



115XT HiQ

COAXIAL STAGE MONITOR

The 115XT HiQ is the high end stage monitor within the L-ACOUSTICS® XT coaxial range. It operates as an active 2-way enclosure, over a frequency bandwidth from 50 Hz to 20 kHz which can be lowered to 32 Hz with the addition of the SB18 subwoofer.

The 115XT HiQ enclosure contains a 3" diaphragm compression driver loaded onto a constant directivity conical waveguide united in a coaxial configuration with a 15" low frequency transducer. Integrated into a compact low profile bass-reflex tuned enclosure this coaxial transducer arrangement produces a 50° axi-symmetric directivity output along with a smooth tonal response free of any secondary lobes over the entire frequency range, resulting in exceptional immunity to feedback especially in monitoring situations.

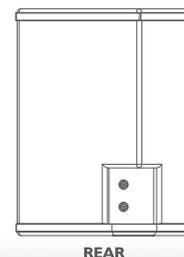
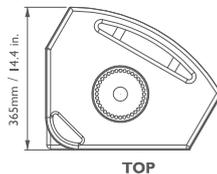
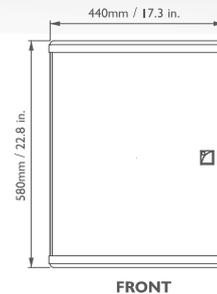
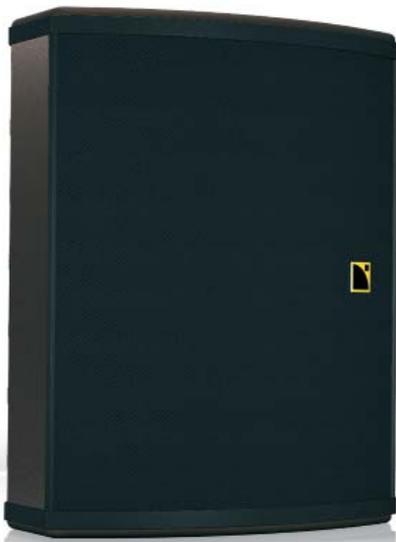
Having two fixed angle settings of 30° and 60° (with regard to the vertical) the wedge-shaped cabinet design makes the 115XT HiQ perfectly suited to short or long throw monitoring use. Made of high grade Baltic birch plywood, the cabinet also features a pole mount socket and the complimentary ETR15 bracket and XTLIFTBAR accessory can be used for flown applications.

The control and amplification of the 115XT HiQ is managed by the L-ACOUSTICS® LA8 platform. The active DSP filtering encompasses advanced crossover functions, system EQ, HF and LF transducer time alignment, and dual protection of the transducers (real time and RMS). The L-ACOUSTICS® LA8 amplified controller offers the following drive modes:

- "FULL RANGE" mode for 115XT HiQ standalone use at nominal bandwidth ([HIQ_FR], [HIQ_FI] or [HIQ_MO] presets)
- "HIGH-PASS" mode with 100 Hz high-pass filter to possibly associate the complimentary SB18 subwoofer ([HIQ_FR_100], [HIQ_FI_100] or [HIQ_MO_100] presets)

For each mode a distinction is drawn between [FRONT], [FILL] and [MONITOR] presets as they respectively match front of house, distributed applications and half-space loading operating conditions.

The performances of the 115XT HiQ enclosure depend upon the choice of preset and physical system configuration.



Usable bandwidth (-10dB)	50 Hz - 20 kHz
Nominal directivity (-6dB)	50° Axi-symmetric
Maximum SPL¹	139.5 dB ([HIQ_MO] preset) 136.5 dB ([HIQ_FI] preset)
RMS handling capacity	LF : 450 W ([HIQ_FI] preset) HF : 125 W ([HIQ_FI] preset)
Components	LF: 1 x 15" weather-resistant transducer HF: 1 x 3" diaphragm compression driver Nominal impedance: 2 x 8 ohms
Physical data	H x W x D: 365 x 580 x 440 mm - 14.4 x 22.8 x 17.3 in Wedge angle: 30° or 60° with regard to vertical Weight (net): 28.5 kg - 62.8 lbs. Connectors: 2 x 4-point Speakon® Material: 18, 24 and 30 mm Baltic birch plywood Finish: Grey-brown RAL 8019® Front: polyester-powder coated steel grill, acoustically transparent Airnet® cloth Rigging: integrated handles and pole mount socket, optional ETR15 bracket and XTLIFTBAR accessory

¹ Peak level measured at 1m under free field (FI) or half-space (MO) conditions using 10 dB crest factor pink noise with specified preset and corresponding EQ settings.



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COAXIAL SERIES

The XT coaxial series enclosures are primarily engineered for the rental market and deliver a complete sound reinforcement solution to fulfil the highest demands of audio professionals. The XT series delivers the ultimate sonic performance in a compact and versatile multi-tasking package. The system range and components are as follows:

- 8XT full range passive compact enclosure
- 12XT full range active / passive enclosure
- 115XT HiQ active reference floor monitor
- LA4 and LA8 amplified controllers.



