



soundmatters

foxL^{v2} An Overview

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Introduction:

Soundmatters' new 2nd generation foxLv2 was developed by soundmatters' founder, world-renowned audio designer Dr. Godehard Guenther, to provide **an up-close listening, real hi-fi experience from a very tiny and portable loudspeaker system** for musicphones/pads/laptops/desktop PCs and more.

Two models are available: the standard **wired foxL (\$199 msrp, \$169 street)**, and sibling, the **foxL Bluetooth (\$249 msrp, \$199 street)**, which adds **streaming music capability**, and with it's built-in noise/echo canceling microphone doubles as a **hands-free speaker phone** for wireless conferencing. Both may be purchased from the webstore at www.soundmatters.com, select outlets including high-end catalogues (i.e. Hammacher-Schlemmer), online stores (i.e. Amazon), and specialty AV retailers.

What foxL V2 is (and isn't!):

Expect a surprising amount of sound and sound quality from foxLv2 but remember it's designed as a **personal speaker system** providing great fidelity in your home office or hotel room and excellent clarity for a boardroom presentation or conference call (Bluetooth version). It'll fill in a decent sized room for background listening but... **a beach party boombox it ain't.**

Key Features (both models):

- Uniquely combines high-resolution fidelity and pocket-sized portability
- Connect to any music source via standard 3.5mm stereo audio cable (included)
- Lithium-ion BassBattery™ re-chargable via USB (trickle charge) or included universal wall charger (*includes AC prong adapters for US/Japan, Germany/China, UK/HK, Australia/NZ*)
- Up to 8 hours battery life (worst case: Bluetooth on, full volume = 4+ hours)
- Output wattage doubles when powered via AC wall charger (included)
- Subwoofer Output
- 1 year Parts + Labor Warranty

Added Features (foxL v2 Bluetooth)

"the ultimate audio business tool"

- Streams music from Bluetooth A2DP compatible music phones, pads, computers.
3rd party A2DP dongles are available for iPods, portable gaming, etc.
- Hands-free wireless portable conferencing device via built-in noise/echo canceling microphone. Answer, Ignore, Terminate phone calls from the speaker.

V2 improvements over the original foxL

- **Sounds Even Better** – Nuanced improvements in the foxL V2's patented "Twoofers" provide smoother more extended bass and an even more "open and airy listening experience.
- **Plays Louder** – While still designed for personal listening, provides up to 3dB more output.
- **Improved Bluetooth Sound** – wider frequency response, lower noise and distortion
- **Improved Bluetooth Operation** – 3x its previous range, automatically pairs/searches for Bluetooth device
- **Improved Hands-free Operation** – enhanced noise-canceling, calls can now be answered, terminated, rejected from the speaker.
- **Longer Battery Life** – 50% greater, now up to 8 hours
- **New Lower U.S. Price** – the V2 Bluetooth with Hands-free Microphone "street price" is \$50 less than its predecessor, \$199. Also available is a non-Bluetooth foxL V2 at \$169, a \$30 "street price" savings over the original foxL.

foxL V2 Bluetooth Operation

- Initial Pairing:

1 - If an option (i.e. on pc), pair foxL as a headphone or speaker, not headset which typically won't allow music streaming.

2 - Turn on foxL, it will automatically search for a connection. Enter code 0000 (if required) into your Bluetooth companion device to initially pair.

Note: you may hear a slight high-frequency tone during the initial pair/search sequence.

- Re-connect after initial pairing ... turn on foxLv2 and it auto-searches for last 5 paired devices.

- Bluetooth Noise ... residual Bluetooth background noise that might be audible if listening at very close range is typically masked during music playback (as with Dolby® noise reduction cassette decks, for those old enough to remember)

- Speaker Call Controls and Auto call switching ... if a call comes in while streaming music from a music phone, music will fade out and the call can be answered or rejected from the foxLv2 front button – Answer/Terminate: push <1.5 sec

Reject: push >1.5 sec

Once the call is terminated, music streaming resumes.

- Turn off Bluetooth... Push and hold front button >5 seconds 'til LED turns amber and shuts off.

- Adjust Music Volume... AVCP Bluetooth music devices (most new A2DP equipped Bluetooth phones) allow you to control music volume from the speaker.

