NEW PRODUCT INFO

PRELIMINARY INFORMATION. SPECS & IMAGES SUBJECT TO CHANGE.

WLA-1A

Active Hybrid Curvature Array

The WLA-1 Hybrid Curvature Array system.....is now.....ACTIVE.

The new WLA-1A active system incorporates all the incredible hardware features of its passive brother - the WLA-1 System. The EVO-Fold waveguides, the drivers created by Beyma in Europe and the Hybrid Curvature Array configuration are all included....but the new WLA-1A Active now brings powerful internal amplification and refined internal DSP processing to the party.

It has never been this easy to achieve stunning sonic results in a huge variety of venues.

WLA-112A - 12" coaxial element

680 W Continuous

1360 W Peak

WLA-115A - 15" coaxial element

830 W Continuous

1660 W Peak

WLA-121SUBA - 21" active subwoofer

2200 W Continuous

4400 W Peak



AVAILABILITY

WLA-1A System

Shipping from Q3 2023



FEATURES

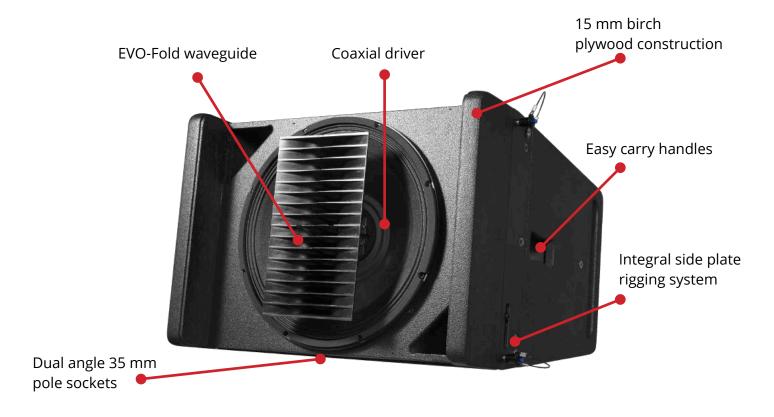
- Internal amplification
- · Internal DSP including FIR filters
- Network connection using RS485 protocol
- 12" and 15" coaxial drivers from Beyma
- 21" Subwoofer with 4.0" Quattro voice coil
- EVO-Fold waveguide
- · Integral side plate rigging
- Premium Baltic birch construction
- .gll files available for download
- Versatile with comprehensive hardware accessories



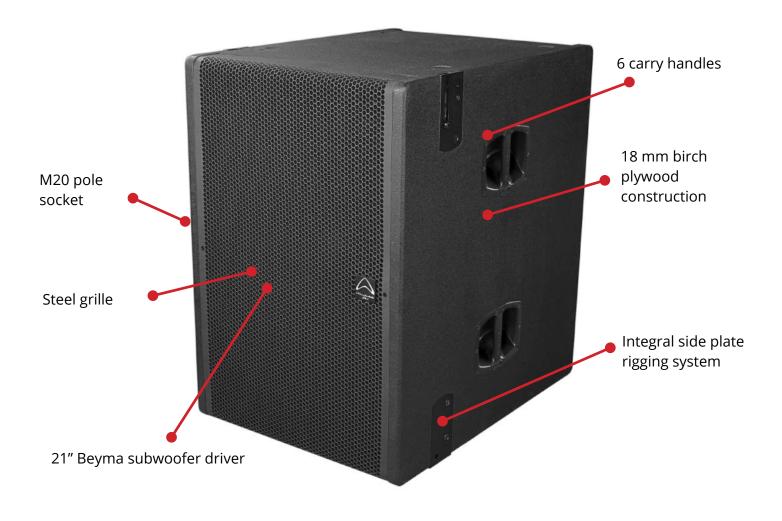
The 12" and 15" elements use coaxial drivers from Beyma in Europe.

