



PK CX215-90 | High Power Main Loudspeaker

FEATURES & BENEFITS

- High efficiency self-powered modules
- Exceptional fidelity and output
- Ultra low distortion
- Selectable DSP configurations
- Optional Cobranet & RLaB remote monitoring
- Wide 90 degree horizontal dispersion



The PK CX215-90 wide coverage, self-powered, two-way loudspeaker offers precise high output capability in a compact, efficient enclosure.

Exceptionally smooth frequency response across the entire coverage area, low distortion, and superior phase coherency are achieved through meticulous engineering and the highest quality components.

This speaker is suitable in trapezoidal arrays for main PA, stage monitoring, high power DJ monitors, side, front and down fill, including delays in large scale systems.

The high frequency section consists of a 3" Titanium diaphragm compression driver coupled to a 90x40 rotatable horn with outstanding pattern control. The combination assures unmatched transient response and even coverage across the entire control area.

A 1200w high power 15" low/mid transducer with a 4" voice coil and an extremely powerful external neodymium magnet assembly assure high flux concentration, low power

compression and excellent heat exchange, allowing for seamless midrange and extended low frequency response..

Convenient quick fly rigging provides efficient, arable flown configurations.

Each powered cabinet houses a high-efficiency 1500 watt class D amplifier with built-in TI DSP and an optional Cobranet remote interface. Innovative post-filter feedback class-D topology achieves ruler-flat frequency response, low distortion and high damping across the whole audio band. Amplifiers use the latest generation power MOSFET transistors and highly optimized output stage for up to 95% efficiency, allowing quiet fan-less operation achieving unprecedented power levels.

The cabinet is constructed from 100% void-free Baltic birch, CNC crafted to perfection

and coated in the industry's toughest ExL Polyurea finish. The finish is not only 100% waterproof and chemical resistant, but it also outlasts any other manufacturer's coating by years. This coating is easy to clean and maintain; a quick wipe-down and 10-year-old cabinets look like they just rolled off the production line. Perforated metal black grills lined with acoustic black foam further enhance the weather resistant properties of double-treated transducer cones.

CABINET DETAILS

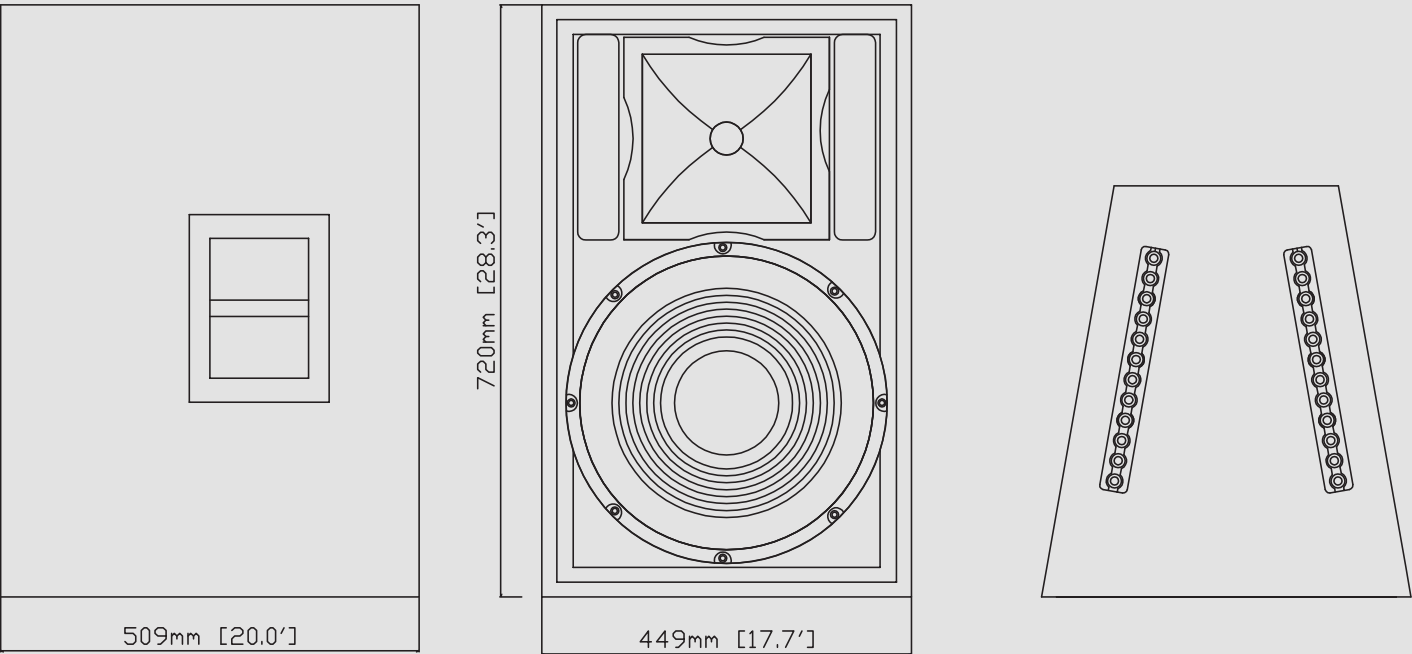
DIMENSIONS	17.7" w x 28.3" h x 20.0" d (449mm x 720mm x 509mm)
WEIGHT POWERED	82 lbs (37.2kg)
ENCLOSURE	13ply 18mm void free Baltic birch
FINISH	ExL Polyurea – Standard Black available in any color
GRILL	Perforated metal grill lined with acoustical black foam
RIGGING	L-Track

