LS50 Wireless
Greatness, amplified.
At KEF, we believe that music should not just reach your ears, but your heart. Our passion for music drives us in search of quality sound, inspiring constant innovation. We develop tools that deliver music faithfully and honestly, in all its glory. We believe that everyone deserves to experience music as it was meant to be heard.
The LS50 Wireless Audiophile Music System
The Greatness Continues

The legendary LS3/5A was the original mini monitor that transformed the audio experience back in 1975. It was designed at the BBC, utilising core components like the KEF B110 bass/midrange unit and KEF T27 treble unit, and demonstrated a total understanding of the art and science of speaker design.

To celebrate KEF’s 50th anniversary, a new classic was born: the LS50. Taking its inspiration from the acclaimed performance of the LS3/5A, the LS50 passive speakers brought the professional studio monitor concept into the home and was a pioneer in enabling everyone everywhere to experience great sound. This multiple award-winning speaker gained consistent renown and recognition for its accurate yet rich, multi-dimensional sound that is out of all proportion to its size.

“...a cracking little speaker of which KEF’s design engineers must be most proud. Sweetly voiced yet highly revealing of source quality; it surprises and delights in equal measure. And boy does it sound big, defying its compact dimensions.”

- Hi-Fi News & Record Review

“The KEF LS50s have set a ridiculously high benchmark and it is going to take a superhuman effort to top them.”

- What Hi-Fi? Sound and Vision

“The LS50 is nothing short of a masterpiece of a minimonitor, priced so that anyone serious about audio can buy a pair — and probably should, if only to know how great a small speaker can be. The LS50 is one of their best speakers yet, and one of their best values: it’s proof that, as it ages, this company seems to get better and better.”

- SoundStageHiFi

Since that landmark launch, KEF has stepped up to the challenge of creating tools for the digital age. Following the same principle of quality sound, the LS50 Wireless is a complete, fully active music system that brings Hi-Fi sound to the new generation of digital music lifestyles.
A Complete System for High Resolution Music

The beauty of the LS50 Wireless is the combination of simplicity and sophistication. It is a complete system that takes musical enjoyment to the next level where sound and ease-of-use match the modern music lifestyle.

With its LS50 pedigree, all the winning acoustic features and benefits of the passive loudspeaker are retained in the LS50 Wireless system. The FEA-designed cabinet, constrained layer damping panels, driver, curved baffle as well as the elliptical flexible sound part are all part of the LS50 Wireless to prevent cabinet vibrations, radiating sound, resonances and colouration.

The additional audiophile grade amplification and sound processing, as well as comprehensive connectivity, makes the LS50 Wireless a total music system.

The LS50 Wireless delivers audiophile-grade sound with an array of sophisticated components built in:

- Dedicated power ampls per driver channel
- Dedicated DSP crossover per channel
- Dedicated DAC per channel
- Streaming pre-amplifier
Uni-Q: Every Spot Is The Sweet Spot

Our patented Uni-Q technology places the tweeter in the acoustic centre of the bass / midrange cone so that both act as a single point source that disperses the sound more evenly throughout the room than any conventional speaker. This means that you get the full enjoyment from your music no matter where you sit.

1. Tangerine waveguide
   Increases the dispersion of the tweeter. Energy is distributed more evenly across a wider angle, reducing the traditional “sweet spot effect.”

2. Optimum dome shape and stiffened dome technology
   Creates a structure that is stiff, it operates as a pure piston over its entire working range. The dome resonance for the tweeter is at 40kHz which is beyond audible range.

3. Large neodymium magnet
4. Vented tweeter

5. Z-flex cone surround
   Smooth physical transition between cone and cabinet front panel.

6. Stiffened magnesium / aluminium alloy cone
   Light, stiff and physically smooth.

7. Die-cast aluminium chassis
8. Break-up control
   Damping of first HF break-up peak.

9. Large ferrite magnet
10. LF/MF driver
Crossover Timing Correction: Every Note at the Same Time

Passive crossovers cause the signal to be time-smeared. Our advanced time-correcting DSP crossover solves this problem and ensures “close-to-perfect” time alignment between low and high frequencies so that every note hits your ears at the same time. This was a theoretical ideal in the past, and perfectly accurate sound could only be experienced within a small “sweet spot”. With LS50 Wireless’ advanced time correcting DSP crossover and the unique sound dispersion abilities of our Uni-Q technology, time-corrected accurate sound can be achieved in different types of rooms. This is a feature that cannot be reproduced by any other active speaker.
**Comprehensive Connectivity**

There is a full range of options to connect your device to the LS50 Wireless: Bluetooth 4.0 with aptX® codec (max 8 devices), Asynchronous USB Type B, TOSLINK Optical and RCA Analog Line Level Input.

**Placement Flexibility**

Adjust how the LS50 Wireless sounds using a selectable EQ tuned to compensate for different mounting scenarios, creating more options for placement and positioning. Regardless of placement, Uni Q technology disperses sound evenly for total listening enjoyment.

**Excellent Compatibility**

With all these options to connect to the LS50 Wireless, you can enjoy your music, no matter how you store it.
Specifications

Drive units
Uni-Q driver array:
HF: 25mm (1 in.) vented aluminium dome
LF/MF: 130mm (5.25 in.) magnesium/aluminium alloy

Frequency Range (-6dB)
Measured at 85dB/1m
40Hz – 47kHz (More bass extension)
43Hz – 47kHz (Standard)
46Hz – 47kHz (Less bass extension)
Depending on speaker settings

Frequency Response (±3dB)
Measured at 85dB/1m
45Hz – 28kHz (More bass extension)
50Hz – 28kHz (Standard)
61Hz – 28kHz (Less bass extension)
Depending on speaker settings

Max Output (SPL) 106dB
Amplifier Output Power LF: 200W
HF: 30W
Resolution Up to 24 bit
Sampling Rate Up to 192kHz (USB Type B)
Up to 96kHz (TOSLINK Optical)
Network Wi-Fi 802.11 a/b/g/n, Dual-band 2.4GHz/5GHz
10/100 Mbps RJ45 Ethernet
Audio Inputs Bluetooth 4.0 with aP2X® codec (Max. 8 devices)
Asynchronous USB Type B
TOSLINK Optical
RCA Analog Line Level Input
Audio Output RCA analog for subwoofer connection
Dimension (H x W x D) 300 x 200 x 308mm (11.8 x 7.9 x 12.2 in.)
Weight Left Speaker: 10.3kg (22.6lbs)
Right Speaker: 10.4kg (22.9lbs)
Power Input 100 – 240VAC 50/60Hz
The Search For True Sound

KEF, one of the originators of British Hi-Fi sound, was founded in 1961 by Raymond Cooke OBE (1925 - 1995). It was initially headquartered in a Nissen Hut on the premises of Kent Engineering & Foundry (from where the name KEF is derived). Cooke, an ex-BBC Electrical Engineer, was keen to experiment with new materials and technologies in order to create products with superior acoustic quality that could reproduce recordings as natural as the original performance. Made by music lovers from the very beginning, the pioneering inventiveness of KEF loudspeakers was uncanny, and audiophiles around the world have revered KEF for its innovative, high-performance loudspeakers.

Now in its 6th decade, KEF develops world-beating products with its R&D and Engineering still based in Maidstone, Kent. Scientific innovation at KEF continues to underwrite its reputation as the audiophile’s ultimate loudspeaker manufacturer.

“This is for Loudspeakers?”
- HM The Queen

“High-Fidelity Loudspeakers, Ma’am.”
-Raymond Cooke, on receiving his OBE