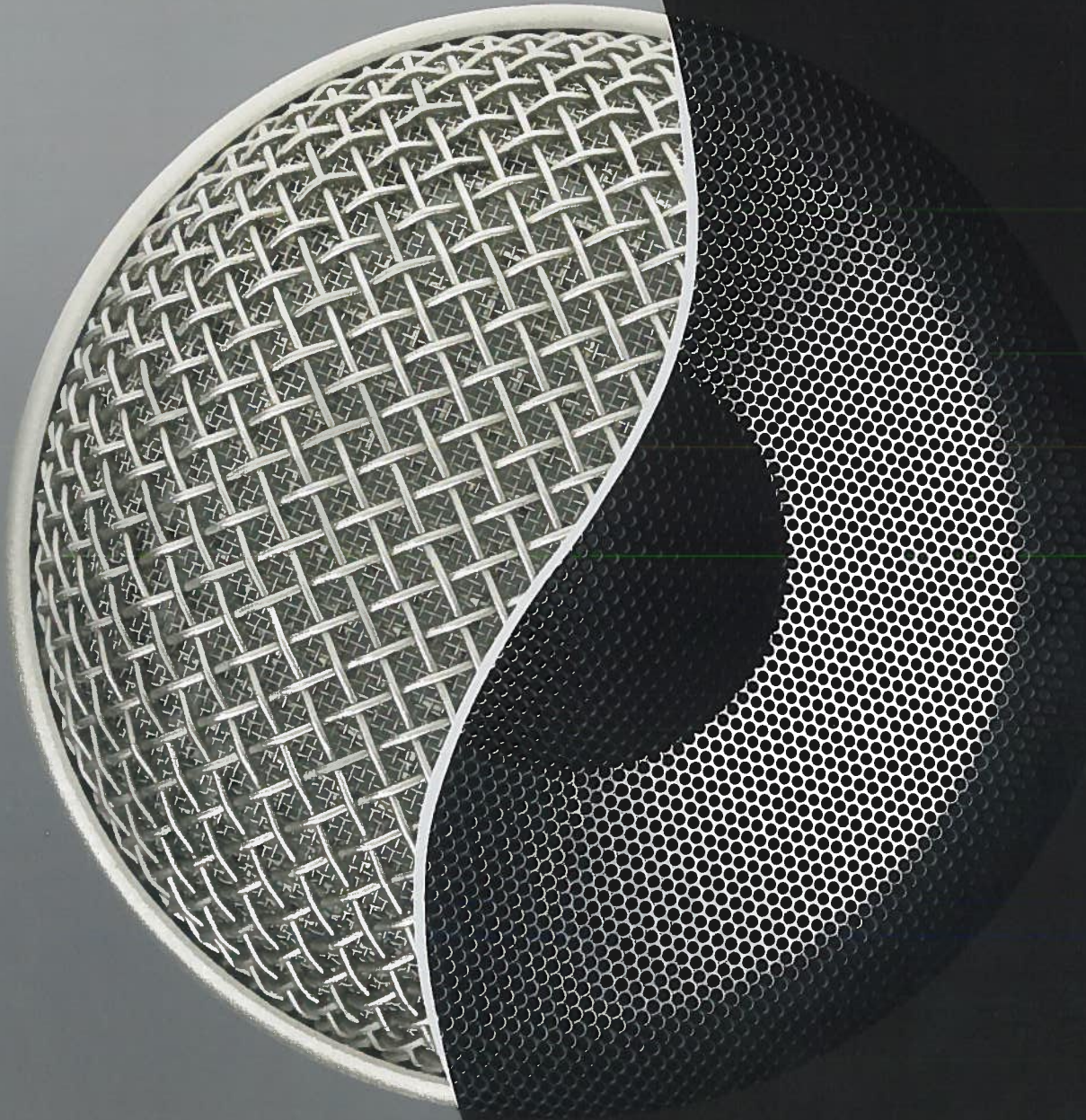




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Product Highlights

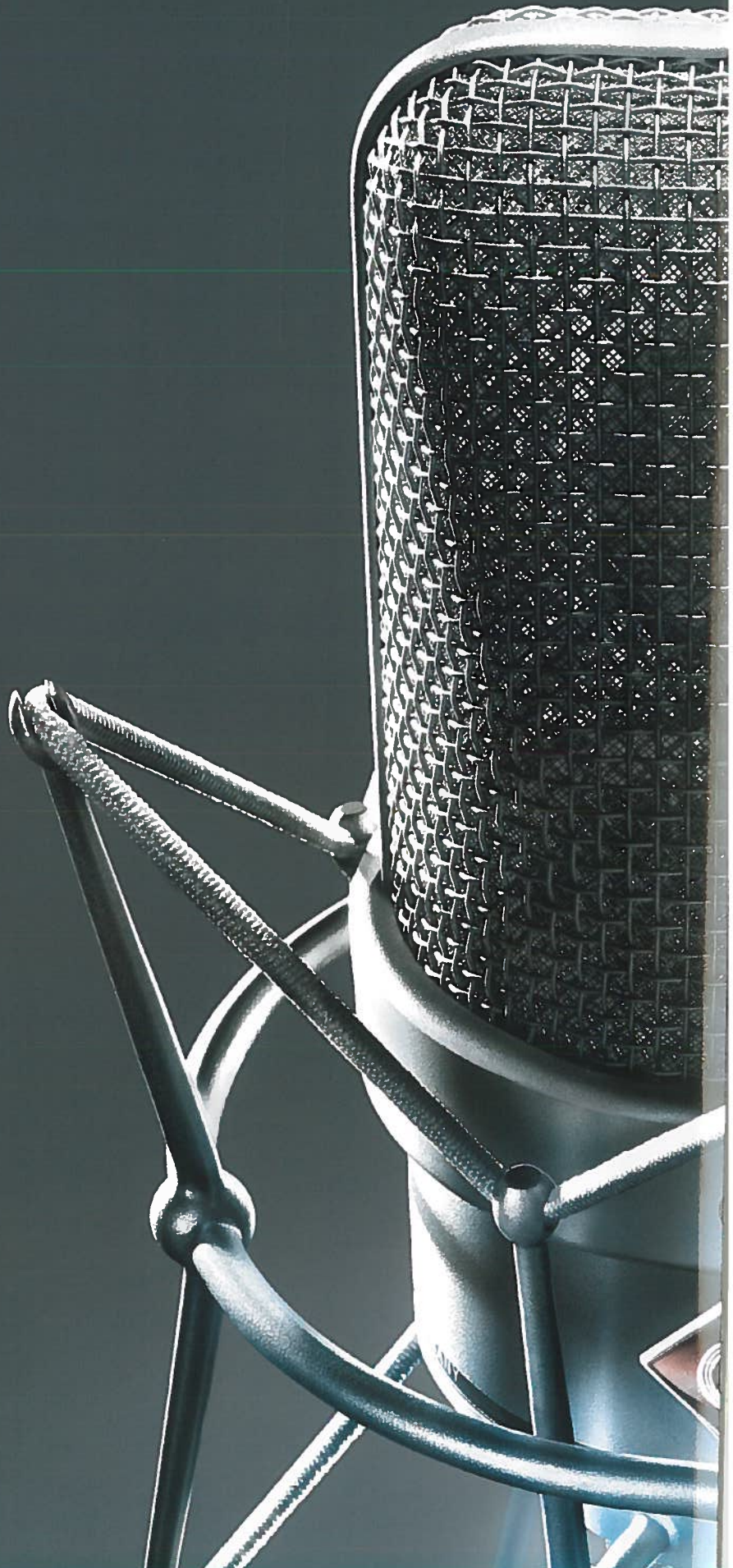


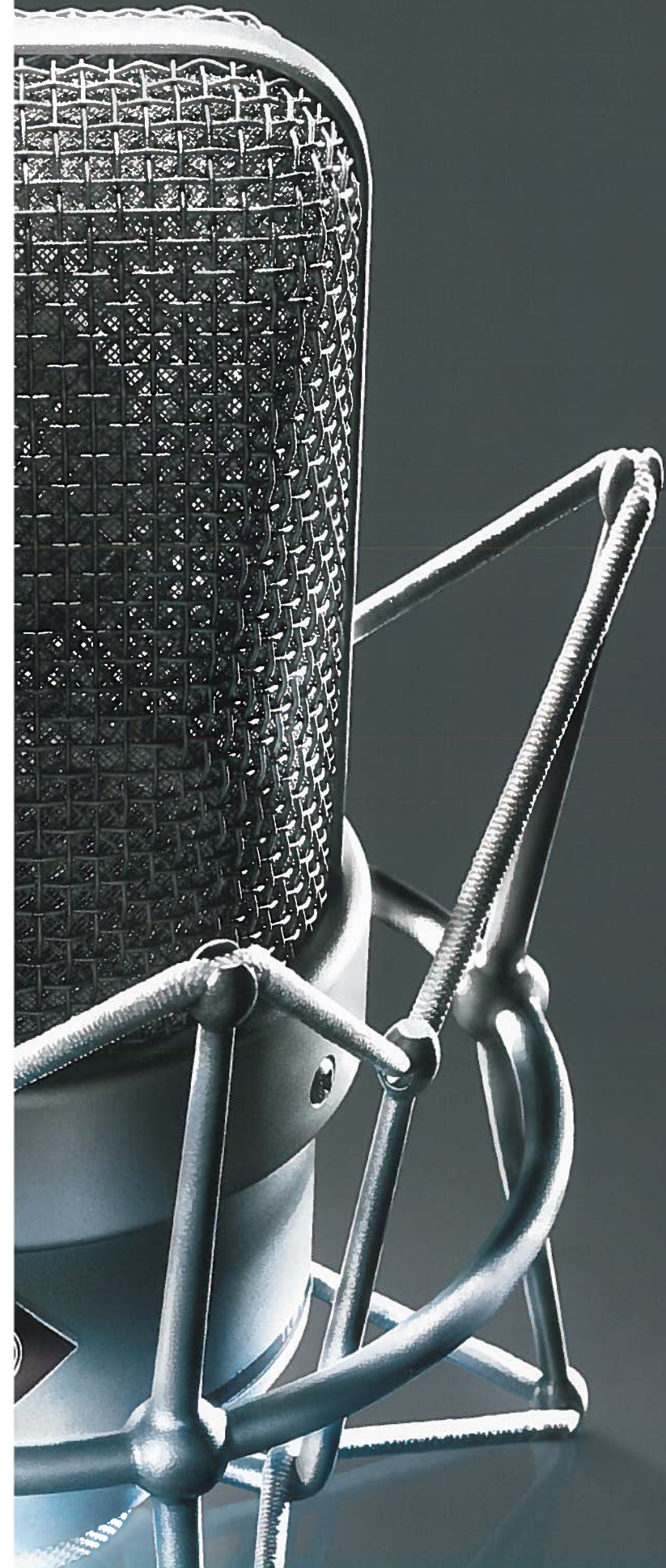
NAMM 2013



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For decades, Neumann has been regarded worldwide as the standard-setting, leading manufacturer of studio microphones. Many products introduced in the history of the company have become milestones of professional audio technology. It is no accident that when listing their equipment, audio studios almost always put Neumann microphones at the top of the list – they are a recognized sign of a highly professional operation.





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- 03 U 87 Ai
 - 04 TLM Microphones
 - 07 KMS Microphones
 - 09 Studio Monitors
-



The linear solid-state capsule amplification of a field effect transistor is combined with the classic character of a transformer-balanced output stage.

U 87 Ai

The Neumann classic. It is the world's most widely used large-diaphragm condenser microphone. Three directional characteristics and a switchable pre-attenuation ensure suitability for a wide range of applications. Also available as a stereo set in an aluminum case or as a studio set, incl. elastic suspensions.



