



LX & LX-E

series



EXTENSIVE LX & LX-E SERIES COVER THE HIGH-PERFORMANCE SPECTRUM

The new LX and LX-E Series of loudspeakers each consist of nine models in total, comprising five full ranges (with FOH and monitor systems in both 2 inch and 15 inch versions), and four sub bass cabinets (in both 15 inch and 18 inch versions). Boasting distinctive style and features, these high powered, high performance arrayable trapezoidal enclosures are capable of extremely high sound pressure levels and exceptional sonic quality with wide dynamic range and bandwidth.

Both series have been developed with exceptional features including the large elliptical Wave Guide horn, the use of cast-frame, large voice coil woofers for sustained output capability and minimal power compression under extended high-power use, and the ProTech™ protection system designed to protect the HF unit, just to name a few.

In creating the LX Series, we set some basic parameters to design a range that delivers without exception the performance features and quality that our customers demand. We also kept it simple; the LX-E range has a 'systems' approach, a range of models that can be used

together to provide solutions for nearly every audio challenge.

In the LX Series, the powerful LX-15B, LX-18B, LX-18MB and LX-218B sub bass systems have been designed for use with large-scale LX-12, LX-15 and LX-215 systems to extend LF output power. In demanding professional applications, the LX-15B and LX-18B, which feature an internal two-way network, allow a four box system to be powered by one amplifier. Tough industrial carpet covering provides durability and protection, and contributes to the overall safety in the set-up and use of the LX systems.

The LX-E Series has the same model line up as the LX Series. The LX-E is finished in a hardwearing, two-stage epoxy black paint finish and is constructed from premium grade plywood for extra strength. Among the whole series, the LX-12E and LX-15E have multiple mounting points for maximum flexibility when installing.

In comparison to the LX Series, the LX-E Series also has the same power ratings.

FEATURES

- High Performance, arrayable trapezoidal cabinets
- 50 mm Titanium diaphragm true compression driver for brilliant, natural HF reproduction
- Large Elliptical Wave Guide Horn provides superior control over HF coverage with reduced distortion, greater output and smoother frequency response
- Cast frame, large voice coil woofers for sustained output capability and minimal power compression under extended high power use
- Dynamic, full range frequency response
- ProTech™ driver protection system
- Recessed metal jack plates with series Speakon™ type and 1/4" inputs



NEW LOOK, DISTINCTIVE FEATURES, HIGH STANDARD, GREAT POWER AND MORE CHOICES

Elliptical Wave Guide Horn (1.4" Exit)



In comparison to a conventional rectangular horn, the Elliptical Wave Guide offers superior control over HF coverage, with reduced distortion, greater output and smoother frequency response. The elliptical shape means that there are no corners or parallel surfaces to distort, diffract or reflect the sound—therefore the output is smoother, cleaner and more consistent. Again, due to the elliptical shape, mid to high frequencies are diffused more efficiently.

Titanium 50mm Diaphragm, 1.4" Exit Compression Driver



The Elliptical Wave Guide Horn is coupled with a 50mm (2") true compression driver designed specially for the LX and LX-E Series. This titanium diaphragm driver features a 1200g-magnet with a 35mm (1.4") exit for brilliant, natural HF reproduction.

ProTech™ Driver Overload Protection System

Understanding that sound systems are often asked to perform beyond their original design parameters, we have designed a smooth, progressive dynamic limiter/protection system that is carefully tailored to each mode. Overloads are limited and drivers are protected against long term transient or peak conditions. The ProTech™ system progressively converts excess power to heat and triggers a reduction in power to the HF driver. When the overload condition is removed the system returns seamlessly to normal operation.

Sophisticated Crossovers Design

Each crossover in the LX and LX-E Series is built using the highest quality components and designed specifically for that system, enabling smooth power and frequency response control through the crossover region. The LX-15B and LX-18B feature integral two-way networks that allow a four-box system to be powered by one amplifier.

Trapezoidal, Plywood and Composite Construction



The LX-E's cabinet is constructed from plywood on all critical surfaces (where durability is important) and wood composite where resonances need to be kept to a minimum. The trapezoidal shape further improves sonic accuracy by significantly reducing internal flutter echoes and standing wave resonances that are often apparent in rectangular shape cabinets.

Mounting points



For maximum flexibility when installing, we have designed two specific models which feature 12 x M10 rigging points allowing the cabinets to be flown or arrayed. The LX-12E and LX-15E are fitted with these flying inserts.

Protective Finish



The LX is all finished using a tough, black industrial carpet offering exceptional protection and durability for life on the road.



The LX-E is coated with Duraguard™, an abrasion resistant paint that creates a protective 'skin' around the cabinet. Both finishes contribute to the overall safety in the set up and use.

Strong Grille, Square Handles and Castors



In order to provide maximum protection to the internal components of the loudspeakers, the front grilles are full steel and 1.5mm thick.



The square handles allow the cabinets to be gripped securely and comfortably, therefore making them easy to move.



Built-in castors are available on some larger units for ease of transportation.



