

LS50 Wireless II

Wireless HiFi Speakers



The multi-award winning LS50 Wireless sets the bar high for high-performance wireless speakers, and in the same spirit of invention and innovation that created the original, the LS50 Wireless II is much more than just a new generation.

The result of three years intensive research and development, the KEF LS50 Wireless II is a fully active wireless stereo speaker system that delivers pristine, KEF signature sound coupled with great usability and high-performance wireless capability. LS50 Wireless II has been built on a whole new acoustic platform, the LS50 Meta passive loudspeakers, while the brand-new wireless platform has been engineered from the ground up. Active electronics, Digital Signal Processing (DSP), wireless streaming platform and the KEF Connect app all combine to set a benchmark of class-leading acoustic and user experience.

FREEDOM

All the music, all the time

The new wireless platform that sits at the digital heart of the LS50 Wireless II ensures that no matter how you like to listen to your music, you will be able to do so with the minimum of fuss and in fantastic sound quality. LS50 Wireless II gives you direct access to your favourite music services, including Spotify (via Spotify Connect), Tidal, Amazon Music, Qobuz and Deezer. You can even tune in to Internet Radio Stations and catch up on the latest podcasts through the KEF Connect app. AirPlay 2 and Google Cast seamlessly connects your compatible Apple or Android device, whilst Bluetooth expands the options even further. There are also wired connections for your TV, turntable, CD player and games console, via the HDMI, analogue, optical and coaxial inputs.

LS50 Wireless II has audiophiles covered with support for streaming music files up to 24bit/384kHz, as well as MAQ, DSD256, and ROON Ready. These features mean that even the experienced hifi enthusiast will marvel at this exceptional loudspeaker's ability; LS50 Wireless II really does offer something to everybody.

LS50 Wireless II is more than a high-fidelity speaker system - it is designed to enhance your everyday life. Seamlessly integrate LS50 Wireless II into your smart home to browse and play music, select sources, or use controls such as play, pause, and adjust the volume via your smart home app or control interface.

USER-CENTRED

Let you be you

Even beyond the flawless musical performance, the LS50 Wireless II is a breeze to set up, intuitive to use and offers over-the-air firmware updates for bringing you new and improved features with the minimum of fuss. You can choose to connect the speakers with the supplied cable (24bit/192kHz resolution) or wirelessly (with 24bit/96kHz resolution) for a completely clutter-free set up. You can even select your favourite source to wake up LS50 Wireless II whenever it comes on, giving you immediate access to your favourite source. Plus, when using AirPlay 2, Google Cast or ROON you can stream to multiple speakers, so you can play music all over your house. The brand-new dedicated KEF Connect app walks you through the set-up and controls the system on a day-to-day basis, including intuitive sound settings, so you can tune LS50 Wireless II to your own personal tastes.

Summary of features

FREEDOM – all the music, all the time

- Play all major music services and supports all major audio formats
- Wireless both from source and between the speakers
- Comprehensive applications and connectivity

USER-CENTRED – let you be you

- Intuitive on-boarding with user-centred features
- Personalised listening experience via KEF Connect App

PERFORMANCE – most accurate, immersive sound

- Metamaterial Absorption Technology for pure, natural sound
- 12th generation Uni-Q with MAT™ for exceptional acoustic accuracy
- Music Integrity Engine for rich, full-bodied sound
- System power: LF 280W class D, HF 100W class A/B, Max. SPL: 108dB

DESIGN – attention to every detail

- Optimised cabinet design for best acoustic performance
- Available in 4 finishes
- With mounting inserts to secure on KEF S2 Floor Stand (available as separate item)



¹ Metamaterial Absorption Technology is a joint development with Acoustic Metamaterials Group.

PERFORMANCE

Most accurate, immersive sound

When it comes to physical technology, LS50 Wireless II takes its lead from KEF's LS50 Meta passive loudspeakers. A truly revolutionary tool in the KEF acoustic armoury, Metamaterial Absorption Technology¹ (MAT™) is a highly complex maze-like structure, where each of the intricate channels efficiently absorbs a specific frequency. When combined, the channels act as an acoustic black hole, absorbing 99% of the unwanted sound that comes from the rear of the tweeter, eliminating the resulting distortion and providing a purer, more natural sound.

KEF's Uni-Q point source configuration delivers a more detailed, accurate and integrated three-dimensional sound image, which is dispersed so evenly throughout the room that the 'sweet spot' is wherever you are in the room. Using simulation and analysis tools, our engineers have developed the 12th generation Uni-Q with MAT driver array, to reduce high-frequency distortion in the mid-frequency driver. The result is reduced coloration, less distortion and a sound that is more transparent and life-like than previously possible. The other frequencies are equally well served, with crystal clear midrange and room-filling, deep and articulate bass.