Signs and Symbols:

Directional Characteristics:

- Cardioid
- Figure-8

- Wide angle cardioid
- Hyper-/Supercardioid
- Lobe

- Omnidirectional
- Hemispherical
- Omni free field equalized

- Omni diffuse field equalized
- Cardioid, low frequency roll-off




The transformerless output circuitry ensures an extremely high dynamic range, accurate handling of all frequencies and an output sufficient to drive even the longest cable runs. Like traditional transformers, it provides good common mode rejection, and prevents RF interference that could affect the balanced audio signal.



TLM 49

Studio microphone with a retro look. Warm sound, optimized for vocal recordings. The capsule is derived from that of the legendary U 47 and M 49. Set includes elastic suspension.



Features:

-  High-Cut Filter
-  Low-Cut Filter
-  Switchable Low-Cut Filter

-  Remote Controllable
-  Pad

Colors:

-  Matte Black
-  Nickel
-  Black
-  Nextel Black
-  Nickel/Pearl Grey
-  Stainless Steel



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LARGE DIAPHRAGM MICROPHONE

TLM 102

The TLM 102 defines a new generation of Neumann studio microphones. It is ideal for applications in home recording and broadcasting, especially for vocals (high speech intelligibility), acoustic guitars, percussion, drums and recording guitar amplifiers (high max. SPL).



TLM 103

The standard for home recording and the music industry. This mic is for anyone who, despite budget constraints, does not want to live without the true Neumann sound. Cardioid directional characteristic and very low self-noise. Also available as studio set, including elastic suspension, and as stereo set.





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VOCAL MICROPHONE



The legendary Neumann sound takes to the stage! The high acoustic resolution and smooth frequency response of KMS microphones ensure that artists have ideal control of their stage performances at all times. They are the microphones of a lifetime!

KMS 104 / 104 plus

With a cardioid directional characteristic, the KMS 104 excels at suppressing sounds originating from behind the microphone.

With an extended bass frequency response, the KMS 104 plus is designed especially for female voices in the rock and pop field.

Thick-walled, robust metal housing. Includes stand clamp and padded nylon bag.




KMS 104 plus
P48


KMS 104
P48



KMS 105

The KMS 105, with its supercardioid directional characteristic, provides further sound isolation on large, busy stages. It's foamless basket allows the sparkling vocal highs to shine through. Thick-walled, robust metal housing. Includes stand clamp and padded nylon bag.





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BEST INPUT. BEST OUTPUT.

Neumann is well-known in the audio industry for its high quality microphones in studios, broadcast, and on stage. Neumann has also been a pioneer in the audio industry for over 80 years with a long history of world-class products. These products have kept Neumann on the cutting edge of technology – from mixing consoles and disc cutting lathes, to more recent innovations in digital technology with the Solution-D system.

The Neumann KH 120

The KH 120 studio monitor is designed for use as a near-field loudspeaker or as a rear loudspeaker in larger multi-channel systems. The KH 120 represents the latest in acoustic and electronic simulation and measurement technologies to ensure the most accurate sound reproduction possible. It has a Mathematically Modeled Dispersion™ waveguide (MMD™), flexible acoustical controls, analog class-AB amplifiers, various input formats and an extensive mounting hardware range. All of this provides the user with the maximum versatility over a wide variety of acoustic conditions, source equipment, and physical locations.

A subwoofer, such as the Neumann KH 810, with its 7.1 High Definition Bass Manager™, can be added to deepen the low-frequency response to 18 Hz and increase the system's maximum output level. The KH 120 is perfect for tracking, mixing and mastering in music, broadcast, project and post-production studios.



Powerful alloy fabric dome

- ▶ Low-distortion high-frequency reproduction

4-position bass, low-mid and treble acoustical controls

- ▶ More control in diverse acoustical environments

Elliptical Mathematically Modelled Dispersion™ (MMD™) waveguide

- ▶ Smoother off-axis response
- ▶ More forgiving of diverse acoustical environments

Wide range input gain and output level controls

- ▶ Easier interfacing with signal sources

Composite sandwich cone

- ▶ Damping of break-up modes

New mounting hardware options

- ▶ More flexibility in mounting cabinets in more diverse locations

Long throw bass driver

- ▶ Low distortions at high sound levels

Display dimmer

- ▶ For low lighting level conditions or behind the screen applications

Two-color + dimmable Neumann logo

- ▶ Displays operation status and activation of the extensive protection system

Ground lift

- ▶ Reduced noise in electrically noisy environments and overcomes ground loops

Robust metal grille

- ▶ Protects against mechanical damage

Universal switched-mode power supply (100 ... 240 V)

