

Compact Line Arrays

By **Bill Evans**

Line arrays—in the right hands and set up properly—provide almost unprecedented pattern control. But what if the room you are working in (say a church or a small-ish theatre) needs that kind of control but a big concert array is just too much in terms of space, SPL and money? Well, there are the mid-sized arrays, but there are situations in which even those are overkill. Enter the compact—and in some cases even “subcompact”—line array. Small but mighty, these systems range in size from “a little smaller than the big one” to really tiny. Some are the stack of splayed boxes we are used to seeing, and some have put all of the elements of the array into a single box. Our separating standard for this guide was that no box contains a driver any bigger than 8 inches. **F**



Martin Audio W8LM



Yamaha NEXO GEO T2815



EAW NTL720



Tannoy i9



Peavey SSE LA



L-Acoustics KIVA



Meyer Sound Melodie

Company	Make	Model	Price	Cabs	SPL	Power	Dispersion	Sensitivity (Per Passband)	Dimensions	Weight	Construction	Connectors
Adamson Systems Engineering adamonsystems.com	Adamson	SpekTrix	N/R	4 ground stacked	130.1dB - 136.1 dB	AES/Prog. Peak LF 250W/500W/1000W MF250W/500W/1000W HF 80W/160W/320W	V: 5 degrees H: 120 degrees	2.83V@1m: LF: 94.5dB / 80-250 Hz, MF: 99dB / 250 Hz - 900Hz. HF: 112dB / 900Hz - 18kHz	27.9"W x 8.6"H x 18.9"D	62 lbs	Cabinet: 5/8" 11 ply Baltic Birch Finish:Textured acrylic, Metal work: 16 gauge steel grille with Sandtex powder finish	Neutrik Speakon NL8
Biema biema.us	Compact Line Array	IVA	\$378	4	N/R	80W RMS	V: 20 degrees H: 90 degrees	Full Range 92dB	18.3"W x 5.25"H (front) 3.75"H (rear) x 8.5"D	11.5 lbs	Textured Black or White finish	NL 4 In & Out
	Compact Line Array	LAVA	\$798	4	N/R	150W RMS	V: 15 degrees H: 90 degrees	Full Range 97 dB	22"W x 7"H (rear), 4"H (front) x 13"D	35 lbs	Black or white	NL 4 In & Out
Community Professional Loudspeakers communitypro.com	ENTASYS	ENT-FR	\$1,748	1	120 dB - 122 dB	600W RMS, 1500 W PGM	V: 12 degree or 6 degree (user configurable) / H: 120 degrees	Curved Configuration (12 degree V.) 93 dB / Straight Config. (6 degree V) 95 dB	44.5"W x 5.5"H x 7.36"D	40 lbs	One piece aluminum construction wiht molded nylon end caps / Black or White	Top: (1) dual banana plug (male), Bottom: (1) NL4 locking connector, (2) terminal strip, (1) dual banana jack (female)
D.A.S. Audio, S.A. dasaudio.com	Variant	Variant 25A (powered installation array)	\$1,761.30	4	120 dB	Powered System	Splay Dependent	-	22.6"W x 6.9"H x 9"D	39.6 lbs	Birch plywood/paint	Input: female XLR, Loop thru: male XLR, AC inputs and outputs: Neutrik PowerCon
EAW eaw.com	EAW	NTL720	\$5,165	4	133 dB peak	N/R	V: 12 degrees H: 110 degrees	Sensitivity per driver/passband (SPL @ 1w-1m)	24"W x 9.41"H x 14.28"D	47 lbs	Exterior grade/Baltic grade plywood / EAW RoadCoat finish	XLR (Analog and AES), RJ-45 (U-Net), USB (control)
Electro-Voice electrovoice.com	Electro-Voice	XLD281	\$3,615	N/R	141 dB	LF: 200W Cont., 400W Prog., 800W Peak; MF: 200W Cont., 400W Prog., 800W peak; HF: 80W Cont., 160W Prog., 320W Peak	H:120 degrees (XLD291 also available - H:90 degrees)	75 - 18,000 Hz (-3 dB); 60 - 20,000 Hz (-10 dB)	28.58 x 9.88 x 14.53	48.06 lbs	Birch plywood with EVCoat finish	2x NL8
