

Product Overview



KH 310 A L

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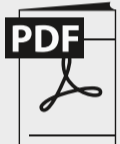
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THREE-WAY ACTIVE LOUDSPEAKER



- Quick Guide
- Kurzanleitung
- Guide rapide
- Guida rapida
- Guía de inicio rápido
- Guia rápido
- Beknopte handleiding
- Krótka instrukcja obsługi
- Snabbguide
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- Pikaohje
- Γρήγορος οδηγός
- Kısa kılavuz
- Краткая инструкция
- 简要说明
- 快速使用指南
- クイックガイド
- 요약 안내서



Instruction manual | Bedienungsanleitung | Notice d'emploi | Istruzioni per l'uso | Instrucciones de manejo | Manual de instruções | Gebruiksaanwijzing | Instrukcja obsługi | Bruksanvisning | Betjeningsvejledning | Käyttöohje | Οδηγίες λειτουργίας | Kullanım kılavuzu | Инструкция по эксплуатации | 使用说明书 | 使用説明書 | 取扱説明書 | 사용 설명서 |

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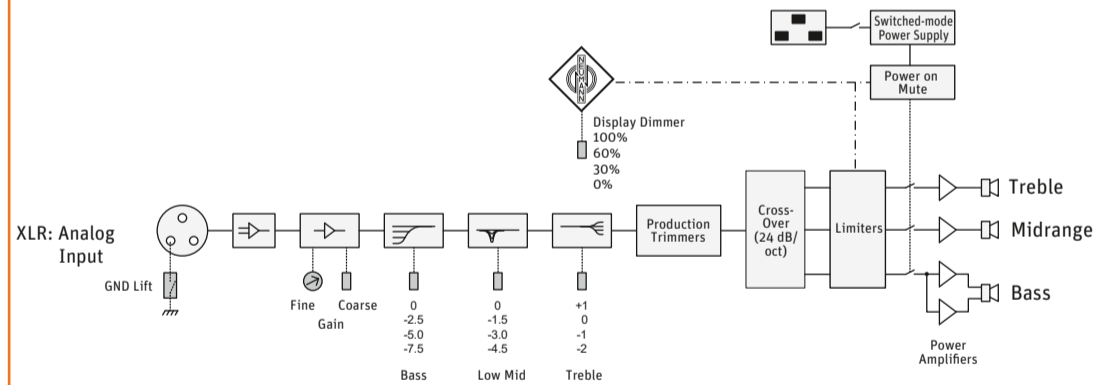
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Acoustics	
Free field frequency response	34 Hz to 21 kHz ±3 dB
Pass band free field frequency response	36 Hz to 20 kHz ±2 dB
Self-generated noise ((INPUT GAIN set to 0 dB, OUTPUT LEVEL set to 100 dB SPL)	< 20 dB(A) SPL at 10 cm
Total harmonic distortion < 0.5 % at 95 dB SPL at 1 m	> 85 Hz
Max. SPL in full space / calc. in half space at 3 % THD at 1 m, averaged between 100 Hz and 6 kHz	110.3 dB SPL / 116.3 dB SPL
Bass capability: Max. SPL in half space with 3 % THD at 1 m, averaged between 50 Hz and 100 Hz	104.5 dB SPL
Max. short term SPL with IEC-weighted noise (IEC 60268-5) at 1 m, in typical listening conditions	113 dB(C) SPL
Max. short term SPL with music material at 2.3 m, in typical listening conditions (pair)	100 dB(C) SPL (full range)
Max. long term SPL with pink noise at 2.3 m, in typical listening conditions (single/pair)	107 dB(C) SPL (with subwoofer)
Max. long term SPL with pink noise at 2.3 m, in typical listening conditions (single/pair)	93/99 dB(C) SPL (full range)
Max. long term SPL with pink noise at 2.3 m, in typical listening conditions (single/pair)	94/100 dB(C) SPL (with subwoofer)
Electronics	
Woofer Class AB amplifier, continuous (peak) output power	150 W (210 W), THD and noise < 0.1 % with deactivated limiter
Midrange Class AB amplifier, continuous (peak) output power	70 W (90 W), THD and noise < 0.1 % with deactivated limiter
Tweeter Class AB amplifier, continuous (peak) output power	70 W (90 W), THD and noise < 0.1 % with deactivated limiter
Controller design	analog, active
Crossover frequency; crossover slope	650 Hz, 2.0 kHz; 24 dB/oct., 4 th order
Acoustical controls	Bass: 0, -2.5, -5, -7.5 dB Low-mid: 0, -1.5, -3, -4.5 dB Treble: +1, 0, -1, -2 dB
Analog input	
Input type	XLR, electronically balanced
Input gain control (sensitivity)	0 dBu to -15 dBu
Output level control	94, 100, 108, 114 dB SPL
Maximum input level	24 dBu (ANALOG) 18 dBu (ANALOG DELAYED)

