

KARA Ili

LONG THROW LINE SOURCE FOR INSTALL



- Added variable directivity and improved polar with Panflex
- 4-in-1 coverage patterns (70° / 90° L-R / 110°)
- Sleek design
- +2 dB SPL at 70°
- Best-in-class SPL per weight / footprint
- Install-specific rigging and accessories



ELECTRO-ACOUSTICS



Part of the K Series, Kara Ili is a modular line source system that can be deployed standalone or with its companion subwoofer SB18 Ili. Assembled as a variable curvature line source with class-leading SPL per weight and footprint, Kara Ili is ideal for venues that require clarity and long throw capability such as performing arts centers, theaters, operas, houses of worship, corporate facilities, and exhibition centers.

Kara Ili can be tailored to any audience geometry with inter-element angles ranging from 0° to 10°, and Panflex™ for adjustable coverage patterns. A single Kara Ili enclosure offers four horizontal directivities: 70° or 110° symmetrical and 90° asymmetrical on either side. With a tighter control of the directivity, the 70° setting brings an additional 2 dB compared to the 110° setting, increasing throw capability and even SPL distribution.

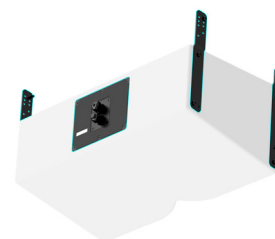
On its own Kara Ili can be used as a main system for vocal reinforcement and music material with light LF requirements. The discreet and lightweight enclosure maintains clear sightlines and minimizes load requirements. Associated with its companion subwoofer SB18 Ili, in flown or stacked configurations, Kara Ili modular system can accommodate any program material requiring bandwidth, contour, and output.

PHYSICAL

Kara Ili enclosure is constructed of premium grade Baltic birch plywood to ensure maximum acoustical and mechanical integrity. The enclosure is designed for discreet yet lasting integration, and benefits from a thickness optimization process that greatly reduces weight. Sturdy mechanics and suspension frame enable flown arrays of up to 24 enclosures.

Kara Ili elements are assembled using dedicated rigging plates. Install-specific accessories allow array deployment in various compositions with or without SB18 Ili. For improved aesthetics or video projection mapping, an acoustically-transparent screen is available for Kara Ili and SB18 Ili enclosures.

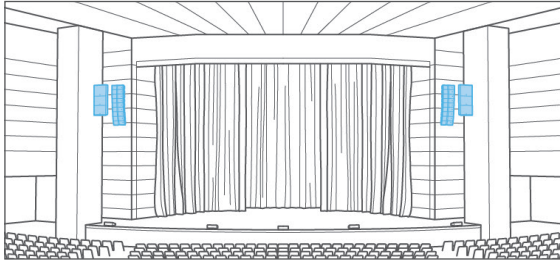
Kara Ili features terminal connectors sealed behind a plate with gland nuts. The enclosure has been weatherized to achieve an IP55 rating for outdoor operations and can be custom-colored using RAL references to melt into the venue decor.



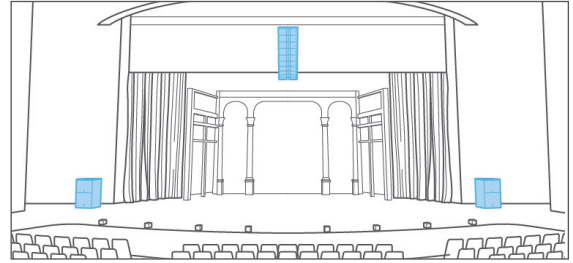
Discreet design with connecting plates and terminal connectors

APPLICATIONS

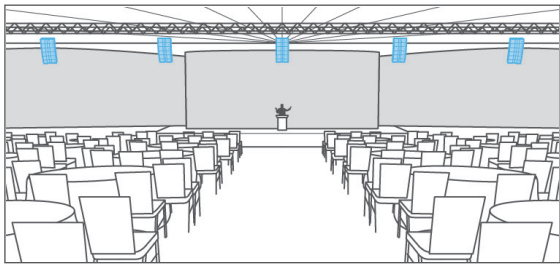
Kara Ili is a modular line source system that can be deployed on its own or with its associated subwoofer in medium to large installation venues. Perfect on its own as a main system for vocal or light music reinforcement ensuring clear sightlines and lightweight, Kara Ili can be supplemented with SB18 Ili in a coupled or decoupled configuration to host any program