	Electro-Voice	XLE181	\$2,730	N/R	138 dB	200W Cont./400W Prog./800W Peak	H:120 degrees (XLE191 also available - H:90 degrees)	90 - 18,000 Hz (-3 dB); 75 - 20,000 Hz (-10 dB)	20.31 x 9.88 x 14.53	37.92 lbs	Birch plywood with EVCoat finish	2x NL8
JBL Professional jblpro.com	VerTec	VT4887	\$3,999	N/R	131 to 141 dB SPL	1000W LF, 225W MF/HF Continuous	V:Varies. H: (-6 dB): 100 degrees nominal	97 dB	31"W x 11"H x 16.3"D	67 lbs	Wedge frustum 5 degree side angle enclosure. PlyMax engineered wood composite structure, DuraFlex finish,2 handles with integrated LF ports weather-resistant compounds.	NL8 and NL4
	VerTec	VT4887A	\$3,999	N/R	131 to 141 dB SPL	1000W LF, 225W MF/HF Continuous	V:Varies. H: (-6 dB): 100 degrees nominal	97 dB	31"W x 11"H x 16.3"D	67 lbs	Wedge frustum 5 degree side angle enclosure. PlyMax engineered wood composite structure, DuraFlex finish,2 handles with integrated LF ports weather-resistant compounds.	NL8 and NL4
L-Acoustics US, LLC l-acoustics.com	L-Acoustics	dV-DOSC	\$5,190	4	137 dB	LF 1520W Peak, HF 260W Peak	V: defined by array H: 120 degrees	N/R	27.4"W x 10.2/6.7"H x 18.7"D	70.1 lbs	Grayish-brown	2 x 4-pin Speakon
	L-Acoustics	KIVA	\$2,950	4	130 dB	500 W	V: defined by array H: 100 degrees	N/R	20.5"W x 6.9/4"H x 14.1"D	28.7 lbs	Grayish-brown	2 x 4-pin Speakon
Martin Audio martin-audio.com	Wavefront Series	W8LM	\$4,250	Variable to 16	130 dB	LF 1600W, MF 1600W, HF 300W	V: 7.5 degrees H: 100 degrees	LF 100dB, MF 100 dB, HF 106 dB	24.4"W x 9.57"H x 15.7"D	53 lbs	Multi-laminate plywood - black texture	2 x Neutrik NL4
McCauley Sound Inc. mccauleysound.com	MLINE	M90 M120	\$4,110	3	132dB	LF 800W AES HF 120W AES	V:Varies. H: M90 90 degrees, M120 120 degrees	LF 97dB HF 105dB 2.83V 1m	30.7"W x 10.25"H x 20.9"D	75 lbs	12 Ply Birch, McCauley Pro Coat	NL4
	Monarc	MLA2	\$5,240	3	LF 136dB Peak, HF 139dB Peak	LF 800W AES HF 200W AES	V:Varies. H: 100 degrees	LF 101dB HF 110dB 2.83V 1m	27.17"W x 10.96"H x 24.6"D	85 lbs	12 Ply Birch, McCauley Pro Coat	NL8 EP8
	INLINE	N90 N120	\$2,390	3	LF 132dB HF 132 dB	LF 800W AES HF 120W AES	V:Varies. H: N90 90 degrees, N120 120 degrees	LF 97dB HF 105dB 2.83V 1m	27.3"W x 10.17"H x 18"D	67 lbs	12 Ply Birch, McCauley Pro Coat	Barrier Strip
Meyer Sound Labs meyersound.com	Meyer Sound	M'elodie UltraCompact High-Power Curvilinear Array Loudspeaker	\$7,280	6	131 dB	N/R	H: 100 degrees	N/R	28.54" w x 9.19" h x 12.75" d	62 lbs	Birch plywood, black textured	PowerCon with looping output or VEAM
Outline www.outlinearray.com	Outline Butterfly	C.D.H. 483	\$7,349	4	141 dB	800W AES Low/Mid; 120W AES HF	H: 90 degrees	138.5 dB L/M; 141 dB HF	27.6"W x 9.4/7.6"H x 23.6"D	77 lbs	Birch ply/painted	Neutrik NL-4
	Outline	Mini C.O.M.P.A.S.S live	\$6,319	4	132 dB	500 W AES LF/LM 500W AES HF Self-Powered	V: variable to 60 degrees H: 150 degrees	141 dB	30.5"W x 9.4"H x 20.5"D	53 lbs	Birch ply/painted	Neutrik NL-4
	Outline	Mini C.O.M.P.A.S.S live	\$6,319	4	132 dB	500 W AES LF/LM 500 W AES HF Self-Powered	V: variable to 60 degrees H: 150 degrees	141 dB	21.7"W x 12.4"H x 16.4"D	53 lbs	Birch ply/painted	Neutrik NL-4