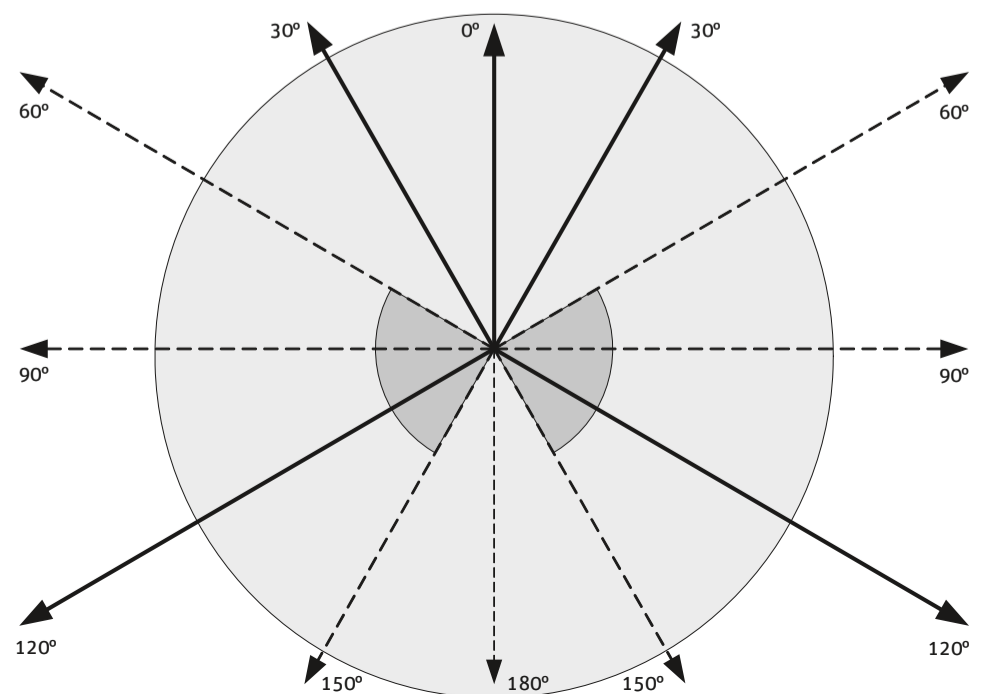
Product properties	
Power supply	100 to 240 V~, 50/60 Hz
Power consumption (idle)	25 W
Power consumption (full output AC)	300 W
Dimensions (H x W x D)	253 x 383 x 292 mm (10" x 15 1/8" x 11 1/2")
Weight	13.0 kg (28 lbs 11 oz)
Drivers	magnetically shielded
bass, midrange, treble	210 mm (8 1/4"), 75 mm (3"), 25 mm (1")
Threaded inserts for Neumann mounting hardware	2 x M8 on rear panel with depth 25 mm (5/8")
Cabinet surface finish, Color	Painted wood and polyurethane, Anthracite (RAL 7021) or other RAL color. Rear panel: Aluminium, black anodized.

A complete list of specifications can be found on the product page at www.neumann.com.