This coaxial design gives consistent coverage on both Horizontal and Vertical planes - while competitive traditional constant curvature two way systems do not have consistent coverage in one axis at least by design.

WLA-112A and WLA-115A coaxial design gives consistent coverage and is unique.



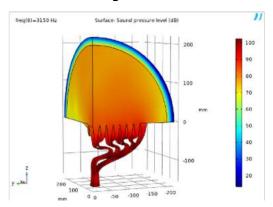
21" SUBWOOFER

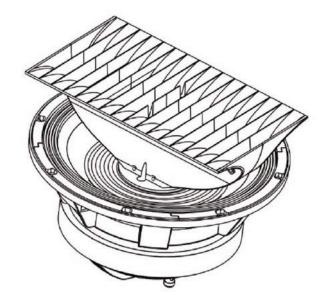




EVO-Fold

A work of art





EVO-Fold reduces the usual phase issues that traditional constant curvature line arrays have due to them having the drive units physically some distance apart in the array. One specially-designed coaxial mid-high frequency driver is loaded to a unique EVO-Fold horn. The EVO-Fold horn combines a unique folded and manifold design. The most advanced FEM technology has been used to create this.

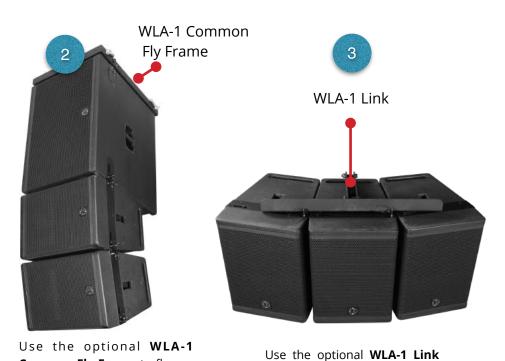
The high-mid energy exits produce a uniphasic sound in the widest range of frequencies. And visually, the detail of the EVO-Fold waveguide is a work of art.

Patents in progress for Appearance, Utility and Invention. EVO-Fold is an exclusive Wharfedale Pro technology.

Configurations



Use an optional **SP-4 pole** to connect the 21" subwoofer to a 12" or 15" element. These have dual angle 35 mm pole sockets to ensure the best coverage for the event.



Common Fly Frame to fly any

combination as a traditional

to create a horizontal array with WLA-112A or WLA-115A.

A 3 unit horizontal array has 60 V x 100 H dispersion

SPECIFICATIONS



with crest factor 4, with dedicated preset

WLA-112A
Hybrid Curvature Array
Active 12" coaxial Bi-Amplified

two-way 55 Hz - 20 KHz 101 dB 133 dB 139 dB**

EVO-Fold®

100° x 20°



with crest factor 4, with dedicated preset

Hybrid Curvature Array Active 15" coaxial Bi-Amplified two-way

42 Hz - 20 KHz 102 dB 135 dB 141 dB**

level at 1 m under free field conditions using pink noise level at 1 m under free field conditions using pink noise



WLA-121SUBA

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 prese

Class D

Nominal Coverage (H x V) Signal Processing

Model Name

System Type Configuration

System Typology

Frequency Response (+/-3 dB)

Calculated Maximum SPL @ 1 m

Frequency Range (- 10 dB)

Sensitivity 2.83 V/1 m

System Peak SPL

Waveguide Type

Preset list

Amplifiers

NETWORK (RS485)

AC Power Options

Rigging & Hardware:

Vertical Splay angle range: Horizontal Splay angle

Enclosure Material and finish

Grille Material & Finish

Dimensions - Packed:

Dimensions - Unpacked: Height Front

Special Features

Accessories: Stand pole:

Cabinet Type

Handles:

Colour

Height Rear

Width

Depth

Height Width Front

Depth Weight

Width Rear

Net Weight

DSP based, 8 FIR presets A) 1 to 2 SPKR 100 Hz HPF B) 3 to 4 SPKR 100 Hz HPF C) 5 to 6 SPKR 100 Hz HPF D) 1 SPKR E) 2 SPKR F) 3 to 4 SPKR G) 5 to 6 SPKR H) CUSTOM

DSP based, 8 FIR presets A) 1 to 2 SPKR 100 Hz HPF B) 3 to 4 SPKR 100 Hz HPF C) 5 to 6 SPKR 100 Hz HPF

D) 1 SPKR E) 2 SPKR F) 3 to 4 SPKR G) 5 to 6 SPKR H) CUSTOM

Balanced pin XLR

408 mm / 16.1".