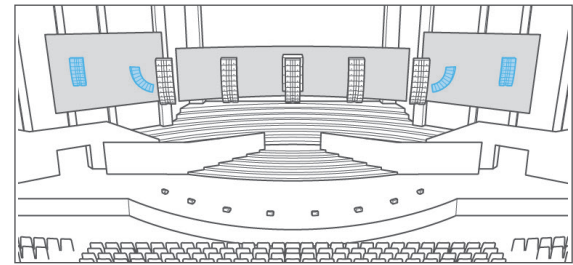
Concert hall with Kara Ili at 70° and 110°



Auditorium with Kara Ili center cluster at 110°



Large corporate event with Kara Ili 70°



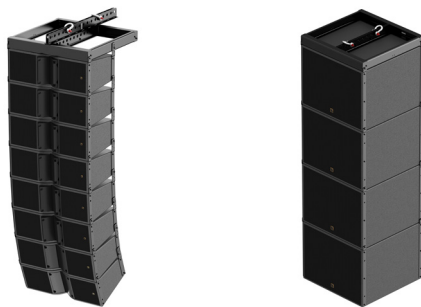
Extension and Outfill LISA Focus system with Kara Ili at 90° and 110°

RIGGING

Kara Ili can be flown with the dedicated frame KARAIli-BUMP and the optional M-BARi. Small Kara Ili arrays can be flown with the lighter frame and pullback accessory KARAIli-RIGBAR. Additional rigging accessories allow for flush connection to the ground or ceiling or downfill deployment.



KARAIli-BUMP + M-BARi
Flying frame for Kara Ili and SB18 Ili



KARAIli-RIGBAR
Rigging bar and pullback for Kara Ili and SB18 Ili



KARAIli-TILT
Rigging element with angles for KARA Ili and SB18 Ili



KARAIli-DOWNK3i
Interface for flying Kara Ili under K3i



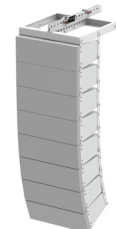
KARAIli-TILTBRACKET
Fastening brackets with angles for KARA Ili



KARAIli-FIXBRACKET
Fastening brackets for KARA Ili and SB18 Ili





KARAIli-SCREEN
Acoustically transparent screen for Kara Ili



AMPLIFIED CONTROLLERS

LA2Xi and LA4X are the recommended amplified controllers with two Kara Ili per pair of output channels for optimal use of the Autosolver tools. LA12X can be used to power and control up to three Kara Ili per pair of output channels. This configuration simplifies deployment and cable management but reduces optimization capabilities.

Amplified controllers	LA2Xi	LA4X	LA12X
Front and back panel			
Install / Touring	Install	Install / Touring	Install / Touring
In x Out	4 x 4 / 4 x 3 / 4 x 2 / 4 x 1	4 x 4	4 x 4
Output power (W RMS)			
@ 16 ohms	4 x 200 W	4 x 1000 W	4 x 1400 W
@ 8 ohms	4 x 360 W	4 x 1000 W	4 x 2600 W
@ 4 ohms	4 x 640 W		4 x 3300 W
@ 2.7 ohms			
Height	1U	2U	2U
Weight	4.40 kg / 9.70 lbs	11.3 kg / 24.9 lbs	14.5 kg / 32 lbs
Drive capability Kara Ili			
Max. number of enclosures per pair of channels	2	2	3
Max. number of enclosures per amplifier	4	4	6
Max SPL	137 dB	142 dB	142 dB

SUBWOOFERS

SB18 Ili: Install-specific 18" subwoofer (1 x 18")

KARA Ili + SB18 Ili: bandwidth: 32 Hz – 20 kHz
 Ratio of 1 SB18 Ili to 3 Kara Ili (coupled)
 Ratio of 2 SB18 Ili to 3 Kara Ili (decoupled)
 Contour reinforced by 10 dB at 100 Hz



Other subwoofers: KS21i, SB28, KS28



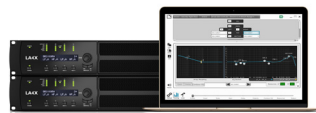
SOFTWARE

SOUNDVISION: simulation software




3D electro-acoustic and mechanical simulation software

LA Network Manager: control & monitoring software



Real-time control and monitoring up to 253 units
 Multiple network topologies



Kiva II
Kara II(i)
K3i
K2
K1

K series: Long throw variable curvature line sources

The K range comprises modular and large format line sources adapted to long throw applications in rental productions and fixed installations. Modular line sources (Kiva II/Kara II(i)) can be deployed with or without their dedicated subwoofer extension, based on bandwidth/footprint priority requirement.

