

SL4240/SL4240-WH

Surface-Mounted 100-Watt, 8" Loudspeaker



Features

- High-performance, surface-mountable loudspeaker for foreground music, AV playback and distributed sound
- Exceptional sound quality with wide frequency bandwidth and uniform dispersion
- 100-Watt, 8" low-frequency transducer provides exceptionally wide frequency response
- 1" high-frequency transducer with conical waveguide delivers 120° dispersion for maximum coverage
- Switchable full-range and high-pass satellite operation modes for maximum versatility
- Professional 4-pole Euroblock connector
- 70.7V taps @ 7.5, 15, 30 & 60 Watts, 100V taps @ 15, 30 & 60 Watts
- 16 Ohm transformer bypass mode allows up to 4 units to be powered from any 4 Ohm amplifier
- Contemporary composite enclosure for low-resonance performance
- Included dual-axis mounting hardware provides 90° V and 180° H alignment
- Detachable powder-coated steel grille and contemporary aesthetic compliments any decor
- Weather resistant design for use in indoors or protected outdoor areas
- High-quality components and exceptionally rugged construction ensure long life

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Product Overview

The EUROCOM SL4240 is a professional high-performance surface-mount loudspeaker system that is ideal for a wide variety of interior fixed installation applications involving foreground music, AV playback, or distributed sound reinforcement. Offered as part of the SL Series of complementary surface-mount loudspeakers, the SL4230 delivers studio-grade sound in a compact package that fits easily and unobtrusively into limited space.

The SL4240 features an 8" / 200 mm low frequency driver and a 1" / 25 mm high frequency driver, with a nominal impedance of 16 Ω and a switchable selector for use in either in low or high-impedance mode. Power taps are provided for high-impedance operation at 7.5, 15, 30 or 60 W for 70 V systems and 15, 30, or 60 W for 100 V systems. For maximum versatility, a high-pass filter is provided to enable satellite operation mode, making the SL4240 perfect for use as a satellite speaker in conjunction with the SL4208S subwoofer.

Housed in a ported enclosure of low-resonance molded composite, the SL4240 leaves behind the boxy shape of traditional surface mount speakers, offering instead a sleek look with smooth curves that enhance the ambiance of any location. The front face is finished with a detachable foam-backed wire-mesh steel grille, available in black or white, that is trimmed with an elegant smoked-chrome rim. The innovative SL Series brushed-aluminum mounting yoke (included) offers 180 degrees pan, 90 degrees tilt, allowing for optimum loudspeaker aiming. An optional ball mount is also available for concealed-wire installations.

Combining performance and versatility in a compact, stylish loudspeaker that looks good anywhere, the EUROCOM SL4240 is an excellent choice for any surface-mounted installation requiring top quality sound and exceptional value.

Technical Specifications

• Frequency range (-10 dB)	50 Hz - 20 kHz
• Frequency response (± 3 dB)	85 Hz - 20 kHz
• Nominal dispersion	120°
• Directivity Factor (Q)	5.0 (avg. 500 Hz - 16 kHz)
• Directivity Index (DI)	7.0 dB (avg. 500 Hz - 16 kHz)
• Sensitivity (1 W @ 1 m passive, half-space)	89 dB
• Power handling (long term)	60 W RMS
• Maximum continuous SPL (passive)	107 dB
• Maximum peak SPL (passive)	113 dB
• Crossover modes	Transformer, Passive
• Crossover frequency	2.2 kHz
• Transformer	70 V: 60 W, 30 W, 15 W, 7.5 W 100 V: N/C, 60 W, 30 W, 15 W

Transducers:

• Nominal impedance	16 Ω
• Low frequency driver	8" 100 W
• High frequency driver	1" 5 W
• Overload protection	–
• Enclosure	Plastic
• Grille	Powder-coated steel
• Termination	4-pin Euroblock connector
• Dimensions (H x W x D)	appr. 16 x 10.4 x 9.5" / 406 x 264 x 242 mm
• Weight	appr. 13.2 lbs / 6 kg
• Included accessories	Powder coated C bracket and associated hardware
• Environmental	Conforms to Mil Spec 810 for humidity, salt spray, temperature & UV, IEC 529 IP-X4 splashproof rating

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Architect's and Engineer's Specifications

The loudspeaker shall be a professional full-range loudspeaker system in a ported composite enclosure designed for surface-mounting.

