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A SOLO EFFORT

QSC's new breed of line array, the KLA, features a simple rigging system that could revolutionise the time and expertise required during an audio set up. Product manager Phil Sanchez explains.

It's one of those innovations that seem so simple, it's hard to believe it hasn't been thought of before. QSC Audio's new KLA Series brings the power and sophistication of a line array system into a product that is so easy to use, we predict it will significantly redefine the entire product category. A 'lift, click and play' approach, dubbed the SOLO rigging system by the manufacturer, means the KLA can be deployed far quicker than comparable line array products, which could ultimately mean cost savings, according to product manager Phil Sanchez. "Rigging KLA enclosures together takes a fraction of the time as compared to using rigging pins and bars," he explains, adding that the true benefit is determined through the continual deployment of a rig (or rigs) over the long-haul rather than a just once.

The SOLO system means KLA enclosures nest and lock together in seconds



and don't require any special tools or rigging pins. With the push of a button and flip of a lever, which according to Sanchez can literally take less than three seconds, two KLA enclosures can be rigged together.

Safety is another benefit, he adds. "The SOLO rigging system is designed for a 10:1 safety factor, which meets or exceeds requirements for most jurisdictions," he explains, adding: "as always, a certified, professional rigger should be consulted

when hoisting, positioning, and attaching the array to supporting structure."

Adding to its ease of installation is the Ar-Q frequency optimisation feature, which allows users to quickly tune and configure the array, making appropriate frequency adjustments based on the number of boxes. "With the click of a dial, the user can select the total number of boxes deployed in the array resulting in an evenly balanced and accurate tonal curve," says Sanchez. "QSC's proprietary Intrinsic Correction actively adjusts time, frequency and amplitude response to achieve a maximally flat bandpass target."

Comprised of two models, the KLA12 12-inch, two-way loudspeaker and the KLA181 18-inch subwoofer, the KLA series is geared towards both the permanent and portable markets for live entertainment, houses of worship or theatres, and its shape when flown offers a lot in the way of vertical dispersion. "Increased ver-

tical coverage on the KLA is ideal for applications such as a performing arts theatre that is a relatively shallow room but contains high-raked balconies," says Sanchez.

And as shown in the image to the left, where two box KLA arrays are hung from the truss on the left, centre and right and are joined by other K Family products including K, KW, and KLA; the KLA can be 'mixed and matched'.

"KLA was designed to be easily configured and deployed by just about any user for who a fixed-accurate, active line array solution is indicated. As a member of the K Family of products (K, KW, KLA Series), it shares performance and sonic characteristics with its siblings, allowing all ten models to be "mixed-and-matched" in innumerable ways," Sanchez explains.

QSC's exclusive DEEP (Digital Extension and Excursion Processing) innova-



tion also features in the series, allowing the speakers to deliver far more undistorted low-frequency output than could be produced by conventional means.

"DEEP begins by applying an equalisation boost at low frequency (typical for other products as well), but QSC's DEEP employs sophisticated DSP to identify

and reduce only those brief, transient low-frequency peaks that can cause woofer over-excursion or amplifier clipping. Reduction of the transient peaks is nearly inaudible and allows the average low-frequency output to remain high. The result is an astonishing amount of low-frequency output," explains Sanchez.

The KLA12 features a highly efficient 500 W by 500 W power amp module and the KLA181 offers the same highly efficient power amp module in a 1000 W configuration. This efficient design enables up to five KLA models (any combination of KLA12 and KLA181) to be driven off of a single 15 amp/120V (8A / 230V) electrical circuit, a feature that has clearly impressed.

"Reaction has been great and there is a lot of demand for the products," says Sanchez, who adds that although shipping began just over a month ago, orders are already in place from customers in Middle East region. 🇸🇦



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T +971 4 705 0316 • F +971 4 705 0317 • sales@gulfshowpower.com • PO Box 450133, Dubai, UAE • www.gulfshowpower.com