

AL-8 COMPACT LINE ARRAY SYSTEM FEATURES

- Each al-8 Compact Line Array System “block” includes four al-8 Acoustic Elements and a single V6 Systems Engine
- Scalable by adding or removing al-8 acoustic elements or combining multiple al-8 blocks
- Powerful DSP and preset library for easy assembly and instantaneous results
- Onboard SystemVUE networking
- Fully compatible with VUEPoint beam steering technology
- Integrated flying hardware allows quick assembly of arrays of up to 16 elements per flybar
- Optional flying and transport accessories available

SAME GREAT SOUND, WAY MORE FILLING

Like all other al-Class line arrays, the al-8 Compact Line Array System utilize VUE’s most advanced technologies and innovative designs to deliver superior sonic performance and unparalleled versatility. Cutting-edge technologies such as beryllium compression drivers, Kevlar/Neo transducers, precision amplification and DSP, as well as onboard SystemVUE networking, and full compatibility with the VUEPoint beam steering technology allow the highly-scalable al-8 to deliver unprecedented performance to a broad range of mainstream sound reinforcement applications.

BLOCKING THE VUE

The al-8 Line Array System is made up of the al-8 Acoustic Element and rack-mount V6 Systems Engine. The V6 combines a highly-sophisticated DSP architecture with enough amplifier power to tri-amp up eight al-8 acoustic elements. In addition, onboard SystemVUE networking capabilities allow easy assembly of sophisticated networks with remote management and control available via the intuitive SystemVUE software.

The system is sold in standard blocks, with four al-8 Acoustic Elements and a single V6 Systems Engine comprising a single block. Multiple al-8 blocks can be combined to address larger applications.

For applications where extended low frequency is required, the al-8 is fully compatible with a variety of VUE subwoofers. Flexible options allow flying, or ground stacking.

EASY ASSEMBLY AND INSTANT RESULTS

The al-8 Line Array System benefits from a highly-sophisticated DSP architecture that allows each individual component—from traducers, amplifiers and cabinets, all the way out the SystemVUE software itself—to work perfect harmony for precise control and easy operation. In fact, the technology is so smart that al-8 designers were able to pre-load the V6 Systems Engine with a library presets that dramatically improve ‘out -of-the-box’ performance while streamlining setup. Operators simply assemble the array, select the desired preset from the SystemVUE software, then align the physical placement. Minimal EQ or tweaking is required and the operator is free concentrate on creating the perfect mix.



AL-8 ACOUSTIC ELEMENT

The al-8 Acoustic Element features a full complement transducers designed and engineered specifically by VUE for use in the al-8. A pair of precision-engineered 8-inch low frequency transducers flank four 4-inch, Kevlar-coned Neodymium woofers for the mid-range. The mid-range units are outfitted with VUE's unique lateral acoustic



shade modules that acoustically "moves" the drivers closer together to optimize directivity of the woofers at their upper operating range for a smooth transition over the entire coverage area.

For the high frequency, the al-8 utilizes a pair of 1-inch exit, neodymium compression drivers with Truextent® beryllium diaphragms.

Beryllium technology allows the compression driver to deliver dramatic improvements in HF extension and response linearity that simply cannot be matched by traditional aluminum or titanium designs.



The beryllium compression drivers are mounted to a tightly coupled, precision waveguide that reduces acoustic lobing and provides ideal line array consistency.



All transducers are housed in a rugged birch plywood enclosure protected by a 12-step Dura-Coat LX



finish. Integrated flying hardware allows quick assembly of arrays of up to 16 elements per flybar. Rear panel I/O includes NL8 Input and Loop connections for easy daisy-chaining of line array elements. Flexible rigging options allow flying and ground stacking.



BERYLLIUM'S NEAR-PERFECT PISTONIC MOTION

results from its extremely high stiffness-to-mass ratio, dramatically reducing mechanical deformation (breakup) and shifting resonant frequencies outside the audible range.