Drivers for the loudspeaker system shall include an 8" / 200 mm low frequency driver and a 1" / 25 mm high frequency driver.

Enclosure for the loudspeaker system shall be constructed of low-resonance molded composite. The enclosure shall be finished with durable, scuff-free black or white paint. The front of the enclosure shall be protected with a detachable wrap-around steel wire-mesh grille with foam backing. The back of the enclosure shall have a recessed ball-mount receptacle in which the connector shall be located.

Mounting bracket shall be supplied with the loudspeaker system. The bracket shall allow aiming in both axes (90° V by 180° H). The bracket shall mount to an included wall plate.

Electronics incorporated into the loudspeaker system shall include a passive crossover at 2.2 kHz enabling the loudspeaker to share the same amplifier channel with subwoofer systems. A rotary switch cap located on the front panel shall allow selection between full-range and high-pass modes. The loudspeaker system shall also include a transformer enabled by a rotary switch cap on the front panel that sets the loudspeaker to operate either in low-impedance mode (16 Ω) or at one of the supported wattages for high-impedance operation. Transformer taps at 70 V shall be 60, 30, 15 and 7.5 W. Transformer taps at 100 V shall be 60, 30, and 15 W.

Connection to the loudspeaker system shall be via a 4-pin Euroblock connector on the input plate. The connector shall have two input terminals and two output "loop-thru" terminals.

Performance criteria met by the loudspeaker system shall include:

- Nominal impedance of 16 Ω
- Sensitivity (1 W / 1 m, half-space) of 89 dB
- Usable frequency range (-10 dB) of 50 Hz - 20 kHz
- Frequency response (-3 dB) of 85 Hz - 20 kHz
- Power Handling (pink noise) of 60 W RMS
- Maximum SPL (1 m) of 107 dB continuous and 113 dB peak

Physical characteristics of the loudspeaker system shall be:

- Height x Width x Depth of 16 x 10.4 x 9.5" / 406 x 264 x 242 mm
- Net weight of not more than 13.2 lbs / 6 kg

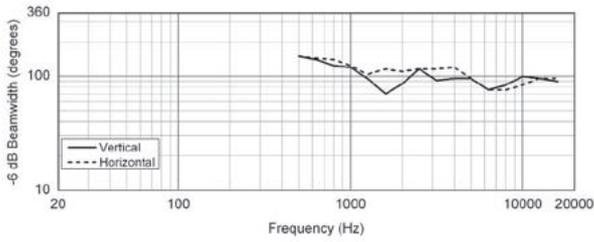
Environmental ratings for the loudspeaker shall include conformance with Mil Spec 810 for humidity, salt spray, temperature and UV, and with the IEC 529 IP-X4 splash-proof rating.

The loudspeaker system shall be the BEHRINGER EUROCOM SL4240.

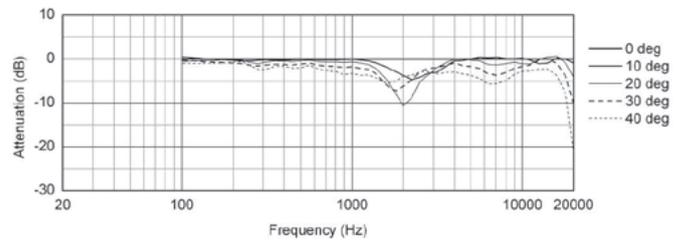
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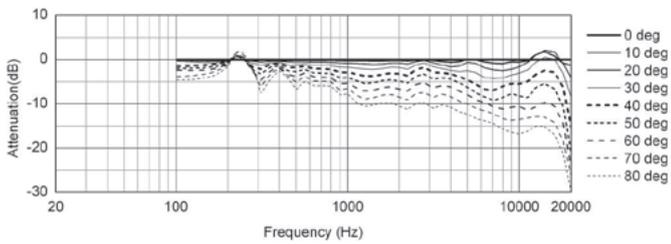
Beamwidth VS. Frequency