302 mm / 11.8".

566 mm / 23.4"

543 mm / 16.5'

661 mm / 26.0"

630 mm / 24.8"

630 mm / 24.8"

490 mm / 19.3"

35.5 kg / 78.1 lbs

38.5 kg / 84.7 lbs

USB Type B

RJ45

Class D

EVO-Fold®

100° x 20°

DSP based,8 presets C) >2 SPKR 80 Hz LPF D) > 2 SPKR 100 Hz LPF E) CARDIOID AUDIENCE F) CARDIOID STAGE

Amplifier Design Class D 1360 W Peak (1200 W LF + 160 W HF), 680 W Continuous (600 W LF + 80 W HF) Thermal Protection Amplifier Shut Down, Auto Reset Low Line Voltage Shut Down Yes

60% Nominal Line Voltage Independent LF/ HF RMS and Peak Limiters **Driver Protection** DC and Short Protection Clip Limiter Yes Limiter Indicator Red LED Signal Indicator Green LED Power/Active Indicator White LED Find Function Indicator Blue LED +4 dBu Input Sensitivity Maximum Input Level +18 dBu Input Impedance

AC Power details - Power Supply High Efficiency Dual Switching Mode Power Supply Connectors Input Connector Balanced socket XLR Link Connector Balanced pin XLR UPDATE

3 points for rigging

Dual Angle -2.5° / +7.5°

0°- 5° - 10° - 15°

2 side / 2 back

332 mm / 13.1".

246.4 mm / 9.7".

566 mm / 22.3"

465 mm / 18.3"

661 mm / 26.0"

550 mm / 21.7"

550 mm / 21.7"

410 mm / 16.7"

30.4 kg / 66.9 lbs

32.8 kg / 72.2 lbs

15° WLA-1 FLY FRAME

USB Type B RJ45 AC 100-120 V~ and 220-240 V~, 50/60 Hz Automatic Copper Demodulating rings in both LF and HF units

1660 W Peak (1500 W LF + 160 W HF), 830 W Continuous (750 W LF + 80 W HF) Amplifier Shut Down, Auto Reset 60% Nominal Line Voltage Independent LF/ HF RMS and Peak Limiters Yes Yes Red LED Green LED

White LED Blue LED +4 dBu +18 dBu High Efficiency Dual Switching Mode Power Supply Balanced socket XLR

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 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 Aluminium demodulating ring

Waterproof LF cone Waterproof LF cone Shared High performing Ferrite magnet system design Malt Cross® TCS 3 points for rigging 3 points for rigging 0°-5° - 10° - 15° 15° WLA-1 FLY FRAME WLA-1 FLY FRAME

AC 100-120 V~ and 220-240 V~, 50/60 Hz

Trapezoid 15 mm plywood / Rhino Rock Black paint Powder coated perforated steel

Dual Angle -2.5° / +7.5° 2 side / 2 back Trapezoid 15 mm plywood / Rhino Rock Black paint Powder coated perforated steel

M20 Pole mount 2 side (4 pcs) + 2 (top / bottom) Rectangular 18 mm plywood / Rhino Rock Black paint Powder coated perforated steel

820 mm / 32.3" 566 mm / 23.4" 760 mm / 29.9" 895 mm / 35.2" 656 mm / 25.8" 850 mm / 33.5" 74.0 kg / 162.8 lbs 80.0 kg / 176 lbs



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