



# **KEY FEATURES**

- High-Output Coaxial Active Stage Monitor
- Coaxial Transducers, 15" woofer, 1" HF compression driver hornloaded
- Single magnet neodymium motor
- 90° x 60° controlled coverage
- Dual angle monitor configuration (44° or 56°)
- CORE LT processing
- Digitally controlled Class D amplifier module with SMPS
- Dual-angle pole holder for multipurpose applications
- Very compact & lightweight with low-profile design

## **APPLICATIONS**

- Live Stage monitoring
- TV and broadcast
- Theatres
- Corporate and A/V
- House of Worship

# **TECHNICAL SPECIFICATIONS**

Frequency Response (±3dB)70 Hz – 18kHz (Processed)Horizontal Coverage Angle50° (-6dB)Wertical Coverage Angle70° (-6dB)Maximum (peak) SPL130 dB SPL @ 1mTRANSDUCERSLFOne 15" (380mm), 2.5"(50mm) voice coil, waterproof coneHFOne 1" driver, 1.7" (44mm) aluminium voice coil, polyimide diaphragm, horn-loadedELECTRICALInput Impedance20 kΩ balanced, 10 kΩ unbalancedInput Sensitivity+4dBu / 1.25VSignal ProcessingCORE LT digital processing, 24 bit AD/DA convertersControls5 Presets (NORMAL WEDGE/COUPLED UNITS/LOW CUT/FOH/ FOH LOW CUT)Amplifier TypeClass D with SMPSOutput Power900W + 300WMains Input ConnectorsNeutrik® XLR-M / XLR-FMains Input ConnectorNeutrik® powerCON™ (NAC3MPA)Mains Link ConnectorNeutrik® powerCON™ (NAC3MPA)Mains Link ConnectorNeutrik® powerCON™ (NAC3MPA)Dimensions630mm W x 376mm H x 427mm DTaperStage Monitor: 44° and 56°Pole holderOne on the side, dual angleEnclosure Material15mm, reinforced phenolic birchPaintHigh resistance, black water based paint	SYSTEM	
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Vertical Coverage Ångle   70° (-6dB)     Maximum (peak) SPL   130 dB SPL @ 1m     TRANSDUCERS     LF   One 15" (380mm), 2.5" (50mm) voice coil, waterproof cone diaphragm, horn-loaded     ELECTRICAL   One 1″ driver, 1.7″ (44mm) aluminium voice coil, polyimide diaphragm, horn-loaded     ELECTRICAL   Input Impedance     Input Sensitivity   +4dBu / 1.25V     Signal Processing   CORE LT digital processing, 24 bit AD/DA converters     Song Processing   CORE LT digital processing, 24 bit AD/DA converters     Controls   5 Presets (NORMAL WEDGE/COUPLED UNITS/LOW CUT/FOH/ FOH LOW CUT)     Amplifier Type   Class D with SMPS     Output Power   900W + 300W     Mains Voltage Range (Vac)   220-240 V~ or 100-120 V~ ±10% 50/60 Hz (internally selectable)     IN / OUT connectors   Neutrik® XLR-M / XLR-F     Mains Input Connector   Neutrik® powerCON™ (NAC3MPA)     Mains Link Connector   Neutrik® powerCON™ (NAC3MPA)     Mains Link Connector   Neutrik® powerCON™ (NAC3MPA)     Mains Link Connector   Neutrik® powerCON™ (NAC3MPA)     Dimensions   630mm W x 376mm H x 427mm D     Taper   Stage Monitor: 44° and 56°     Pole holder   One on the side, d	Frequency Response (±3dB)	70 Hz – 18kHz (Processed)
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Paint High resistance, black water based paint	Pole holder	One on the side, dual angle
	Enclosure Material	15mm, reinforced phenolic birch
Net Weight 19.7 kg / 43.4 lbs	Paint	High resistance, black water based paint
	Net Weight	19.7 kg / 43.4 lbs





### DESCRIPTION

The CXL15A is a coaxial stage monitor designed specifically for live sound, although the very compact, low-profile enclosure also makes it suitable for theatre and television applications. The combination of a high-performance coaxial transducer, a carefully designed cabinet, and powerful electronics provides very high SPL before feedback and excellent intelligibility even at very high power.

The transducer's coaxial design offers a very stable acoustical pattern in both the horizontal and vertical axes. The very compact, single magnet neodymium motor reduces the delay between the two sources, eliminating time and phase problems, and guarantees high performance with a consistent weight reduction.