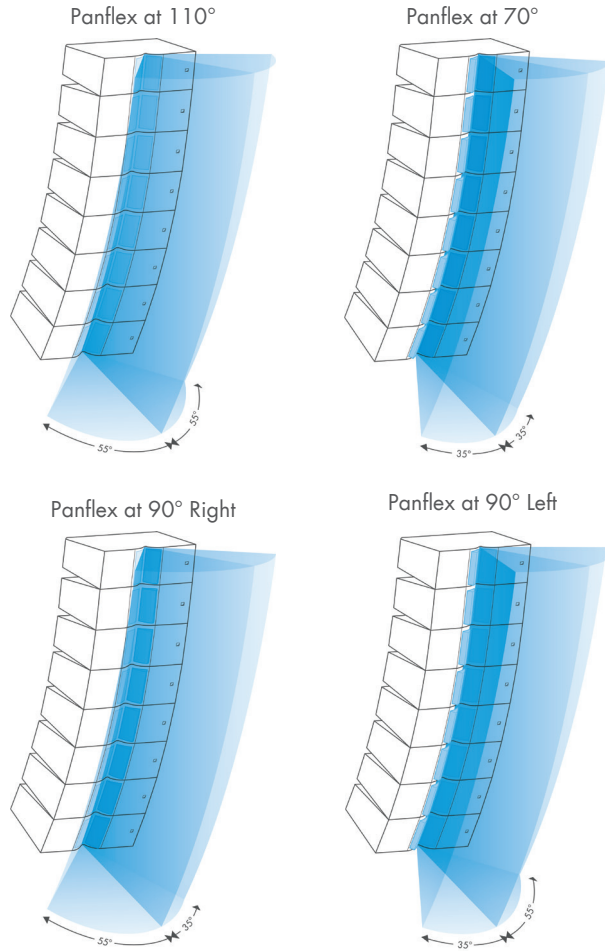
Large format line sources (K3i/K2/K1) are true full range systems with a maximized coherence due to the proximity of their LF/HF driver acoustic centers. Additionally, these systems can be deployed with K1-SB to boost the LF throw.

COVERAGE

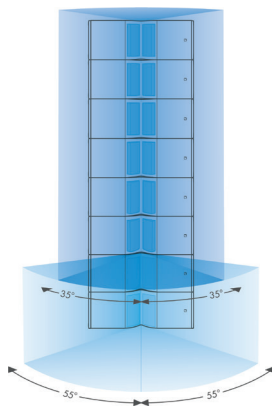
About L-Acoustics Panflex

Kara Ili employs L-Acoustics Panflex™, a unique horizontal steering technology that combines mechanically adjustable fins with DSP algorithms effective from 800 Hz.

