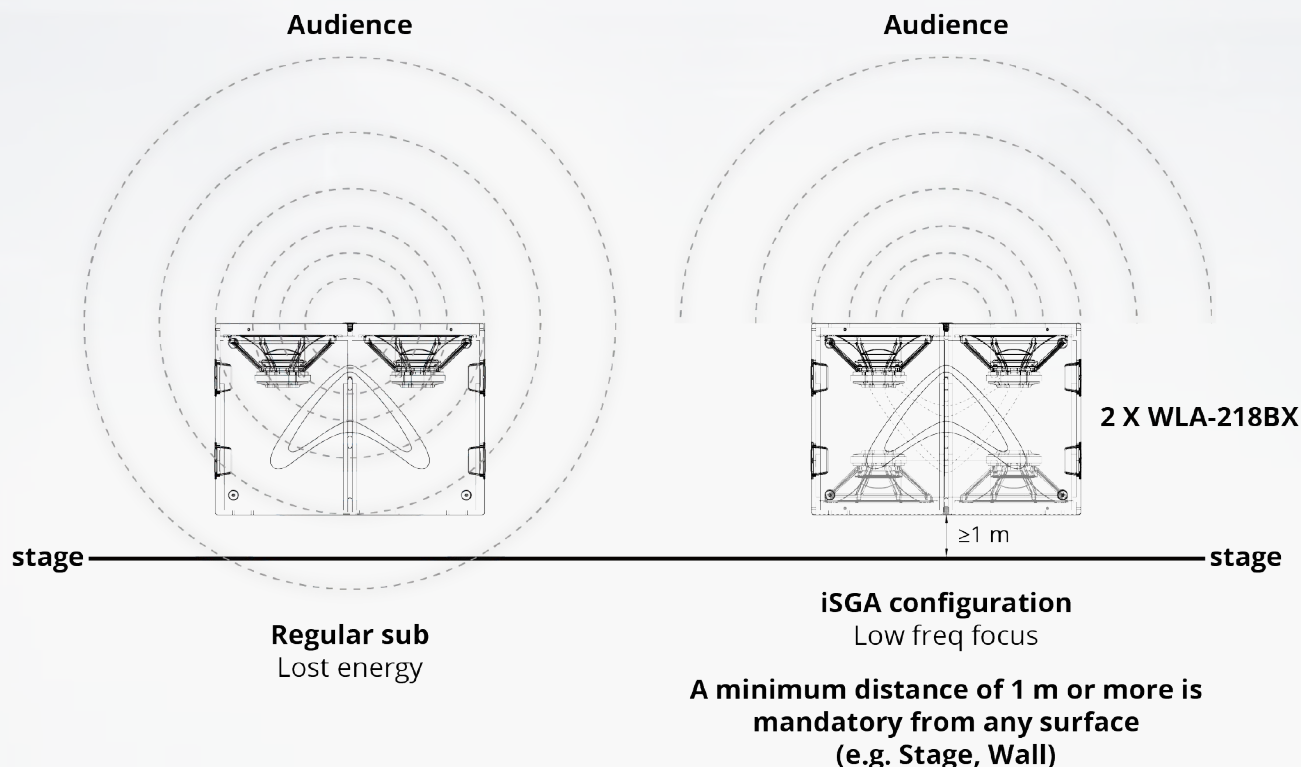
#### 6.2 ohm impedance.

The impedance peak is higher in the Reason-X driver at 35 Hz. This results in superior low end strength.



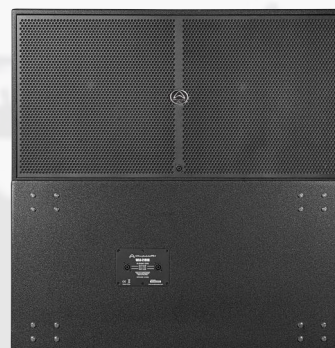
# iSGA CONFIGURATION

## Aerial view



When deployed in an **Inverted Stack Gradient Array (iSGA)** configuration, WLA-218BX really moves some air !

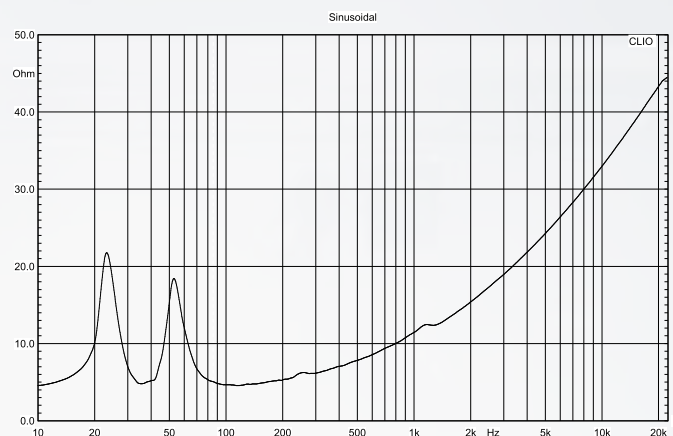
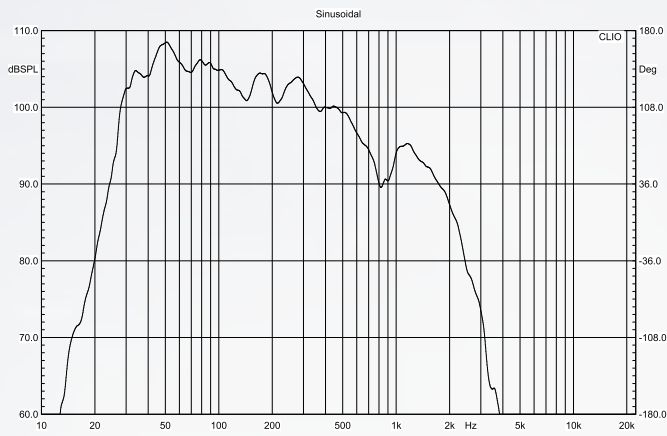
A front grille speakON compatible connector means that the Gradient Array can easily be built with other subwoofers. Working together, the phase will combine resulting in more directional low-end frequencies which focus on the audience, rather than backstage.