The performance of LS50 Wireless II is aided by KEF's bespoke Music Integrity Engine, a cutting-edge collection of bespoke Digital Signal Processing algorithms optimised for the new Uni-Q with MAT driver array, enabling it to deliver a perfectly timed performance, for better imaging and a tighter, unsmeared sound.

LS50 Wireless II also has plenty of power on tap. Each tweeter benefits from being driven by a new 100W class A/B amplifier that delivers a smooth, incredibly detailed treble performance. Dedicated 280W class D amplifiers power the mid/bass drivers, for room-filling, controlled sound. The diligent amplifier development has all been undertaken in-house by KEF, in order to completely control the quality of power on offer. The end result of this tireless effort is sensationally dynamic sound, with the music's subtle ebb and flow delivered in all its glory.

DESIGN

Attention to every detail

The LS50 Wireless II will also fit comfortably into your living space when it comes to style. The low-diffraction, curved baffle is precision modelled around the Uni-Q driver array, while eye-catching heat sinks and colour-matched ports are located on the well-equipped rear. LS50 Wireless II is available in four matte finishes, Carbon Black, Mineral White as well as Moss Green and Sand Shell. All the colours are mirrored on both the drive units and the rear-facing port means the LS50 Wireless II looks fantastic from any angle.

On the LS50 Wireless II's underside, each corner has a threaded inset allowing the speaker to lock onto the top of the KEF S2 Floor Stands, which also boast integrated cable management and a mass-loadable column.

For even more impact and bass extension, LS50 Wireless II features two subwoofer outputs, one on each speaker. When paired with KEF's KUBE range or KF92 subwoofers, music and film becomes even more impactful.





Carbon Black

Moss Green

Sand Shell

Mineral White

Specifications

Model	LS50 Wireless II	
Drive units	Uni-Q Driver Array: LF: 130 mm (5.25 in.) aluminium cone HF: 25 mm (1 in.) vented aluminium dome with Metamaterial Absorption Technology	
Frequency range (-6dB) measured at 85dB/1m	40Hz – 47kHz *Depends on EQ settings	
Frequency response (± 3 dB) measured at 85dB/1m	45Hz – 28kHz *Depends on EQ settings	
Amplifier output power (per speaker)	LF: 280W, HF: 100W	
Amplifier class (per speaker)	LF: Class D, HF: Class AB	
Max SPL measured at 1m	108 dB	
Wireless streaming features	AirPlay 2, Google Cast, ROON Ready, UPnP Compatible, Bluetooth 5.0, Plays with Audirvāna	
Streaming services	Spotify via Spotify Connect, Tidal, Amazon Music, Qobuz, Deezer, QQ Music via QPlay, Internet Radio, Podcast *Depends on services availability in different countries	
Source resolution	Network up to 384kHz/24bit Optical up to 96kHz/24bit Coaxial up to 192kHz/24bit HDMI up to 192kHz/24bit *Depends on source resolution	
Interspeaker connection	Wireless: all sources resampled to 96kHz/24bit PCM Wired: all sources resampled to 192kHz/24bit PCM	
Supported format (all inputs)	MP3, M4A, AAC, FLAC, WAV, AIFF, ALAC, WMA, LPCM and Ogg Vorbis	
Supported format (network)	MAQ DSF: DSD64, DSD128, DSD256 DFF: DSD64	
Home automation system	Elan, RTi, Crestron Home, Savant, Control4, URC	
Dimensions (HWD per speaker)	305 x 200 x 311 mm (12.0 x 7.9 x 12.2 in.)	
Weight (per set)	20.1kg (44.31lbs)	
Power input	100 – 240VAC 50/60Hz	
Power consumption	200W (operating power) <2.0W (standby power)	

	Primary speaker	Secondary speaker
Inputs	HDMI eARC TOSLINK Optical Digital Coaxial Analog 3.5mm Auxiliary USB Type A (service) RJ45 Ethernet (network) RJ45 Ethernet (interspeaker)	USB Type A (service) RJ45 Ethernet (interspeaker)
Output	RCA Subwoofer output	RCA Subwoofer output
Wi-Fi network standard	IEEE 802.11a/b/g/n/ac IPv4, IPv6	-
Wi-Fi network frequency band	Dual-band 2.4 GHz / 5 GHz	-