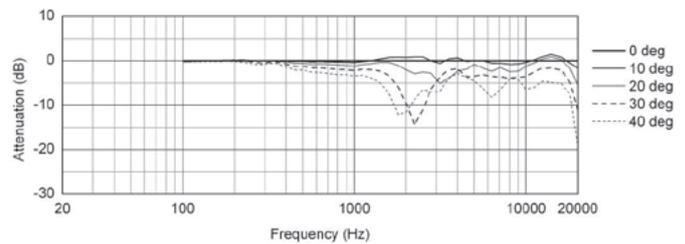
Vertical Up Off-Axis Frequency Response



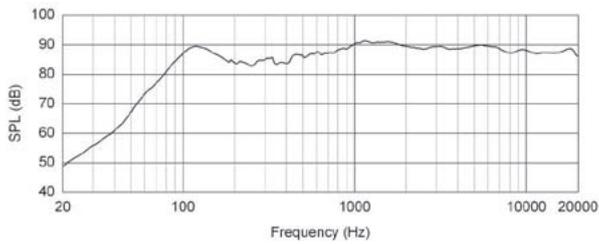
Horizontal Off-Axis Frequency Response



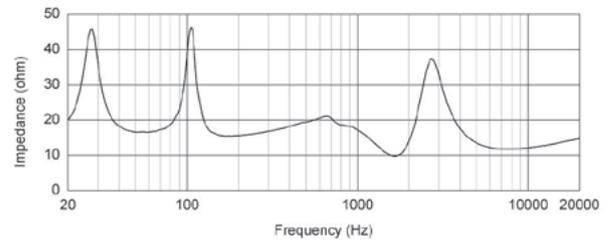
Vertical Down Off-Axis Frequency Response