Peavey Electronics peavey.com	Peavey Sanctuary Series	SSE LA	\$699.99	1	116 dB continuous; 122 dB peak	200W Continuous; 400W Program; 800W Peak	V: 60 degrees (20 for primary long throw, 40 for secondary short throw) H:130 degrees	93 dB	38.5" x 3.5" x 10.13"	12 lbs	Premium birch plywood finished in black or white	Barrier strip screw terminals
QSC Audio Products, LLC qscaudio.com	WideLine 8	WL3082	\$3,349	Vertical requirement dependent	133dB Peak	500W MF, LF; 170W HF Peak	V: 10 degrees H: 140 degrees	HF 108dB; MF 98dB; LF 98dB	20"W x 9"H x 16"D	38 lbs	15mm birch plywood/ black or white finish	2 x NL8 connectors
Sound Bridge Acoustic Labs SBAL soundbridge.com	XYON	7208XY	\$6,940	4	147dB	Mids 500/2000 mid/hi 250/1000	V: 10 degrees H: 120 degrees	108dB/117dB	32"W x 9"H x 18"D	93 lbs	Lite ply/baltic birch/uhmw	Neutrik NL-4
TC Group Americas - Tannoy tannoy.com	Tannoy - i7	i7	\$884	1	108dB	90W Average	V: 50 degrees H: 110 degrees	89dB @ 1m	22.52"W x 5.31"H x 6.84"D	19 lbs	MDF - Textured charcoal or white finish	Speakon
	Tannoy - i9	i9	\$1,467	1	115dB	150W Average	V: 40 degrees H: 120 degrees	93dB @1m	30.67"W x 6.69"H x 7.87"D	27 lbs	MDF - Textured charcoal or white finish	Speakon
	Tannoy - Qflex	Qflex 32	\$13,098	2	100dB	100W(RMS) per passband	V: 10 -100 degrees H: 120 degrees	100dB @ 30m - Average SPL	54.6"W x 5.9"H x 6.7"D	55.7 lbs	Aluminum extrusion / White powder coat	Phoenix & RJ45
	Tannoy - Qflex	Qflex 40	\$18,098	3	100dB	100W(RMS) per passband	V: 10 -100 degrees H: 120 degrees	100dB @ 30m - Average SPL	83.75"W x 5.9"H x 6.7"D	84.9 lbs	Aluminum extrusion / White powder coat	Phoenix & RJ45
	Tannoy - Qflex	Qflex 48	\$23,098	4	101.5dB	100W(RMS) per passband	V: 10 -100 degrees H: 120 degrees	101.5dB @ 30m - Average SPL	116.8"W x 5.9"H x 6.7"D	113.6 lbs	Aluminum extrusion / White powder coat	Phoenix & RJ45
	Tannoy - Qflex	Qflex 8	\$5,000	1	92dB	100W(RMS) per passband	V: 10 -100 degrees	92dB @ 30m - Average SPL	33"W x x 5.9"H x 6.7"D	33.6 lbs	Aluminum extrusion / White powder coat	Phoenix & RJ45
WorxAudio Technologies, Inc. www.worxaudio.com	TrueLine	V8T-P	\$6,650	4	131db @ 1m	Bass 500W RMS-Hi 175W RMS	V: 10 degrees H:120 degrees	B-105dB 1w/1m - H-109dB 1w/1m	28"W x 10.5"H x 18"D	108 lbs	24mm, 15mm Baltic Birch, ProTEX	Neutrik PowerCon - XLR
	TrueLine	X11-P	\$3,250	4	129db @ 1m	Bass 500W RMS-Hi 75W RMS	V: 10 degrees H: 160 degrees	B-101dB 1w/1m - H-108dB 1w/1m	24.5"W x 10.25"H x 18"D	59 lbs	24mm, 15mm Baltic Birch, ProTEX	Neutrik PowerCon - XLR
Yamaha Commercial Audio Systems, Inc. www.yamahaca.com	NEXO	GEO S805/GEO S830	\$2,700	6	128 peak	400-750W	V: 5 degrees (GEO 805); 30 degrees (GEO S830) H: 80 to 120 degrees	99dB	16 7/8"W x 10 7/8"H x 11 7/8"D	28.7 lbs	Baltic Birch Ply finish with textured black coating	2x NL-4
	NEXO	GEO T4805; GEO T2815	GEO T4805 \$12,000; GEO T2815 \$9,000	6 recommended	140db	750-1000W front and rear; 400-500W HF	V: 5 degrees H: 90 degrees (GEO T4805) V: 15 degrees H: 120 degrees (GEO T2815)	GEO T4805: 109dB; GEO T2815: 107dB	GEO T4805: 35 1/2"W x 11 1/4"H x 24 11/16"D; GEO T2815: 35 1/2"W x 9 13/16"H x 21 1/8"D	GEO T4805 114.6 lbs; GEO T2815 63.9 lbs	Baltic Birch Ply finish with textured black coating; Aluminum with dark grey coating	EP6 (includes loop-through cable)