LX & LX-E Series Specification

MODEL	LX-12 LX-12E	LX-12M LX-12ME	LX-15 LX-15E	LX-15M LX-15ME	LX-153 LX-153E	LX-215 LX-215E	LX-15B LX-15BE	LX-18B LX-18BE	LX18MB LX18MBE	LX218B LX218BE
APPLICATIONS	2-way	2-way monitor	2-way	2-way monitor	3-way	3-way Quasi	subwoofer	subwoofer	subwoofer	subwoofer
FREQUENCY	50Hz-20kHz	60Hz-20kHz	40Hz-20kHz	55Hz-20kHz	40Hz-20kHz	40Hz-20kHz	42Hz-170Hz(LX-15B) 42Hz-2kHz(LX-15BE)	38Hz-150Hz(LX-18B) 38Hz-1.5kHz(LX-18BE)	38Hz-1.5kHz	30Hz-1.5kHz
RESPONSE@ +/-3dB										
SENSITIVITY 1w@1m	97dB	97dB	98dB	98dB	101dB	101dB	98dB	99dB	99dB	100dB
COVERAGE Horiz.	90	90	90	90	90	-	-	-	-	-
COVERAGE Vert.	45°	45°	45°	45°	45°	-	-	-	-	-
POWER HANDLING										
continuous (watts)	400	350	400	350	450	700	700	800	800	1600
music (watts)	800	700	800	700	900	1400	1400	1600	1600	3200
peak (watts)	1600	1400	1600	1400	1800	2800	2800	3200	3200	6400
MAX SPL (dB)	129	128	130	129	134	135	132	134	134	138
SYSTEM IMPEDANCE	4 or 8	8	4 or 8	8	8	4	4 or 8	4 or 8	4 or 8	4
LF DRIVER										
driver size	12"	12"	15"	15"	15"	15"	15"	18"	18"	18"
HF SECTION										
impedance (W)	8	8	8	8	8	8	-	-	-	-
coil size (mm/ins)	50/2"	50/2"	50/2"	50/2"	50/2"	50/2"	-	-	-	-
exit size (mm/ins)	35/1.4"	35/1.4"	35/1.4"	35/1.4"	35/1.4"	35/1.4"	-	-	-	-
diaphragm matl	Titanium	Titanium	Titanium	Titanium	Titanium	Titanium	-	-	-	-
protect type	bulb	bulb	bulb	bulb	bulb	bulb	-	-	-	-
HF HORN										
type	Elliptical	Elliptical	Elliptical	Elliptical	Elliptical	Elliptical	-	-	-	-
CROSSOVER SECTION										
crossover Frequency	1.8k	1.8k	1.8k	1.8k	850Hz/2.4k	1.8k	170Hz(LX-15B only)	150Hz(LX-18B only)	-	-
system Fb	50Hz	60Hz	40Hz	55Hz	40Hz	40Hz	42Hz	38Hz	38Hz	30Hz
hi pass out	-	-	-	-	-	-	120Hz(LX-15B only)	120Hz(LX-18B only)	-	-
RIGGING HARDWARE										
	12 x M10 flying inserts (LX-12E only)	no	12 x M10 flying inserts (LX-15E only)	no	no	no	no	no	no	no
ENCLOSURE TYPE										
finish (LX)	black carpet	black carpet	black carpet	black carpet	black carpet	black carpet	black carpet	black carpet	black carpet	black carpet
colour (LX-E)	paint black/white	paint black/white	paint black/white	paint black/white	paint black/white	paint black	paint black	paint black	paint black	paint black
construction (LX)	MDF/particle	MDF/particle	MDF/particle	MDF/particle	MDF/particle	MDF/particle	MDF/particle	MDF/particle	MDF/particle	MDF/particle
material (LX-E)	15mm plywood	15mm plywood	15mm plywood	15mm plywood	15mm plywood	18mm plywood	18mm plywood	18mm plywood	18mm plywood	18mm plywood

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STAND ADAPTOR	yes(Black only)	no	yes(Black only)	no	no	no	yes	yes	yes	yes
HANDLE										
type	square	square	square	square	square	square	square	square	square	square
quantity	2	2	2	2	2	3	2	4	2	4
GRILLE										
thikness (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
type	full steel	full steel	full steel	full steel	full steel	full steel	full steel	full steel	full steel	full steel
INPUT CONNECTOR										
speakon™ NL4 type	2	2	2	2	2	2	2	2	2	2
paralle with input										
connector	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
hi pass out connector	no	no	no	no	no	no	120Hz(LX-15B only)	120Hz(LX-18B only)	no	no
CASTOR	no	no	no	no	no	2	no	no	no	4(LX218E only)
PRODUCT DIMS. (mm)										
H	630	618	700	685.5	896	1138	615	715	545	541
W(front/rear)	396/269	426/426	470/319	500/500	470/319	506/356	470/275	570/336	545/545	1041/1041
D	396	450	450	493	450	461	559	652	650	650
WEIGHT (KG)										
net (LX/LX-E)	26.5/27.8	21.5/22.5	33.5/34.6	28.4/29.5	41.8/40.52	59.0/60.6	33.5/35.6	45.5/47.9	39.0/40.4	67.5/70.8
gross (LX/LX-E)	28.1/30.4	23.1/25.1	35.7/38.3	30.6/32.9	44.9/46.8	63.2/66.8	36.3/40.1	48.7/52.9	42.2/44.6	74.4/78.9