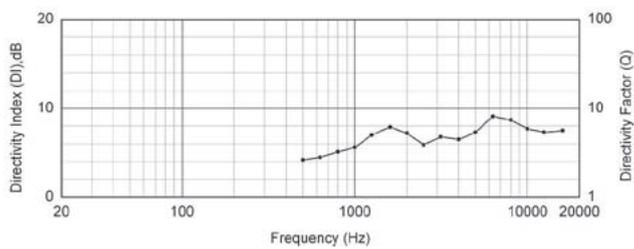
Frequency Response, 1 W @ 1 M



Impedance VS. Frequency



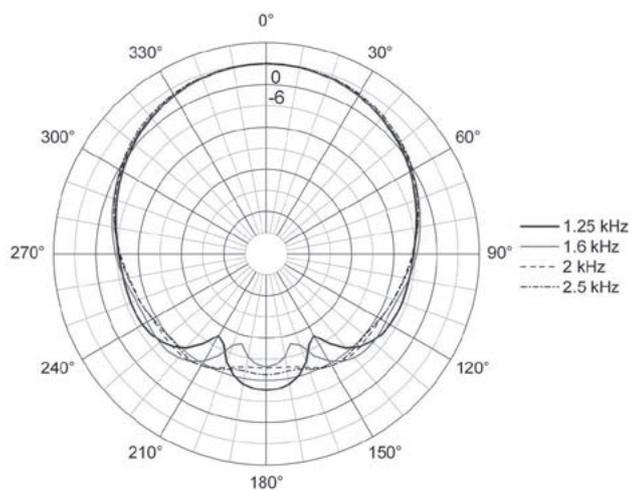
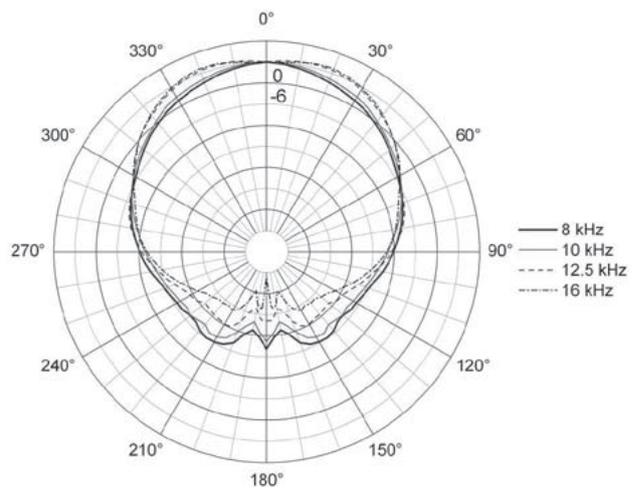
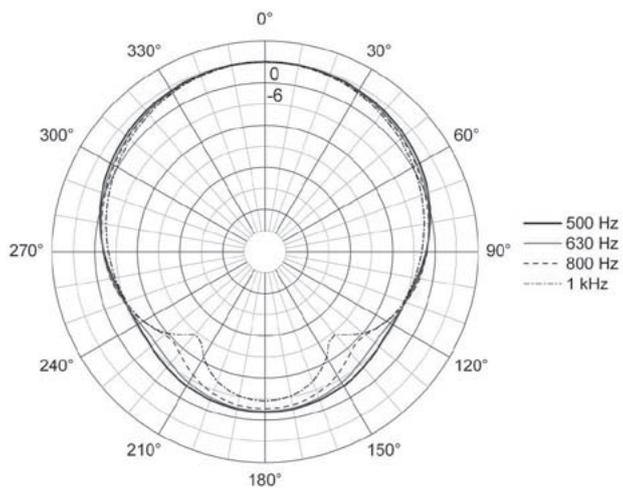
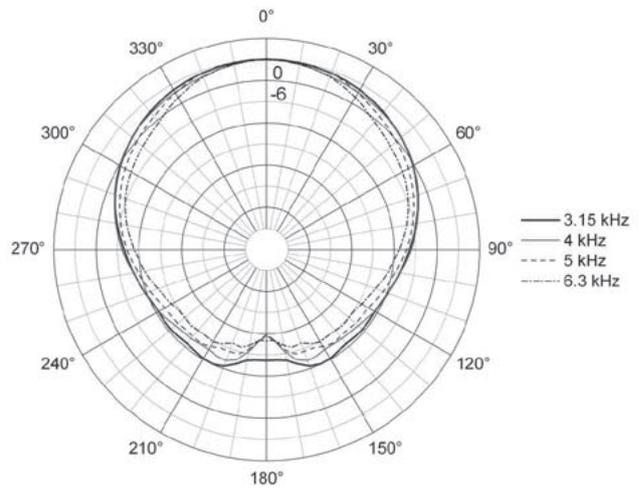
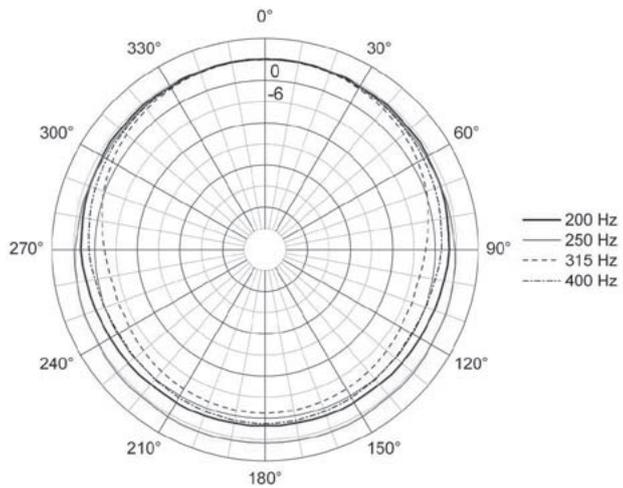
Directivity Index, Q



