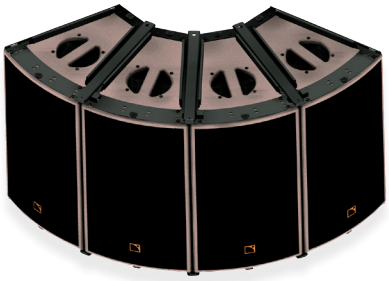
ARCS WIDE
ARCS FOCUS

CONSTANT CURVATURE WST® LINE SOURCES



The ARCS® WIDE and ARCS® FOCUS systems are based on two constant curvature enclosures ensuring distinct directivity pattern and SPL capabilities. Intended for medium-throw applications in rental productions and fixed installations, these line sources deliver remarkable acoustic properties and unmatched versatility for applications including FOH L/R systems, central clusters, side-fill monitors, distributed systems and complementary fills.
The main systems components consist of the following:

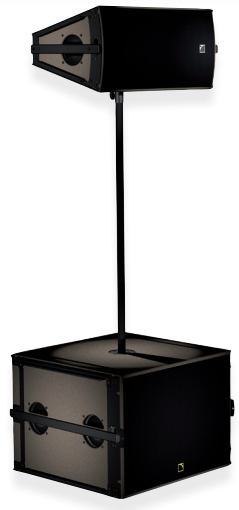
- ARCS® WIDE (H x V: 30° x 90°) element, wide coverage, operating from 55 Hz to 20 kHz;
- ARCS® FOCUS (H x V: 15° x 90°) element, focused energy, operating from 55 Hz to 20 kHz;
- SB18m low frequency extension, operating down to 32 Hz;
- LA4 or LA8 amplified controllers.

The ARCS® WIDE or ARCS® FOCUS line sources provide high SPL with perfect acoustic coupling, a solid LF performance and constant tonal balance over distance. Both systems can be deployed either as a horizontal array or as a vertical array.

In the coupling plane, the ARCS® WIDE and ARCS® FOCUS yield a razor-sharp directivity pattern, particularly valuable to sector audience fields while avoiding reflective surfaces. In the other plane, both systems provide a 90° smooth symmetric directivity pattern.

The ARCS® WIDE is suited to achieve an extensive coverage with few elements, offering a remarkably compact array preserving sightlines. The total coverage angle of an ARCS® WIDE line source is proportional to the number N of enclosures in the array, i.e. N x 30°.

The ARCS® FOCUS line source focuses the same acoustic energy within half of the coverage angle, i.e. N x 15°. The ARCS® FOCUS is therefore suited to achieve a narrower coverage, offering a higher SPL with a more extended throw than its sibling.



The ARCS® WIDE and ARCS® FOCUS can also be deployed in "WIFO" hybrid arrays for complex audience geometries. The dual directivity pattern and the various system configurations offered to the sound designer and system engineer allow a high level of creative freedom. Before installation, all these configurations can be acoustically and mechanically modeled with the SOUNDVISION 3D simulation software.

The amplified controllers offer an advanced and precise drive system for the ARCS® WIDE and ARCS® FOCUS enclosures. Both can be driven with the same preset. All L-ACOUSTICS amplified controllers feature the L-DRIVE, a thermal and over-excursion protection circuit.

Up to 253 L-ACOUSTICS® amplified controllers can be connected together via the Ethernet-based L-NET protocol. The LA NETWORK MANAGER software allows online remote control and monitoring of all the connected units, via a user-friendly and intuitive graphic interface, and features the Array Morphing EQ. This exclusive tool allows the engineer to quickly adjust the tonal balance of the system to reach a reference curve or to ensure consistency of sonic signature.