TRANSDUCERS

LOW – 15" HIGH EXCURSION NEODYMIUM	1200w AES
HIGH – 3" DIAPHRAGM 1.4" EXIT	200 w AES
NOMINAL IMPEDANCE	4ohm LF 8ohm HF

ACOUSTICAL

OPERATING FREQUENCY	40hz – 20kHz
FREE FIELD RESPONSE	65hz – 18kHz + -3db
MAX SPL @ 1M	136db
HORIZONTAL COVERAGE	90°
VERTICAL COVERAGE	40°



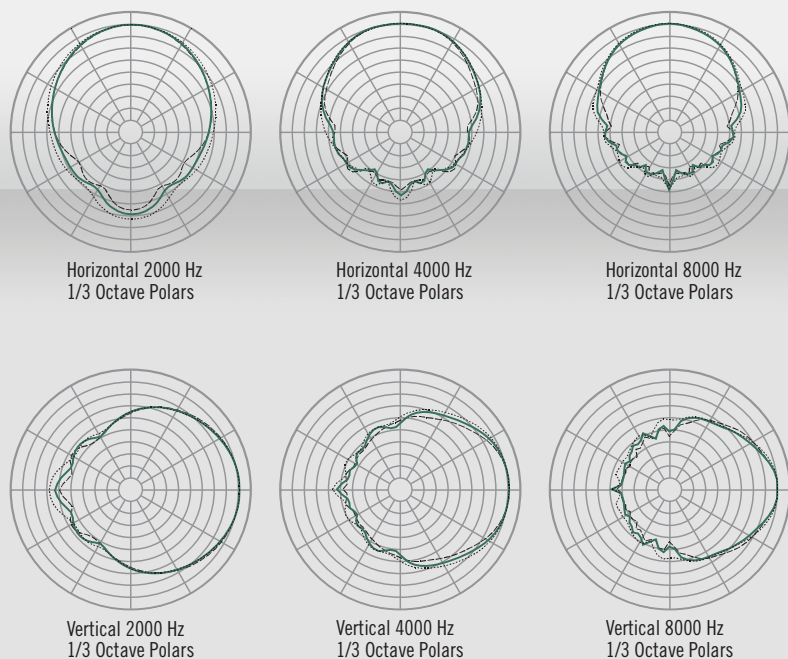


FIGURE 1: CX215 – 90 Polar Dispersion



AMPLIFIER

TYPE	Class D – 300kHz Switching
EFFICIENCY	Up to 95%
POWER	1500 W
THD+N	>0.02%
DAMPING FACTOR	>200
INPUT	Balanced XLR
INPUT IMPEDANCE	50K ohm
OUTPUT	Balanced XLR
REMOTE CLIP MONITORING	Optional
COBRANET	Optional
DSP IN (WITHOUT COBRANET)	90hz HP 24db/oct
DSP OUT (WITHOUT COBRANET)	40hz HP 24db/oct

AC POWER

VOLTAGE	90–132VAC (190–255 Optional)
CONNECTOR	Neutrik Powercon
CONTINUOUS MAX CURRENT CONSUMPTION	10 amps (120VAC)