Aluminum
Titanium
Beryllium

15,000 Hz
20,015.6 Hz

Klippel SCN laser scanner, geometric and vibration scans of compression driver domes

For more information on how beryllium makes VUE products better visit: vueaudio.com/about/beryllium/

V6 SYSTEMS ENGINE



- LF 2500 W x 2 sine wave - MF 800 W x 4 sine wave - HF 800 W x 2 sine wave
- 64-bit digital processing including EQ, time alignment, crossover management, and speaker protection
- Ultra-premium converters provide 118 dB of dynamic range
- Input Delay up to 2 seconds per channel
- LCD display for easy user interface (non LCD version available for fixed installation)
- Compatible with SystemVUE control and monitoring software for Mac or PC (iOS this summer)
- Maximum input level of +23 dBu for the most demanding applications
- Latency < 1ms (Typical 640 microseconds)
- Compact 2U rack-mount chassis

The 2U-sized V6 Systems Engine is a 2-in/6-out configuration providing six discrete channels of amplification with more than enough "oomph" to tri-amp four al-8 elements.

Inside each V6 chassis are six dedicated amplifiers supplying two channels at 2500 W each for the low frequency, four channels at 800 W each for the mid frequency and high frequency sections. And that's clean, pure sine wave power rather than the "peak burst" measurement our competition prefers to use.

In addition to amplification, the V6 Systems Engine also handles all system processing and management functions, including speaker protection as well as system-optimized alignment of EQ, time and crossover functions. Rear panel signal connections include dual XLR and AES/EBU inputs, with a pair of NL8 connectors for loudspeaker outputs.

Finally, the V6 Systems Engine provides full networking capabilities via SystemVUE software for Mac and PC, as well as full compatibility with the VUEPoint beam steering technology.



al-8 Line Array System

al-8 ACOUSTIC ELEMENT & V6 SYSTEMS ENGINE

SPECIFICATION SHEET

STANDARD IP MAKES FOR EASY NETWORKING

The al-8's companion V6 Systems Engine ships with networking and remote management capabilities as standard, allowing easy assembly of expanded networks and easy access to each element and/or device on the network through our intuitive SystemVUE software.



Front and rear panel Ethernet ports are fully compatible with standard IP networks. Simply plug in, and the product will automatically recognize and connect to virtually any kind of IP configuration including DHCP based networks, a fixed IP network, or even an ad hoc network (directly connecting to a computer via Ethernet cable). Whatever the configuration, it just works.



The V6 provides an Ethernet "Input" on the front panel and both "Input" and "Loop" connections on back. The loop option allows users to daisy-chain additional devices into the network without the need for individual runs from the system switch to each device.

To ensure network reliability, the Ethernet ports on the V6 can detect power

interruptions and automatically switch to a pass-through position in the event of a local failure. This ensures that the larger network remains functional even if a single node fails or loses power.

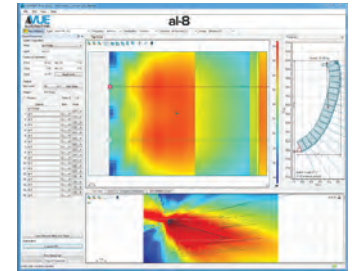
SystemVUE software connects VUE devices and networks to Windows or Macintosh computers via a wired or wireless Ethernet connection. SystemVUE software provides access to entire networks, as well as individual devices, for the purpose of optimizing key parameters such as speaker protection, input/output levels, volume, mute, delay and even input sources. Via the SystemVUE software, users can easily customize the V6 Systems Engine for use with a wide variety of unique al-8 configurations, or update the unit to function with future VUE al-Class arrays.

VUEPOINT BEAM FORMING FOR SUPERIOR COVERAGE



VUEPoint is an innovative new process for system optimization that brings the power of beam forming to virtually any mainstream line array application.

