

KARAI SYSTEM

MODULAR WST® LINE SOURCE

PRELIMINARY



With a design inspired from the KI stadium system, KARAI delivers the highest performance level for the fixed installation market. The main system components consist of the following:

- KARAI full range element operating in the 55 Hz to 20 kHz bandwidth
- SB18i complimentary low frequency extension element operating from 32 Hz
- LA8 amplified controller

KARAI delivers a considerable number of improvements over the previous generation of line sources, particularly with regard to directivity control in the horizontal plane, transducers resources for increased operating bandwidth and coherence, vertical coverage capability and extensive choice of operation modes to accommodate various LF contour requirements.

With a fixed horizontal directivity of 110° and a vertical inter-element variation up to 10°, KARAI is fully configurable to match any audience geometry. Utilizing the unrivalled characteristics of WST® (Wavefront Sculpture Technology), KARAI delivers clarity, precision, and a unique proximity effect offering the audience an incomparable listening experience.

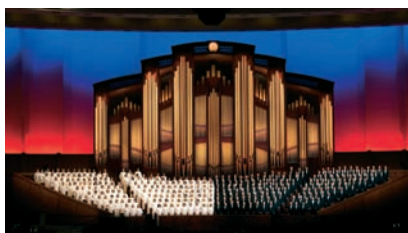
As a standalone system, its compact size and low weight complies with rigging and architectural limitations. KARAI can be deployed either as a distributed PA solution for stadium, arena, and convention centres, or as a FOH concert system for performing art centres, casinos, and houses of worship thanks to its full compatibility with the SB18i extension. The KARAI integration can be achieved for installations requiring an IP45 protection rating.

The LA8 amplified controller preset library delivers an extremely advanced and precise drive system for KARAI. A wide range of system configurations are available for the sound designer and the consultant allowing high level of creative freedom. Additional features include the L-DRIVE intelligent 2-way transducer protection circuit (PEAK and RMS limiting) and the unique Array Morphing EQ interface for quick adjustment of the tonal balance of the system to reach a reference curve or ensure consistency of the system sonic signature with multiple arrays of different sizes.

A single LA8 can drive up to 6 KARAI cabinets in a full range preset configuration for lead instruments, vocals and flat LF contour music material. Alternatively, KARAI can be deployed with the SB18i to extend its bandwidth down to 32 Hz.

Prior to its integration, KARAI can be acoustically and mechanically modelled with SOUNDVISION 3D simulation software. KARAI models are also available for CATT® and EASE® 4.2 (and higher versions) acoustic simulation software.

LA NETWORK MANAGER Software offers remote control and monitoring of amplified controllers driving KARAI via a user-friendly and intuitive graphic interface. The design of complex and sophisticated systems is made possible by the integration of the L-NET Ethernet-based Network with a capability of up to 253 units. L-ACOUSTICS® also provides control modules for external platforms as a certified member of the CRESTRON® Integrated Partner Program I2P.



KARAI SYSTEM COMPONENTS

KARAI/KARAIW¹

Full range modular active 2-way WST[®] cabinet (fixed installation version).



SB18i/SB18iW¹

Dual-vented low frequency extension cabinet (fixed installation version).



LA8/LA NETWORK MANAGER¹

Amplified controller with DSP library and networking capabilities.
Remote control software.



M-BUMPi/M-BUMPiW²

Rigging structure and extension bar for KARAI and/or SB18i (for fixed installations).
Certified for suspending up to 12 KARAI or 4 SB18i/12 KARAI. Certified for stacking up to 9 KARAI or 2 SB18i/6 KARAI.



KARAI SB18LINK/KARAI SB18LINKW

Rear rigging plates for flying KARAI under SB18i.



SOUNDVISION

3D electro-acoustic and mechanical simulation software dedicated to L-ACOUSTICS[®] products.

CATT[®] AND EASE[®] DATA

WST[®] and point source balloon files exportable from SOUNDVISION for use in CATT[®].

GLL files available for EASE[®] 4.2 and higher versions.

¹ See product spec sheet for more details.

² Verify the mechanical conformity of any installation using SOUNDVISION.

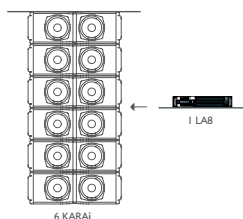
KARAI SYSTEM CONFIGURATION

Three main KARAI system operation modes are available: “**Full Range**”, “**High-Pass**”, and “**Low extension**”

FULL RANGE

The “**Full Range**” mode is for standalone KARAI line source or distributed applications. A single LA8 can drive up to 6 KARAI from one or two inputs.

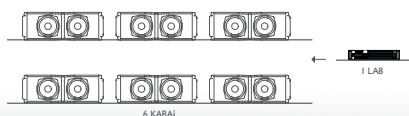
Preset: [KARA] - Line Source



HIGH-PASS

The “**High-Pass**” mode is adapted to distributed KARAI configuration for fills with a 100 Hz high pass filter.

Preset: [KARA_FI]



LOW EXTENSION

The “**Low extension**” mode is adapted to SB18i/KARAI configurations with a ratio of 1 SB18i to 3 KARAI (closely coupled) or 2 SB18i to 3 KARAI (decoupled).

Presets: [KARA] + [SB18_100] or [SB18_100_C]

Presets: [KARA] + [SB18_60] or [SB18_60_C]

