

NEW PRODUCT INFORMATION

WLA-210X WLA-210XSUB

Dual 10" Passive Line Array System

The new WLA-210X line array system keeps the same design philosophies as the acclaimed WLA-25 and WLA-28 systems from Wharfedale Pro. Portable, powerful and versatile line array solutions which are ideal for both touring and fixed installation applications.

Each WLA-210X element uses a pair of custom 10" Wharfedale Pro highpower low-frequency drivers, while the high frequencies are handled by a premium 3.0" titanium diaphragm, neodymium magnet compression driver coupled to a $100^{\circ} \times 10^{\circ}$ waveguide.

The waveguide exit extends nearly to the top and bottom of the enclosure to create a continuous acoustical source - resulting in greatly reduced destructive interaction within the array.

The WLA-210X element also features Passive and Bi-amp modes which allows for complete system control. The bi-amp feature enables the system designer to select the best amplification for each driver component within the array. Such control, when used with external signal processing such as the Wharfedale Pro Versadrive series, gives the engineer the ultimate in system fine tuning. This, in turn, leads to the best audio output.

The WLA-210XSUB features dual 15" LF drivers with massive 4.0" voice coils. Specifically created for use with WLA-210X, this subwoofer can be flown or ground stacked easily as a result of its comprehensive rigging hardware.

Premium materials are used throughout the system. The enclosure is constructed of Baltic birch plywood and is coated in a premium and durable Rhino Rock paint. To keep the weight to a minimum and prevent rust, suspension fittings are made of aluminium.

An elegantly simple 3-point suspension system combined with light weight, compact size and excellent handling ergonomics mean that an array can easily be deployed. With the WLA-210X Common Fly frame, systems can be configured as flying or ground stacked in multiple combinations.

WLA-210X | WLA-210XSUB WLA-210X Common Fly Frame

Shipping from MARCH 2019





- **Mage power handling**
- 🗹 Bi-amp modes
- Birch plywood construction
- Custom Wharfedale Pro transducers

CONFIGURATIONS

WLA-210X Common Fly Frame

Arrays can be assembled using only WLA-210X line array elements OR with WLA-210XSUB Subwoofers at the top of the array.

The WLA-210X Common Fly frame supports up to 10 x WLA-210X elements and 1 x WLA-210XSUB OR up to 12 x WLA-210X elements with a safety factor of 12.







Optimised Ground Stacking

WLA-210X rigging doubles up as an optimised ground stacking system, using the WLA-210XSUB subwoofer as a base.

Arrays of WLA-210X line array elements can be aimed downwards by as much as 10° to cover audience areas close to a stage, as well as upward by as much as 10° in order to better cover distant balcony seating areas.



Bi-amp and Passive modes

A switch on the WLA-210X input panel selects between either of two operating modes: Passive mode (single amplifier) or Bi-amp mode (separate low and high frequency amplifiers).

In Passive mode, the internal crossovers of the WLA-210X loudspeakers divide the audio signal into the separate frequency ranges for each driver. In Bi-amp mode separate (discrete) amplifiers can be used to power the low frequency and high frequency drivers.

The Versadrive series are ideal for passive & bi-amp mode operation and control.





SPECIFICATIONS

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Model Name	WLA-210X	WLA-210XSUB	WLA-210X Common Fly frame
System Type	Passive	Passive	
Configuration	Two-way	Dual 15" Subwoofer	
Frequency Response (+/-3dB)	65-20kHz	39-900Hz	
Frequency Range (-10dB)	60-20kHz	35-1.5KHz	
(Passive) Sensitivity 2.83v/1m	102dB	108dB	
(Passive) Calculated Maximum SPL @1m	138dB	145dB	
(Bi-Amp) Sensitivity 2.83v/1m	HF:112dB/LF:100dB	-	
(Bi-Amp) Calculated Maximum SPL @1m	HF:138dB/LF:135dB	-	
System Rated Impedance	16Ω	4Ω	
Low Frequency Transducer			
Size (mm / inches)	260mm / 10''	381mm / 15"	
Voice Coil Size (mm / inches)	65mm / 2.5"	100mm / 4.0"	
LF Magnet Material	ferrite	ferrite	
LF Frame Material	aluminium	aluminium	
Rated Impedance	8Ω x 2	8Ω x 2	
I F Power re AFS2-2012	400W x2	600W x 2	
High Frequency Transducer			
HF Driver Type:	Compression Driver	-	
Coil Size (mm / inches)	75mm / 3"		
Exit Size (mm / inches)	1.4"	-	
HF Magnet Material	NdFeB	_	
Diaphragm Material	Titanium	_	
Rated Impedance	16Ω	-	
HF Power re:AES2-2012	80W	-	
Waveguide Type	sguare	-	
Nominal Coverage (H x V)	100° x 10°	-	
System Continuous Power (w)	HE:90W/LE:800W	1200W	
System Programme Power (w)	HE:180W/LE:1600W	2400W	
System Peak Power (w)	HF:360W/LF:3200W	4800W	
Crossover frequency	1.5kHz		
Bi-Amp / Passive Mode Switch	Yes		
Input Connector	2xSpeakon	2xSpeakon	
Rigging	3 points for rigging	3 points for rigging	
pole mount	No	No	
handles	Yes	Yes	
Enclosure			
cabinet type	Trapezoid	Square	
Enclosure Material and finish	15mm.18mm plywood	18mm plywood	
Colour Options	black paint	black paint	
Grille Material & Finish	steel	steel	
Dimensions - Unnacked (mm / inches):			
Height	314mm/12.4"	485mm/19.1"	95mm/3.74"
Width Front	760mm/29.9"	760mm/29.9"	766mm/30.2"
Width Rear	760mm/29.9"	760mm/29.9"	766mm/30.2"
Depth	518.5mm/20.4"	716mm/28.2"	780mm/30.7"
Dimensions - Packed (mm / inches):			
Height	404mm/15.9"	575mm/22.6"	150mm/5.9"
Width Front	855mm/33 7"	850mm/33.5"	796mm/31 4"
Width Rear	855mm/33.7"	850mm/33.5"	796mm/31.4"
Denth	594mm/23.4"	806mm/31 7"	810mm/31 9"
Weight	5541111/25.4	0001111/011/	
Net Weight (kg / lbs)	34.8kg/76.6lbs	63.0kg/138.4lbs	15.86kg/34.9lbs
Gross Weight (kg / lbs)	38.5kg/84.7lbs	68 0kg/149 6lbs	18.72kg/41.2lbs
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Errors and omissions excepted (E&OE) : Wharfedale Pro : 2019

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