The high frequency range is reproduced by a low-distortion compression driver equipped with a 1.7" aluminium voice coil and polyimide diaphragm. The custom designed horn

provides a precise and controlled dispersion of 50° horizontal and 70° vertical, allowing an excellent performance at close listening distance and, at the same time, a consistent off-axis coverage.

The 15" woofer employed in the reproduction of the low frequency range is equipped with a 2.5" voice coil. Thanks to a special treatment process that makes the cone water repellent, the CXL15A is able to perform in adverse weather conditions and is therefore suitable for outdoor use.

## **CABINET DESIGN**

The reduced size of the Baltic birch cabinet (only 37cm high and 63cm wide) makes the CXL15A a very compact and lightweight stage monitors and makes it suitable for all applications where unobtrusive size is a must. This includes not only live concerts, but also theatre shows and TV applications.

The reduced weight (less than 20 kg) and the handles on both sides of the cabinet make it very easy to transport the monitor and to position it on stage. A convenient dual-angle pole holder allows the CXL15A to be mounted on a standard speaker stand to be used as a multipurpose front of house loudspeaker.

The possibility to position the cabinet with two different angles to the floor (44° and 56°) enables it to be placed at differing distances from the musicians according to the size of the stage and to the kind of monitoring needed.



## SYSTEM PROCESSING

The system processing is based on the CORE LT DSP platform designed by the PROEL R&D Laboratories, featuring high-performance signal processing and high-definition 24bit converters, capable to deliver an outstanding sound definition and dynamic performance.

The CORE LT DSP makes it possible to set an optimal time alignment for the crossover filter resulting in a linear phase response. The correct acoustic filtering has been achieved using the Constant Power Crossover technique that, thanks to a particular phase relation, results in a very smooth transition between LF and HF and an even dispersion in the crossover region.

The CORE LT DSP signal processing includes a sophisticated Dynamic EQ, able to shape accurately the system's sound while maintaining a full dynamic range at any level. In addition the CORE LT DSP offers an extensive dynamic protection to the system, for getting always the maximum undistorted output.

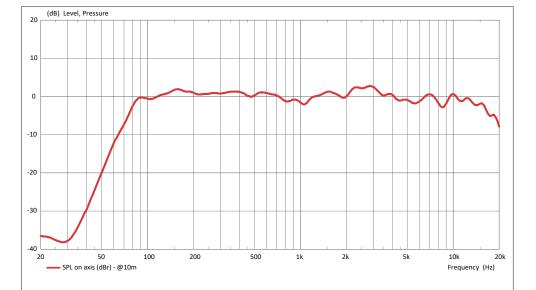
5 EQ PRESETS (NORMAL WEDGE, COUPLED UNITS, LOW CUT, FOH, FOH LOW CUT) can be easily selected to adapt the monitor to different kinds of application, including the use as a front-of-house system.