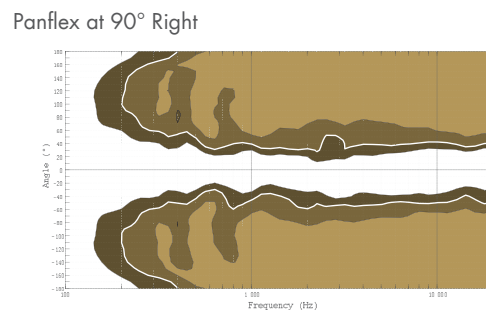
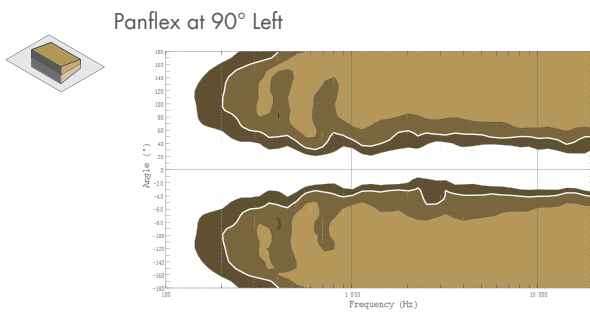
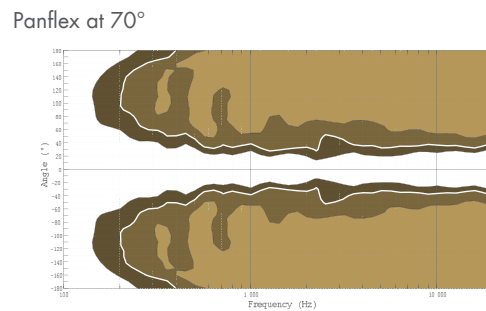
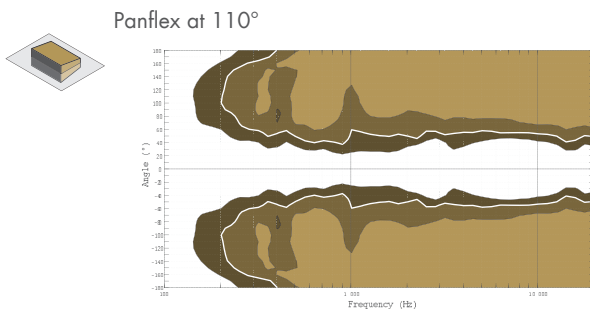
Narrowing or widening the horizontal directivity can serve many purposes: adapt to the width of the listening area, enable consistent SPL distribution for long and short distances, reduce or extend overlapping areas, and avoid reflecting surfaces. By combining WST® and Panflex, L-Acoustics exclusively addresses the control of directivity in both vertical and horizontal planes. As a result Kara Ili can match complex audience geometries with best sonic performance and minimized noise pollution.



Mixed Panflex at 70°/110°

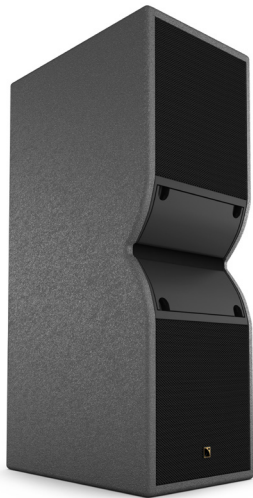


BEAMWIDTH



► Dispersion angle diagrams of a single Kara Ili in the horizontal plane for all Panflex settings using lines of equal sound pressure at -3 dB, -6 dB, -12 dB.

KARA Ili LONG THROW LINE SOURCE FOR INSTALL



Kara Ili is the installation version of the Kara II, designed for long-throw installation applications. Kara Ili shares identical sonic performance with its touring counterpart but features a sleeker design and streamlined mounting hardware fitting integration requirements.

With class-leading SPL per weight and footprint, Kara Ili is ideal for venues that require clarity and long throw capability such as performing arts centers, theaters, operas, houses of worship, corporate facilities and exhibition centers.

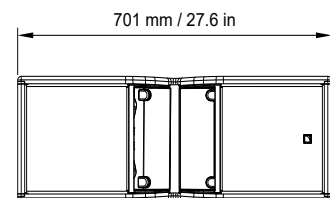
Inter-element angles and Panflex™ for user-adjustable horizontal directivity enable integrators, consultants and sound designers to precisely tailor the array coverage to any audience geometry.

Kara Ili is a discreet yet powerful solution featuring a range of accessories dedicated to installations. Kara Ili is highly weather-resistant as standard and can be color-matched to melt into any venue decor, indoor or outdoor.