ARCS® WIDE AND FOCUS
SYSTEM COMPONENTS

ARCS WIDE[1,2]

Constant curvature WST® enclosure, 30°x90°
(provided with 2 coupling bars)

ARCS FOCUS[1,2]

Constant curvature WST® enclosure, 15°x90°
(provided with 2 coupling bars)

SB18m[1,2]

Dual bass reflex subwoofer
(provided with 2 coupling bars)

LA8/LA4/LA-NETWORK MANAGER[1]

Amplified controller with DSP
library and networking capabilities
Remote control software

WIFOLIFT[2,3]

Rigging bar for flying a horizontal ARCS®
WIDE/FOCUS array
Certified for up to 4 ARCS® WIDE/
FOCUS enclosures

WIFOBUMP[2,3]

Rigging frame for flying a vertical ARCS®
WIDE/FOCUS/SB18m array
Certified for up to 8 ARCS® WIDE/
FOCUS or SB18m

WIFOSOCK/CLAMP250[3]

Pole mount socket for
1 ARCS® WIDE/FOCUS enclosure
Clamp certified for up to
6 ARCS® WIDE/FOCUS or 4 SB18m

SOUNDVISION

3D acoustic and mechanical simulation software
dedicated to L-ACOUSTICS® products

1 See product spec sheet for more details. 2 Available in white and custom RAL colors. 3 Verify the mechanical conformity of any installation using SOUNDVISION.

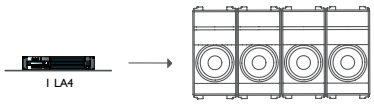
ARCS® WIDE AND FOCUS
SYSTEM CONFIGURATION

Two operating modes are available for the systems: **"FULL RANGE"** and **"LOW EXTENSION"**

FULL RANGE

This mode corresponds to the use of ARCS® WIDE/FOCUS enclosures in a standalone configuration. A single LA4 can drive up to 4 ARCS® WIDE/FOCUS from one or two inputs (up to 8 ARCS® WIDE/FOCUS per LA8).

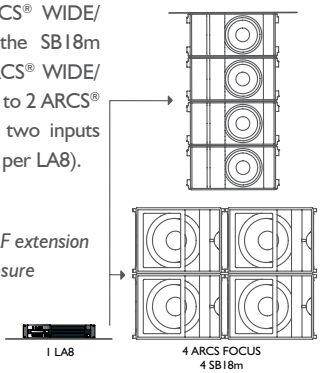
Preset:
[ARCS WIFO] - *line source*
[ARCS WIFO_FI] - *single enclosure*



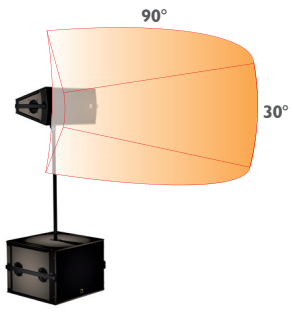
LOW EXTENSION

This mode corresponds to the use of ARCS® WIDE/FOCUS enclosures in combination with the SB18m subwoofer. The recommended SB18m : ARCS® WIDE/FOCUS ratio is 1:1. A single LA4 can drive up to 2 ARCS® WIDE/FOCUS and 2 SB18m from one or two inputs (up to 4 ARCS® WIDE/FOCUS and 4 SB18m per LA8).

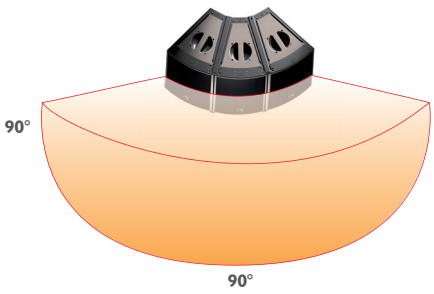
Preset:
[ARCS WIFO] + [SB18_60]] - *line source + LF extension*
[ARCS WIFO_FI] + [SB18_60] - *single enclosure + LF extension* (pole mount)



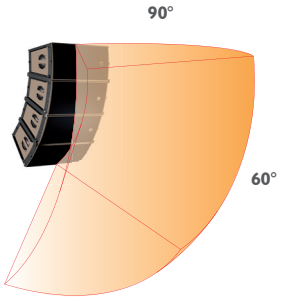
COVERAGE EXAMPLES



Pole mounted
1 ARCS® WIDE 90° x 30°



Horizontal / Ground-stacked or flown
3 ARCS® WIDE 90° x 90°



Vertical / Flown
4 ARCS® FOCUS 90° x 60°