Notes for use with iPhone:

Note 1: Apple's iPhone 3G (with 3.0+ software upgrade), iPhone 3Gs and iPhone4 are great for streaming stereo Bluetooth to foxLv2. The original iPhone will work hands-free Bluetooth with foxLv2 for conferencing and wired for music but does not have wireless music capabilities.

Note 2: iPhone models with iOS4 or later upgrades incorporate Bluetooth's AVRCP protocol meaning volume of a Bluetooth speaker or earphone, including foxL can now be controlled from the phone. This was not available on with earlier software.

Note 3: The original iPhone has a recessed headphone jack requiring a trimmed down connector jacket (or a mini-jacket 3.5mm cable – avail. from Apple, Monster etc.) to access it.

Other foxL Usage Tidbits:

- foxL generates a huge amount of low frequency energy for its size and may “walk” a bit, when played loud. Use the fold out stand for stability and/or the included anti-skid acoustic “yoga” mat.

- foxL's output power doubles when wall powered, playing up to 3dB louder

- foxL's built-in speaker protection will shut down one, or both channels if overdriven (more likely to happen when battery powered...turn the unit off/on to reset.

- USB charging via a computer is typically quite slow...limited by its USB port specs.

- Not surprising foxL's bass response will benefit from boundary effect and surfaces where low frequency energy transfer is possible.

Specifications:

Battery Life: up to 8 hours
Power: 4W x 2 <0.1%THD, 5V in
 2W x 2 <0.1%THD, 3.6V in
Output Level: 97dB @ 0.5m, 5V
 95dB @ 0.5m, 3.6V
Freq. Response: 80Hz–20kHz (DIN 4500)
Connections: power in, audio in, sub out
AC Adapter: 5V 2A Max 10W
Dimensions: 143 x 55 x 35 mm (5.6 x 2.2 x 1.4 inch)
Weight: 269 gram (9.5 oz)

Accessories in the Box:

- 5Vdc Wall Universal Charger (*includes AC adapters for US/Japan, Germany/China, UK/HK, AU/NZ*)
- 3.5 mm stereo audio cable
- Mini-USB>USB Charging Cable
- Anti-slip Acoustic “yoga” Mat
- Travel Pouch
- Wrist Strap
- English/French User Manual

foxL’s Unique Technologies:

- **Patented Tweeters *that also woof*.** Dual 1-inch **Linear Magnetic Drive™** “**Twoofers**” with field-focused, back-to-back dual Extreme-Energy neodymium magnets provide remarkable nearfield response from below 100Hz to 20kHz.
- **Patented BassBattery™**...a unique “flatmagic” bass radiator whose mass is actually the built-in re-chargable lithium-ion battery (sandwiched in a rubber surround). The BassBattery™ augments the Twoofer for extended low frequency response, uncanny tactile bass energy, and up to 8 hours of portable power for foxL’s built-in amplifiers.
- **DomeForward™** driver alignment and high-transparency acoustic grill contribute to foxL’s “open and airy” sound.

Soundmatters, the Company:

Founded in 1998, soundmatters, inc is primarily an R+D company whose core competencies in magnetics, acoustics, and digital power supplies integration provide a unique ability to deliver much more sound, from much less space than our competitors. Soundmatters offers its own branded products and provides patented audio solutions to select partners. Most recently we began licensing some of our technologies to Aliph/Jawbone, www.jawbone.com.

More information is available at www.soundmatters.com

Dr. Godehard Guenther, the Designer:

Dr. Godehard Guenther, soundmatters founder and CEO, also conceptualized and led the design team on the foxL and foxLv2. Dr. Guenther, (who has advanced degrees from Germany's University of Heidelberg in nuclear physics, physical chemistry, and astronomy) was recruited to join NASA's Redstone Arsenal in Huntsville, Alabama by Werner Von Braun, where he subsequently founded a new audio company a/d/s/.

Considered a wizard by many other audio designers, he led his team of a/d/s/ engineers to develop the following "world's first" product innovations...