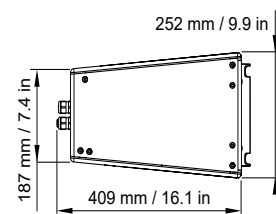


SPECIFICATIONS

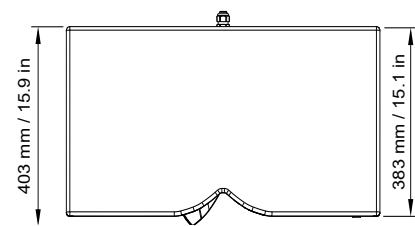
Description	2-way active WST enclosure amplified by LA2Xi / LA4X / LA8 / LA12X
Usable bandwidth (-10 dB)	55 Hz - 20 kHz ([KARA II 70])
Maximum SPL^{1,2}	142 dB ([KARA II 70])
Nominal directivity (-6 dB)	Vertical : depending on number of elements and array curvature Horizontal : 70° / 110° symmetric or 90° asymmetric
Transducers	LF: 2 x 8" neodymium cone driver HF: 1 x 3" neodymium diaphragm compression driver
Acoustical load	LF: Bass-reflex HF: DO SC waveguide, Panflex
Nominal impedance	LF: 8 Ω HF: 8 Ω
Connectors	Two 4-point terminal blocks with push-in connection Connector sealing plate with cable gland
Rigging and handling	External rigging kits M6 inserts for rigging plates and accessories Inter-enclosure angles [deg]: 0, 1, 2, 3, 4, 5, 7.5, 10
Weight (net)	21 kg / 46 lb
Cabinet	Premium grade Baltic birch plywood
Front	Coated steel grill Acoustically neutral 3D fabric
Rigging components	High grade steel with anti-corrosion coating
Finish	Dark grey brown Pantone 426 C Pure white RAL 9010 Custom RAL code on special order
IP	IP55



Front



Side



Top

¹ - Peak level at 1 m under free field conditions using pink noise with crest factor 4 (preset specified in brackets).

² For Max SPL values using LA2Xi, refer to LA2Xi system specification sheet.

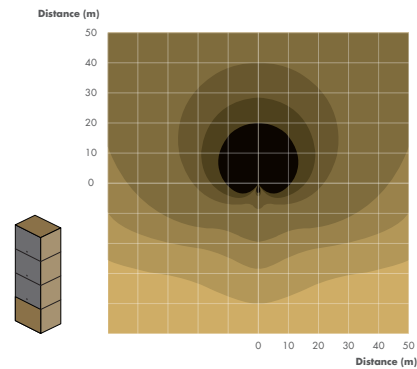
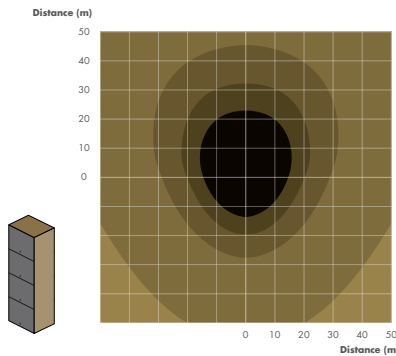
SB 18 Ili SUBWOOFER



Description	High power compact subwoofer: 1 x 18" amplified by LA2Xi / LA4X / LA8 / LA12X
Usable bandwidth (-10 dB)	32 Hz - 100 Hz ([SB18_100])
Maximum SPL^{1,2}	138 dB ([SB18_100])
Nominal directivity	Standard or cardioid configurations
Transducers	1 x 18" cone driver
Acoustical load	Dual bass-reflex, L-Vents
Nominal impedance	8 Ω
Connectors	4-point terminal block with push-in connection Connector sealing plate with cable gland
Rigging and handling	External rigging kits M6 inserts for rigging plates and accessories
Weight (net)	48 kg / 106 lb
Cabinet	Premium grade Baltic birch plywood
Front	Coated steel grill Acoustically neutral 3D fabric
Rigging components	High grade steel with anti-corrosion coating
Finish	Dark grey brown Pantone 426 C Pure white RAL 9010 Custom RAL code on special order
IP	IP55

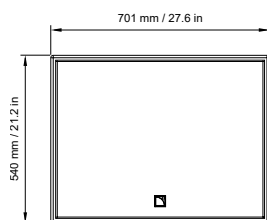
¹ Peak level at 1 m under half space conditions using pink noise with crest factor 4 (preset specified in brackets).
² For Max SPL values using LA2Xi, refer to LA2Xi system specification sheet.

ISOCONTOUR

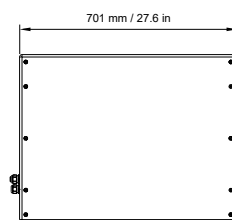


► SPL mapping of a block of four SB18 Ili in standard (left) and cardioid (right) arrangements, using surfaces of equal sound pressure with three dB step colored scale.

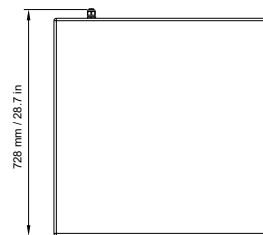
DIMENSIONS



Front



Side



Top