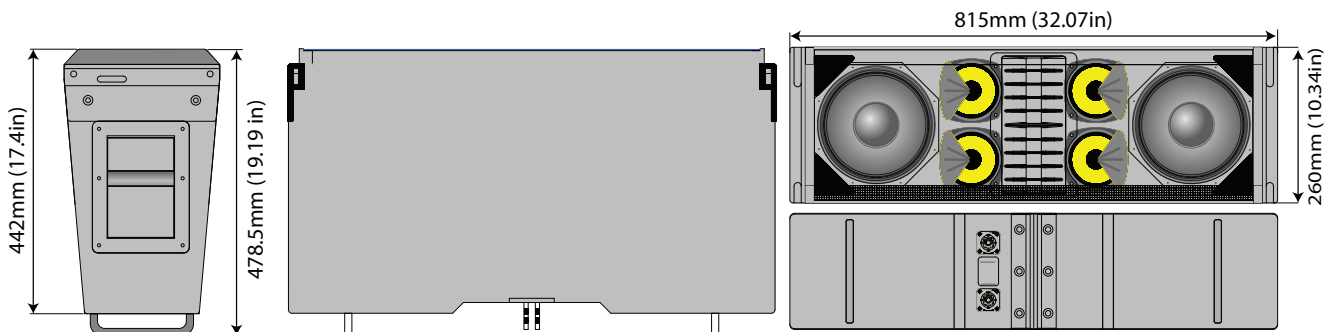
Developed in partnership with Berlin-based AFMG Technologies, the undisputed leader in room modeling and analysis software, VUEPoint is a four-part process that combines VUE's sophisticated DSP and VUEPoint software with AFMG's revolutionary FIRmaker technology.



VUEPoint can be applied to the al-8 or any VUE Audiotechnik line array without the need for special upgrades or add-ons. The Capabilities are already integrated into V6 System Engine's DSP architecture and SystemVUE software. By following a simple four-step VUEPoint process al-8 users can achieve dramatic improvements in coverage and spectral consistency in virtually any environment.

ACCESSORIZE FOR EVERY APPLICATION

- Optional transport rack holds up to four al-8's direct from flying rig
- Flybar supports 16 al-8's with 10 to 1 load factor or 24 units with 6 to 1 load factor, and can also be used for ground stacking.



Model	al-8	2x al-8 & v6
Description	Compact Line Array Element	Compact Line Array System
Acoustic Data		
Frequency Response (+-2.5 dB)	75 Hz to 18 kHz	70 Hz to 18k Hz
Frequency Range (-10 dB)	50 Hz - 26 kHz	50 Hz - 26 kHz
Sensitivity (1W/1m)	100 dB SPL	103 dB SPL
Power Long Term Sine Wave		
Before Protection LF:	700 watts	1400 watts
Before Protection MF:	275 watts	550 watts
Before Protection HF:	56 watts	224 watts
Power Burst (6 dB Crest before clip)		
LF:	2000 watts	4000 watts
MF:	800 watts	1600 watts
HF:	800 watts	800 watts
Max Peak SPL †		
Measured (band limited pink noise 6 dB crest factor)	125 dB SPL	131 dB SPL
Calculated (Broadband Sensitivity + Max Power)	136 dB SPL	141 dB SPL
Max SPL Long Term (AVG SPL @1M before protection band limited pink noise)	119 dB SPL	125 dB SPL
Coverage Horizontal	90 degrees - 6 dB	90 degrees - 6 dB
Coverage Vertical	10 degrees - 6 dB	Dependent on array configuration
Transducer Data		
LF Driver Description	Two 8-inch drivers, 3-inch voice coils, neodymium magnets	
MF Driver Description	Four 4-inch drivers, Kevlar cones, isobutylene isoprene rubber surrounds, neodymium magnets	
HF Driver Description	1-inch exit 34 mm voice coil Pure Truextent® beryllium diaphragm	
Impedance	8/8/8 Ohms (L/M/H)	4/4/4 Ohms net 2x 8/8/8 ohms
Physical Data		
Rigging:	Three-point rigging system, angles between elements: 0° to 10° in 1° steps	
Connectors	Neutrik NL8 Speakon In and Loop	
Cabinet Material	Multi-ply birch hardwood	
Cabinet Surface	12 Step Dura-Coat LX	
Handles	Side Recessed & Rear Metal	
Dimensions (H x W x D)	10.25 x 32.09 x 17.52 in (34.45 wide with fly pins) 261 x 815 x 445 mm (875mm wide with fly pins)	
Weight (per element)	76.6 lbs 34.8 kg Net (91.3 lbs 41.5 kg Shipping)	

† Measured Max SPL is recommended for system design purposes and represents the average peak output before protection and after power compression. In accordance with common industry practice, calculated data is provided for comparison purposes, and is a theoretical calculation.

V6 Systems Engine Rear Panel