- ▶ One version works in any country and robust to poor quality mains supply

Large front panel ports

- ▶ Reduced bass compression and easier to mount in tight spaces such as OB vans

XLR analog input

- ▶ XLR connector and 24 dBu headroom for interfacing to any professional analog source equipment

Compact aluminum cabinet (magnetically shielded)

- ▶ Minimizes resonances, better heat dissipation, long life



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BEST INPUT. BEST OUTPUT.



The Neumann KH 310 A

The KH 310 A is an active near-field monitor for demanding applications in the areas of music production, broadcasting, post-production, mixing and mastering. It is also excellently suited for use as a front loudspeaker in medium-sized surround systems, or as a rear loudspeaker for larger multi-channel systems.

The drivers, all developed by Neumann, have been adapted to one another using acoustic simulations and an extensive series of measurements. A long-throw bass driver ensures low distortion even at high sound pressure levels.

The mid-frequencies essential for speech and vocals are reproduced with exceptional precision by a dedicated mid-range driver. High frequencies are handled by an alloy fabric dome in an elliptical Mathematically Modeled Dispersion™ (MMD) waveguide. The result is a transparent reproduction with a wide usable listening area while minimizing reflections in the vertical plane.

Thanks to a sealed cabinet and acoustic controls for bass, low-mid and high frequencies, the KH 310 A is also a problem-solver for acoustically challenging spaces such as smaller project and post-production studios and OB vans.

Powerful alloy fabric dome

- ▶ Low-distortion high-frequency reproduction

Elliptical Mathematically Modelled Dispersion™ (MMD™) waveguide

- ▶ Smoother off-axis response
- ▶ More forgiving of diverse acoustical environments

Long throw bass driver

- ▶ Low distortions at high sound levels

Composite sandwich cone

- ▶ Damping of break-up modes

Ribbed surround

- ▶ Reduces radial standing waves

Compact sealed horizontally-oriented cabinet (magnetically shielded)

- ▶ Easy to install into tight spaces, no standing wave resonances, fastest bass transient response, reduced acoustical and visual obstruction of main monitors and live room.

Midrange driver

- ▶ Dedicated driver reproduces important midrange frequencies and reduces Doppler effect which reduces intermodulation distortion
- ▶ New lightweight dome driver design with neodymium magnet has very high sensitivity which reduces distortion

Two-color + dimmable Neumann logo

- ▶ Displays operation status and activation of the extensive protection system modes

4-position bass, low-mid and treble acoustical controls

- ▶ More control in diverse acoustical environments

Wide range input gain and output level controls

- ▶ Easier interfacing with signal sources and highest achievable signal-noise ratio

Display dimmer

- ▶ For low lighting level conditions or behind the screen applications

Ground lift

- ▶ Reduced buzzes in electrically noisy environments and overcomes ground loops

XLR analog input

- ▶ XLR connector and 24 dBu headroom for interfacing to any professional analog source equipment

Robust and reliable electronic design

- ▶ Powerful 210 + 90 + 90 Wpk amplifiers give an excellent transient response
- ▶ Large efficient heatsink
- ▶ Independent thermo limiters for woofer, midrange and tweeter to protect the voice coils. Woofer soft clip and excursion limiters

Universal switched-mode power supply (100 ... 240 V)

- ▶ One version works in any country and robust to poor quality mains supply

Mounting hardware options

- ▶ Great flexibility for mounting cabinets in diverse locations





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SUBWOOFER KH 810



The Neumann KH 810

The KH 810 subwoofer is designed to complement our extensive range of monitors, and can be used on its own, or daisy-chained to make larger systems capable of higher SPL. The KH 810 can be used in music, broadcast, and post production studios for tracking, mixing, and mastering. The cabinet can be positioned next to a wall or flush mounted into a wall due to the front mounted port, and can be mixed freely in multichannel systems with other loudspeakers from our range.