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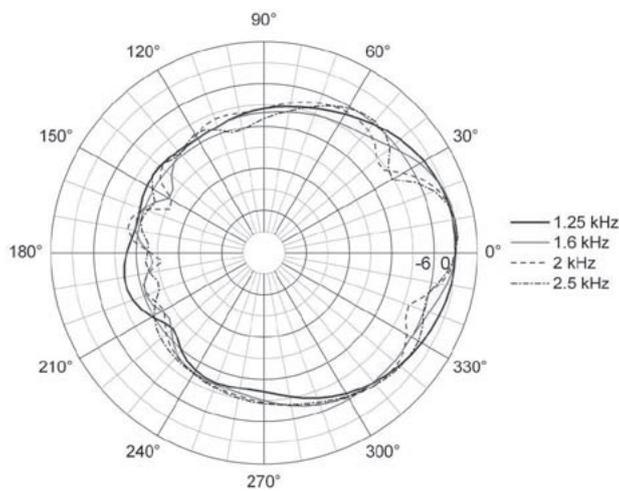
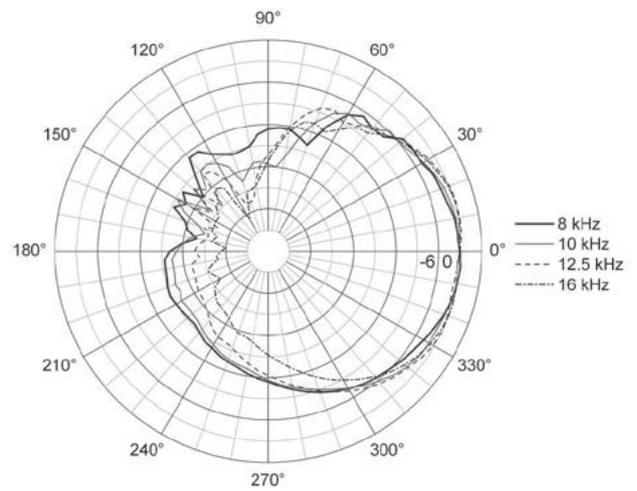
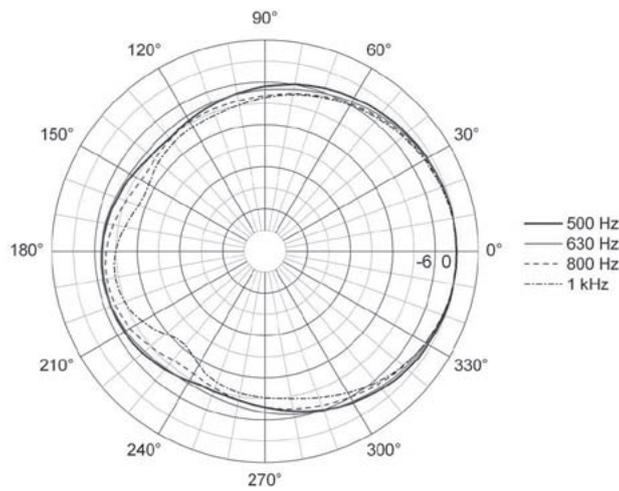
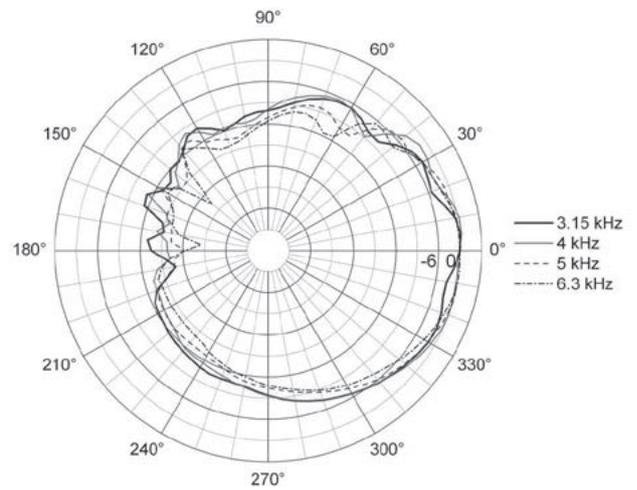
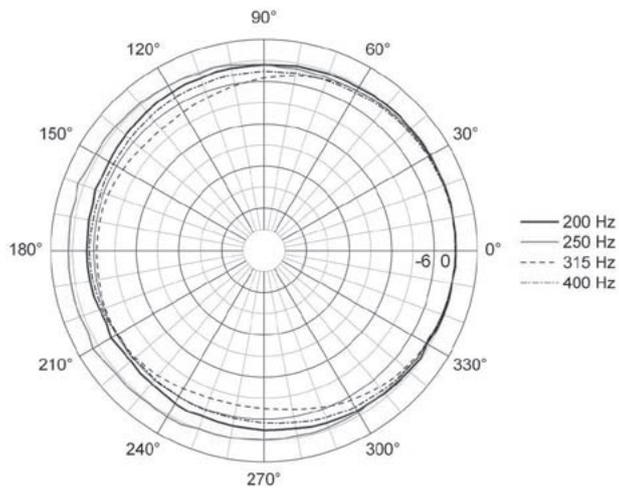
Vertical 1/3 Octave Polars



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Horizontal 1/3 Octave Polars



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Dimensional Drawings