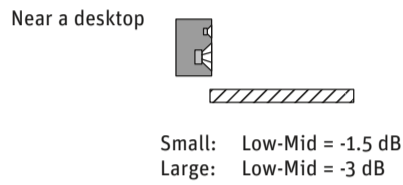
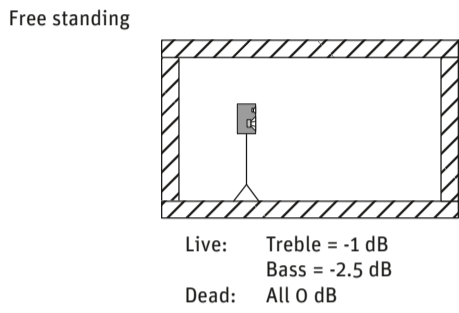
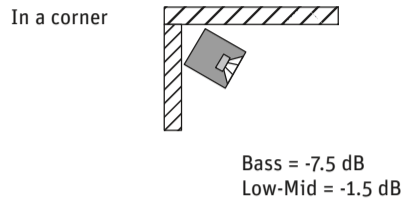
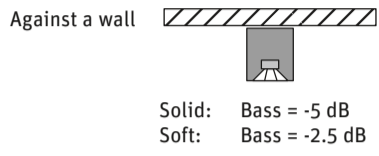
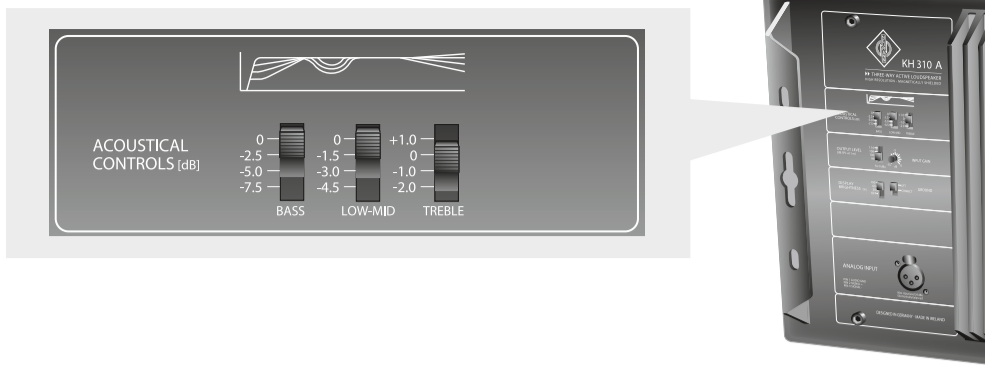
Block diagram