A Versadrive DSP (such as SC-48 FIR) or a DP-N series amplifier with internal FIR filtering is highly recommended to get the most from the system. Phase, EQ and filtering should be applied and this way, the physics of the system can be truly optimised - delivering that sub-bass .....directly into the faces of the audience!



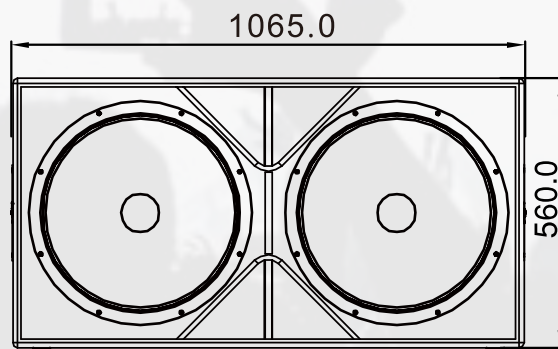
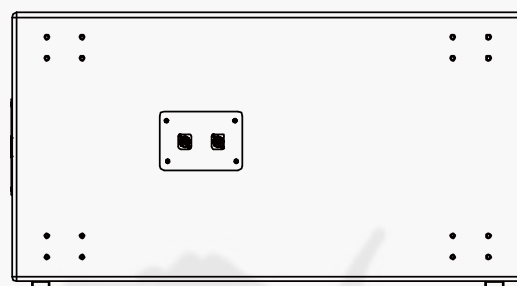
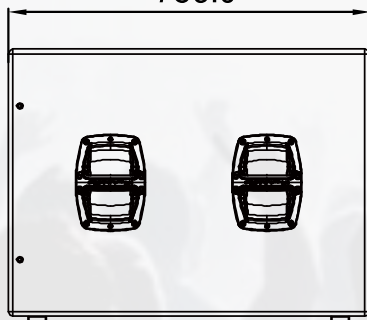
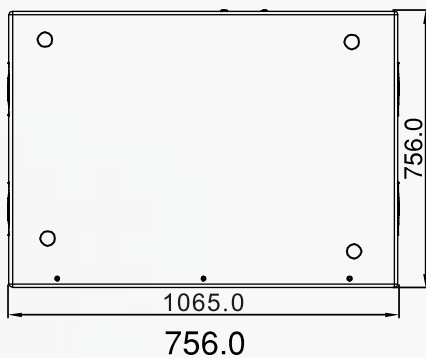
# MEASUREMENTS



**2000 W AES (RMS)**

**4000 W Programme**

**8000 W Peak**



FRONT

## WHEELY PRACTICAL

### OPTIONAL CASTERS

For easy transportation, WLA-218BX is compatible with Wharfedale Pro caster wheels.



# SPECIFICATIONS



Model Name	WLA-218BX
System Type	Passive
Configuration	Dual 18" Subwoofer
Frequency Response (+/-3 dB)	30-800 Hz
Frequency Range (-10 dB)	25-800 Hz
Sensitivity 2.83V/1M	109 dB
Calculated Maximum SPL @1 Meter	148 dB
System Rated Impedance	4 Ω
<b>Low Frequency Transducer</b>	
Size	2 x 470 mm / 18"
Voice Coil Size	102 mm / 4.0"
LF Magnet Material	Ferrite
LF Frame Material	Aluminium
Rated Impedance	2 x 8 Ω
LF Power re: AES2-2012	2 x 1000 W
Nominal Impedance	4 Ω
<b>Power</b>	
System AES (RMS) Power	2000 watts
System Programme Power	4000 watts
System Peak Power	8000 watts
Crossover Frequency	
Input Connectors	3 x speakON NL4 (speakON compatible) (2 rear, 1 front)
Rigging	No
Pole Mount	No
Handles	4 on Sides
Enclosure	
Cabinet Type	Rectangle
Enclosure Material and finish	18 mm plywood
Colour Options	black paint
Grille Material & Finish	steel
<b>Dimensions - Unpacked (mm / inches):</b>	
Height	560 mm / 22.0"
Width Front	1065 mm / 41.9"
Width Rear	1065 mm / 41.9"
Depth	756 mm / 29.8"
<b>Dimensions - Packed (mm / inches):</b>	
Height	638 mm / 25.1"
Width Front	1138 mm / 44.8"
Width Rear	1138 mm / 44.8"
Depth	829 mm / 32.6"
<b>Weight</b>	
Net Weight	75.0 kg / 165 lbs
Gross Weight	87.7 kg / 192.9 lbs