- in-wall speaker
- in-wall subwoofer
- component loudspeaker for car hi-fi
- switching power supply for car hi-fi
- multi-channel car amplifier
- hi-fi television monitor
- complete digital time-delay system for surround sound

Dr. Guenther was the first to incorporate ultra-powerful rare earth magnets (i.e. strontium & neodymium) in loudspeakers, a result of his experience at NASA. He virtually created the category of miniature hi-fi speakers with the introduction of the a/d/s/ L200 (which was displayed at the Museum of Modern Art), developed a limited edition sound system for Porsche and designed a custom speaker monitor system used by Telarc Records (which could handle the live cannons) on their legendary recording of the Overture of 1812.

Awards:

foxLmb: *TIME* magazine Top 10 Gadget of 2008



2009 PLUS X European Award for Innovation



Robb Report Recommended



foxL: *Sound+Vision* 2008 Editors' Choice Award
(the other 5 speaker systems honored all sold for over 10x foxL's price)



Some of the U.S. Editorial Comments about the foxL series:

“...astonished by the sound quality that comes from such a small package”

- [CNN Tech](#)

“We could not believe the sound that came out of these tiny speakers.”

- [The Rolling Stone](#)

“Editor Rated 4 - STARS, EXCELLENT” (original foxL and foxLv2 Bluetooth)

- [CNET.COM](#)

“David vs. Goliath...no speaker this small ever sounded so good”

“The frequency response of the foxL <measured up close> looks like a well-engineered, \$2000-per-pair bookshelf speaker...”

“...those that value good sound will consider it a bargain – and, perhaps, something of a miracle.”

- [Sound and Vision Magazine](#)

“The foxL is simply the best thing to happen to business travel since Wi-Fi.”

- [JazzTimes](#)

“...more bass than I've ever heard from a device this size. For what it is, it sounds amazingly solid. Given the choice between this and having something clamped on my head or stuck in my ears for long periods, I'd choose this...”

- [Home Theater Magazine](#)

“...its sound quality always impresses and sometimes even astounds.”

- [Robb Report](#)

“sound quality that defies its small size”

- [Minneapolis Star-Tribune](#)

“...considering it's size, it produces profoundly good sound”

- [Esquire](#)

“Its midrange and upper frequency response is especially natural. Even the bass response is decent.”

- [Vintage Guitar](#)

Unsolicited Testimonials from Professional Recording Engineers on foxL:

"Love the FoxL. Am recommending it to everyone!"

- John Harris • Recording Engineer/Music Mix Mobile

Two Grammy awards, four Emmy awards and over 30 years experience mixing music for recording legends such as Eric Clapton, Lou Reed, Paul Simon, George Harrison, Madonna, U2, Gwen Stefani, James Taylor, Dave Mathews Band, David Bowie, Garth Brooks, Ray Charles, Elton John, & Paul McCartney.

"I am absolutely speechless. This little magic "Black Box" has astounding space, imaging and clarity. It can even fill a room and exhibit balance and frequency response. I carry mine every where. FOXL and iPhone will travel. miniature size, gargantuan sound. audio and video on the go... THANK YOU.

- Rob Macomber • Chief Engineer

*Music Studios @ Jazz at Lincoln Center
New York, New York*

foxL Testimonials from Other High-end Brand Speaker Execs:

"Remarkably full-range performance, and musical for the size. I love this thing!"

- Michael Kelly, President, Aerial Acoustics www.aerialacoustics.com

"The first really portable speaker system that actually sounds good!"

- Peter Tribeman, President, Atlantic Technology www.atlantictechnology.com

"I take it with me everywhere!!!!!! Incredible engineering and extremely well-built. Anyone interested in quality of sound must have this little wonder."

- Gayle Sanders, Co-Founder, former President MartinLogan Electrostatics
www.martinlogan.com

"Outstanding performance aside, the foxL has so many uses and is so convenient its like an audio Swiss army knife.

Everybody who listens to music should have one of these."

- Chris Byrne, Co-Founder, Owner, NHT www.nhthifi.com

"What a wonderful little product--especially for those of us who travel. Simple, attractive design, and better sound than anything this compact should produce. Great job."

- John Hunter, President, SUMIKO www.sumikoaudio.net
(Exclusive North American distributor: Sonus Faber, Vienna Acoustics, REL)