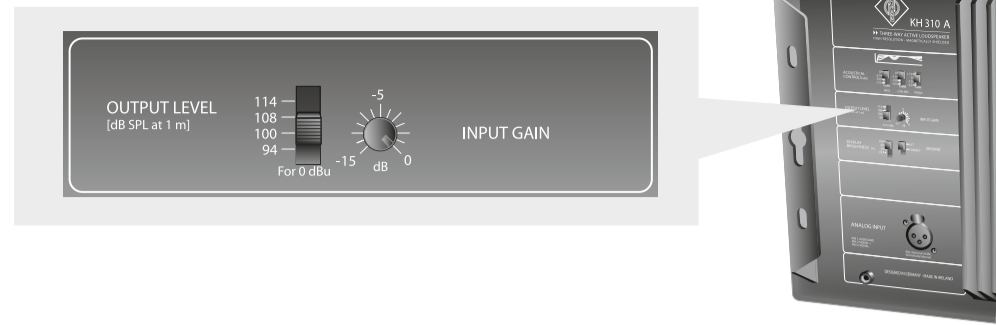
Installation angles



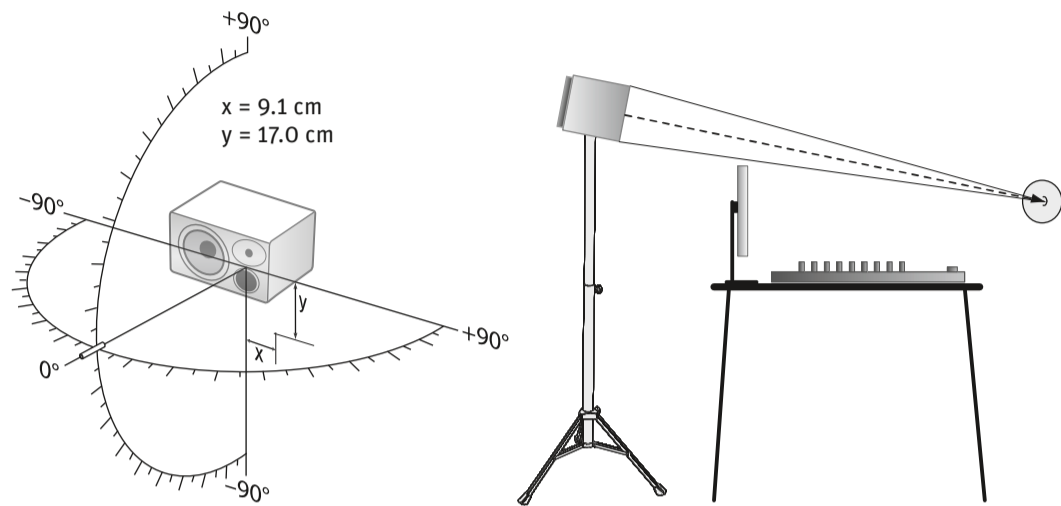
Acoustical controls



Output level / Input gain



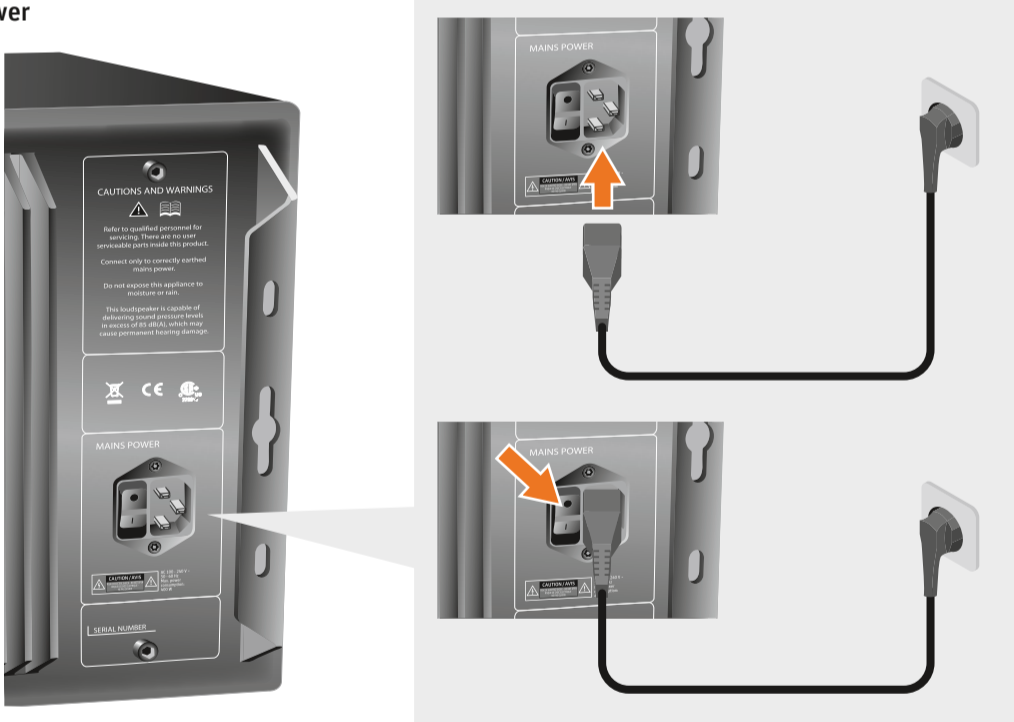
Acoustical axis



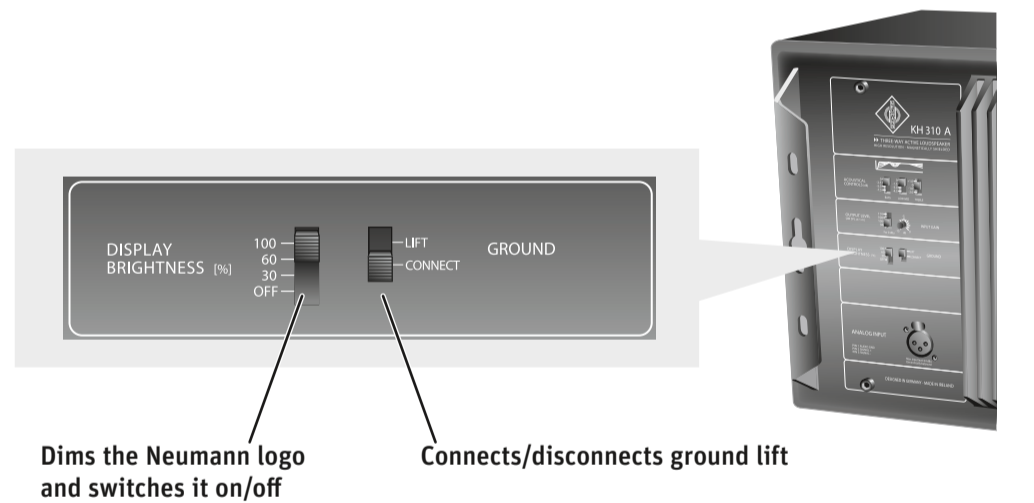
A detailed instruction manual can be found at: | Eine ausführliche Bedienungsanleitung finden Sie unter: | Vous trouverez une notice d'emploi détaillé sur : | Le istruzioni per l'uso dettagliate sono disponibili su: | Encontrará unas instrucciones de manejo detalladas en: | Consulte o manual de instruções detalhado em: | Een uitvoerige gebruiksaanwijzing staat