▶ 7.1 Inputs/Outputs, compatible with all formats from mono to HD, and beyond

▶ Bass management with 4th order, 80 Hz crossover: compatible with typical systems

▶ Built-in 8 channel system volume control with remote control NRC 1 and RS-232

▶ 4-mode LFE routing: compatible with music and movie industries

▶ Independent switchable surround/back channel bass management

▶ Extensive acoustical controls: low cut, parametric EQ, phase (with built-in calibration test tone), input/output level

▶ Switchable mains voltage with remote power on

▶ Ground lift on all inputs

▶ Sum output for multiple subwoofer systems: higher SPL, decreased system distortion, Plane Wave Bass Array™ (PWBA™) to reduce lateral room effects

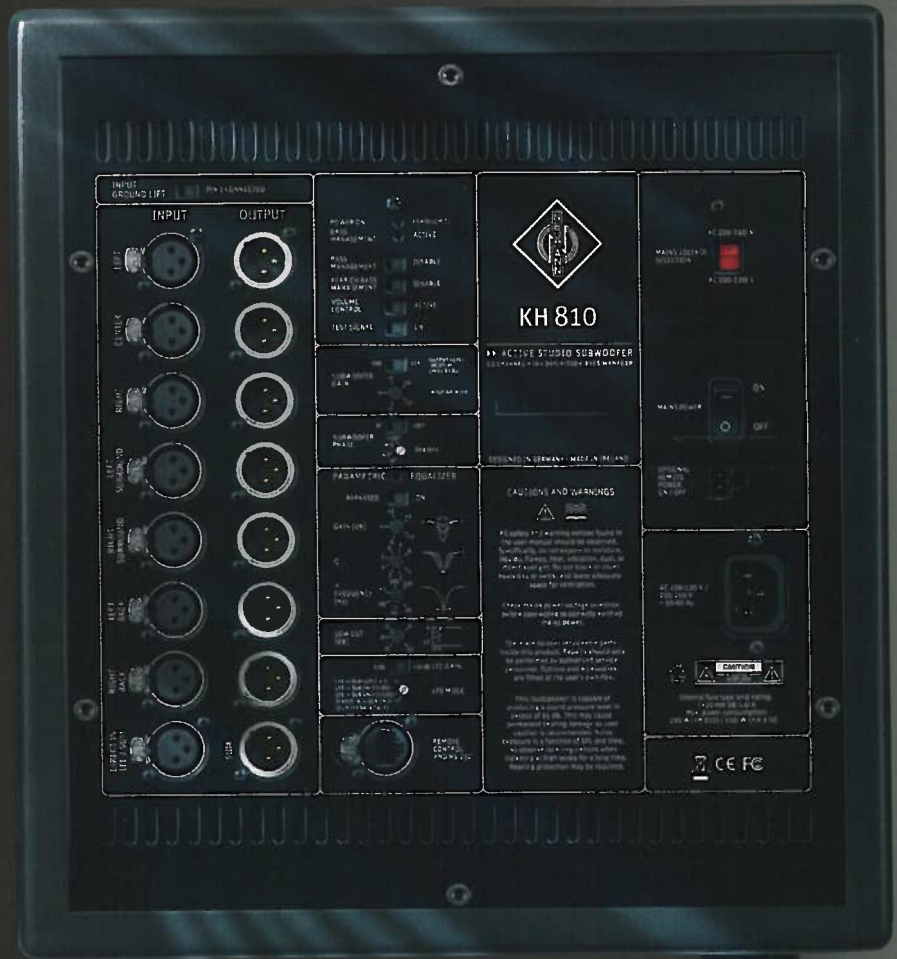
▶ Well-braced cabinet with extremely low tuning frequency minimizes unwanted resonances

▶ Long excursion, low distortion, magnetically shielded 10" driver

▶ Bass compression is minimized using large capacity low turbulence dual reflex ports

▶ Latest efficient low heat dissipation power amplification techniques

▶ Electronics can be remote located (REK 3 + SC nn) for reduced cabling and ease of installation and use



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