The XT point-source technology is particularly valuable in distributed sound reinforcement applications where most listeners are located off the system axis. It is suited to semi-reverberant spaces where a single reflected source offers a more coherent radiation field with less reflected virtual sources than a traditional dual-horn-woofer combination. Point-source systems are also adapted to proximity applications such as stage monitoring, front-fills and under-balcony fills. Their radiation characteristics yield excellent phase response, total wavefront coherency at all frequencies, and axi-symmetrical directivity which produces identical coverage patterns in both the horizontal and vertical planes and a sound field stable over the entire frequency spectrum. The result is a natural, studio monitor sound quality and the aural sensation of transparent sound and an even sonic performance within the enclosure beamwidth.

The XT features the latest generation of transducers and cutting-edge electro-acoustics engineering design. Setting up XT enclosures is quick and easy due to the unique integrated flying hardware system which ensures precision, safety, and full compatibility with current rigging safety standards. Its compact and wedge-shaped format makes the XT range equally suited to various sound reinforcement applications such as front of house, floor monitor and distributed systems.

The XT are available as plug-and-play solutions with the L-ACOUSTICS® LA4 and LA8 amplified controllers. These come with a complete set of dedicated presets, providing the sound designer with total creative freedom for any conceivable application in theatres, clubs, concert halls, broadcast and multipurpose facilities.

As well as delivering cutting-edge audio quality, the amplified controllers offer unique dual-transducer protection system, precise system drive engine, remote EQ and system contour as well as tonal balance features. A single LA4 can power eight 8XT or four 12XT. A single LA8 can power twelve 8XT or eight 12XT at nominal SPL and up to twelve 12XT. The LA4 and LA8 also allow hybrid configurations with L-ACOUSTICS® enclosures and third-party enclosures with flat preset channels. In addition, for more demanding low-end reinforcement the SB18 subwoofer can be deployed as part of a 3-way system. This integrated package offers a high flexibility and a fast and easy set-up. It ensures performance consistency, predictability and the best possible component protection. Any XT configuration can be acoustically and mechanically modelled with SOUNDVISION 3D simulation software. The software predictions are modelled on the preset parameters of the amplified controllers.

The amplified controllers make the design of complex and sophisticated control systems possible with the integration of an Ethernet-based network capability which allows simultaneous networking up to 253 units. L-ACOUSTICS® LA NETWORK MANAGER software offers real-time remote control and monitoring of the amplified controllers via a user-friendly and intuitive graphic interface.



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SYSTEM COMPONENTS

8XT¹

Full range 2 way passive enclosure,
65 Hz - 20 kHz bandwidth



12XT¹

Full range 2 way active/passive enclosure,
55 Hz - 20 kHz bandwidth



115XT HiQ¹

Full range 2 way active enclosure,
50 Hz - 20 kHz bandwidth



1. See product spec sheet for more details.

LA4/LA8/LA NETWORK MANAGER¹

Amplified Controllers with DSP library.
Remote control software.



ETR8-2, ETR12-2, ETR15 AND XT LIFTBAR

Adjustable rigging brackets for 8XT, 12XT and 115XT HiQ
Rigging accessory for 12XT and 115XT HiQ



SOUNDVISION

Acoustical and mechanical simulation software
dedicated to L-ACOUSTICS[®] products.



CATT[®] AND EASE[®] DATA

WST[®] and point source balloon files exportable from SOUNDVISION
for use in CATT[®].

GLL files available for EASE[®] 4.2 and higher versions.

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SYSTEM CONFIGURATIONS

The LA4/8 platform allows for total flexibility in defining configurations and related applications for various L-ACOUSTICS[®] speaker systems including the XT range. Each individual XT model can be driven as a FOH sound system [FRONT], distributed system [FILL] or as a floor monitor [MONITOR]. The engineer can also choose the same preset programs

but with the inclusion of a 100 Hz high-pass filter if the system is to be used with the SB18 subwoofer, or simply to eliminate unwanted LF material in standalone mode. The LA4/8 presets optimize both sonic performance and transducer protection of the systems under all operating conditions. The preset libraries are structured as follows:

ACTIVE STEREO 2 WAY SYSTEMS

Mode	8XT Presets	12XT Presets	Contour	Application
FULL RANGE	[8XT_FR]	[12XTP_FR]	LF/HF shelving	FOH
	[8XT_FI]	[12XTP_FI]	Flat in free field	Distributed
	[8XT_MO]	[12XTP_MO]	Flat in half-space	Floor Monitor
HIGH PASS (100 Hz)	[8XT_FR_100]	[12XTP_FR_100]	HF shelving	FOH
	[8XT_FI_100]	[12XTP_FI_100]	Flat in free field	Distributed
	[8XT_MO_100]	[12XTP_MO_100]	Flat in half-space	Floor Monitor

PASSIVE STEREO SYSTEMS WITH SB18

Mode	8XT Preset	12XT Preset	Contour	Application
HYBRID (100 Hz Xover)	[8XT_SB18]	[12XTP_SB18]	HF shelving	FOH

HYBRID SYSTEMS AND FLAT PRESETS

Mode	8XT/12XT Preset Channel	Example 1	Example 2
HYBRID SYSTEMS & FLAT PRESETS	Can be combined with: • Any other passive system including subwoofers • 2 way active system	Channel 1: 8XT Channel 2: 12XT Channel 3: SB18 Channel 4: FLAT	Channel 1: 12XT Channel 2: SB18 Channel 3/4: ARCS

Creating hybrid configurations requires the use of LA-NETWORK MANAGER 1.2 software. LA4 and LA8 flat preset channels allow from one dedicated input channel the amplification of third party enclosures (access to mute, gain, delay, polarity and Contour EQ).