onder: | Szczegółowa instrukcja obsługi jest dostępna na: | En utförlig bruksanvisning kan hämtas på: | Du kan finde en udførlig betjeningsvejledning på: | Yksityiskohtainen käyttöohje on saatavissa kohdasta: | Οι αναλυτικές οδηγίες λειτουργίας διατίθενται: | Ayrıntılı bir kullanım kılavuzu için bkz: | Подробную инструкцию по эксплуатации можно найти здесь: | 获取详细的使用说明书请访问: | 若要取得詳細的使用說明書, 請造訪: | 詳しい取扱説明書は以下でご覧ください: | 상세 사용 설명서는 다음 주소에 있습니다.

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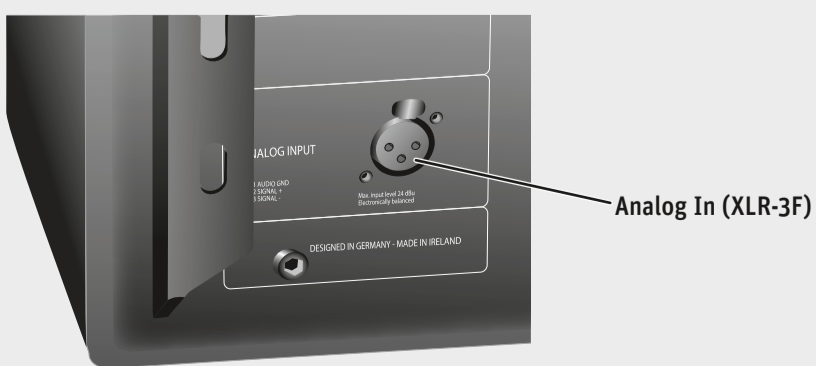
Power



Display brightness / Ground lift



Analog audio



RCA to XLR adapter