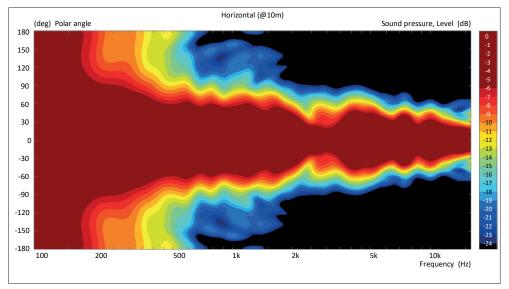




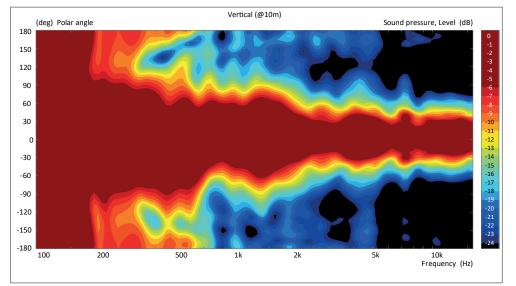
# CXL15A frequency response



# CXL15A HORIZONTAL directivity map

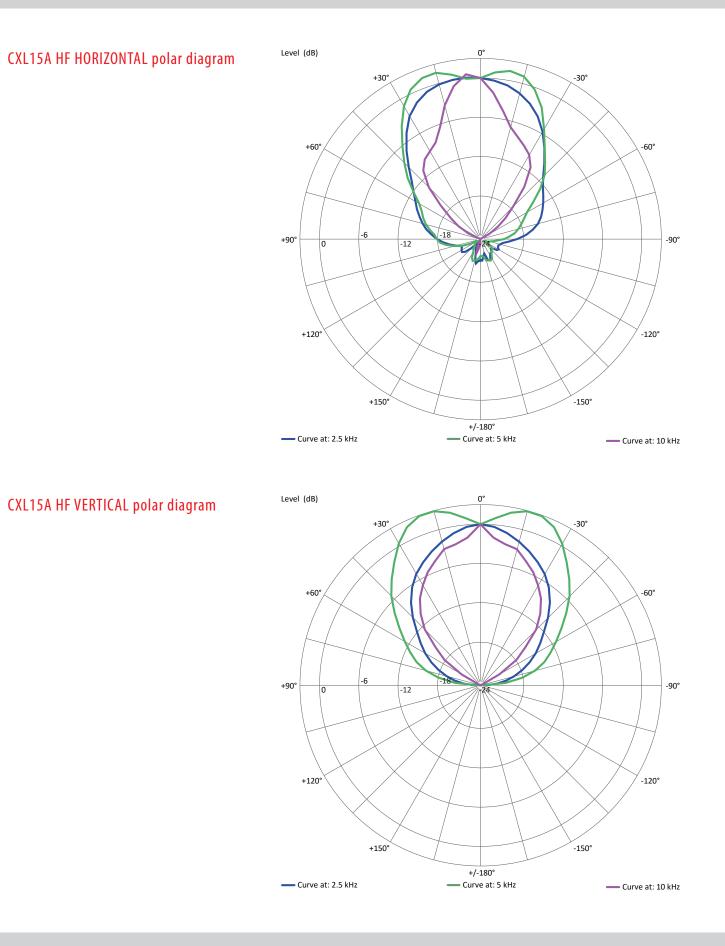


# CXL15A VERTICAL directivity map



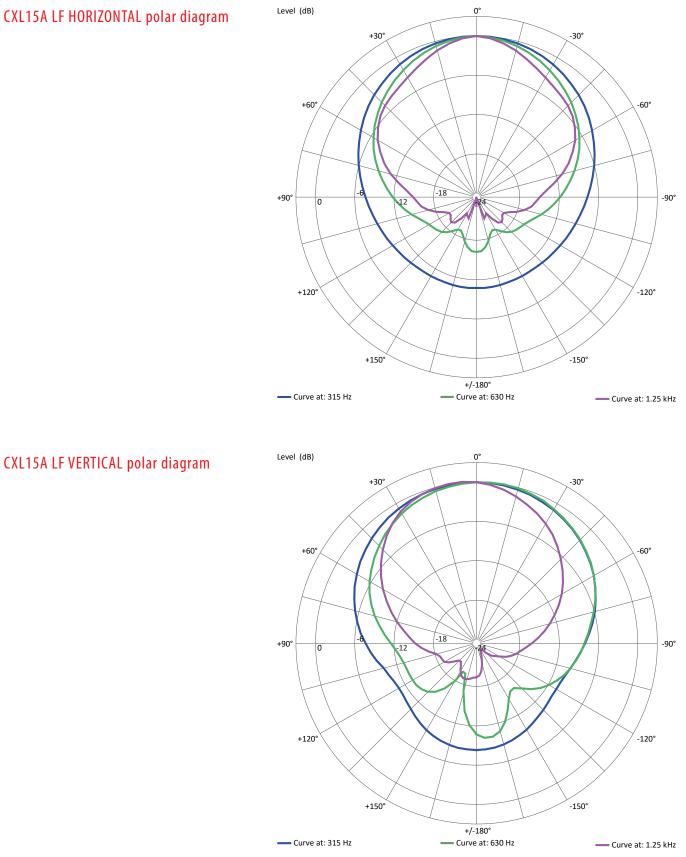


# CXL15A 15" (380mm) coaxial, High Output, Powered, CORE Processed, Stage Monitor





# **CXL15A** 15" (380mm) coaxial, High Output, Powered, CORE Processed, Stage Monitor





CXL15A

### **POWER AMPLIFIER**

The CXL15A is powered by a DA Series Class D power amplifier with SMPS. The innovative technology used for these amplifiers offers top-of-the-range performance, such as superior sound definition at any audio frequency, very high dynamics even for low level signals, and very low distortion even at maximum power.

The superior sound quality can be compared with top-of-the-range AB-class analogue systems, while the DA module features higher dynamic range, very compact size, light weight, and efficiency better than 90%. Output power is optimized specifically to the drive units for efficient power transfer, with the low frequency section producing 900 watts and 300 watts being available for the high frequency



compression driver. Input and link connections are via balanced 3-pin XLR connectors, and a ground lift switch is provided for humfree operation. Mains power is connected through a locking Neutrik<sup>®</sup> powerCON<sup>™</sup>, and a power out connector allows mains power to be linked to additional CXL12A cabinets.

### **ENGINEERING DRAWING**

