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Portable Loudspeakers

WHAT YOU NEED TO KNOW TO LEVERAGE THIS
INNOVATIVE TECHNOLOGY



Executive summary

Technology leaders today are increasingly facing the need to incorporate portable audio solutions in different types of environments.

In this ebook, you will discover:

How portable loudspeakers are driving innovation across businesses, places of worship, and educational settings.

The key features and benefits of portable loudspeakers — and what to look for when selecting one.

The use cases and specific needs portable loudspeakers solve.

Evolution of Portable Loudspeakers

The demand for **professional-level portable audio equipment** continues to rise. From the workplace to classrooms to places of worship, there's a need for flexible, high-quality audio where people come together to learn, celebrate, and work. And more than ever before, these activities are happening in a wide range of different spaces. Portable loudspeakers can bring clear, professional sound quickly and easily to any of these environments.

Loudspeakers have a storied history as part of the development of some of our cultural-change level technologies. Alexander Graham Bell **patented a loudspeaker in 1871** as part of the telephone. This led to the evolution and development of loudspeakers as part of music players and film systems introduced by major film companies in the 1930s. The technology continued to develop with a focus on psychoacoustics: developing loudspeakers that didn't just measure how sounds were produced but also how good they sounded to listeners. Now, this same technology is being used to create unforgettable sound experiences in an array of spaces.

Today, portable loudspeakers blend premium performance with practical portability for on-the-go sound setups that can be optimized for any environment. Let's take a closer look at what portable loudspeakers are, how they work in different environments, and how technology leaders can use them to deliver unparalleled sound.





Key Features and Benefits of Portable Loudspeakers

Not long ago, delivering sound required access to a fully wired built-in sound solution or the ability to transport and set up large volumes of equipment.

Today's portable loudspeakers offer all-in-one solutions that provide high-quality sound with streamlined logistics and setup. Additionally, they include tools that let users easily manage sound quality and settings from a smartphone.

So, what exactly is a portable loudspeaker? A loudspeaker plays sounds — whether live or recorded materials like songs or lectures — and projects it effectively into a space. Loudspeakers are designed with professional settings in mind.

And portable solutions are compact and designed to be moved from space to space and set up on-demand. They also have access to additional tools to optimize sound quality for specific areas.

When considering portable loudspeakers, the typical benefits include:

Practical portability: Get in, set up, and start events quickly and efficiently — whether

you're hosting a breakout at a conference or delivering an expert talk at a university.

Easy setup: Quickly move from a vehicle or an onsite location to an event venue with an all-in-one device or small modular system intended for easy packing, carrying, and setting up.

Full-range sound: Deliver premium full-range sound with consistent tonal balance, creating an optimum sound.

180-degree horizontal coverage: Products such as the Bose Professional **L1 Pro family** offer 180-degree horizontal coverage for excellent sound clarity. They come in a variety of coverage patterns to deliver sound for different environments.

More bass, less bulk: All-in-one portable loudspeaker solutions feature integrated subwoofers to deliver impressive bass with a smaller footprint or optional additional subwoofers for a customized stand.

Equalizer automation: Select between optimized system EQ presets for a variety of sound experiences.

App-based management: Take wireless control to adjust settings instantly, roam the room, and fine-tune with the L1 Mix app on your smartphone. You can also access the ToneMatch library of custom EQ presets for the easiest soundchecks.

Flexible connections: Portable loudspeakers often feature *Bluetooth*® integration and connectivity options such as auxiliary inputs and phantom-powered inputs for compatibility with additional tools and accessories.

Affordable professional sound: Portable loudspeakers allow companies access to premium sound that can cover a variety of use cases and environments instead of having to fund permanent sound installations. They can also be a flexible augmentation to existing sound solutions for dynamic coverage and customized configurations.





Types of Portable Loudspeakers

With wired sound systems, you may be familiar with solutions such as arrays, point-of-sound reinforcements, column arrays, and foreground and background speakers. These ensure coverage and precision of sound delivery within a specific space. Portable loudspeakers instead use proprietary technologies to provide best-in-class sound coverage and portability on the go, along with tools to optimize sound performance for changing venues.

There are several types of portable loudspeakers to consider:

Ultra-portable all-in-ones

Ultra-portable all-in-one loudspeakers integrate every feature required into a single device that can easily be carried with a handle. **The Bose S1 Pro portable *Bluetooth*® speaker system**, for example, is the ultimate all-in-one loudspeaker, floor monitor, and primary sound system. Multiple positions, supported by Auto EQ, ensure that users always sound their best — and with a three-channel mixer, reverb, *Bluetooth*® streaming, and ToneMatch processing onboard, the S1 Pro is a reliable go-anywhere loudspeaker.

This may be right for you if you need:

- A lightweight, ultra-portable design that can be carried with a handle.

- A rechargeable lithium-ion battery for greater independence.

- High-output sound from a compact device.

Portable line array systems

Portable line array systems take on-the-go sound to the next level. With 180-degree coverage and built-in bass, these systems offer sophisticated sound in a small package. Portable line array systems are available in configurations for a variety of spaces. **The Bose L1 Pro family** includes the L1 Pro8, which offers 180-degree coverage for cafes and small conference rooms; the L1 Pro16 for mid-size spaces; and the L1 Pro32, which brings the capabilities of portable loudspeakers to mid-to-large venues.



A portable line array system may be right for you if you need:

- Premium sound with solutions for a range of venue sizes.

- Simplified management with a smartphone app that allows users to adjust settings instantly, conduct sound tests from anywhere in a venue, and access preset EQ settings for streamlined optimization.

- Optional powered bass modules that add more power to the systems.

Standalone flexible arrays

With standalone flexible arrays, you can bring sound on the go with ultimate flexibility to determine coverage patterns. **The Bose F1 Model 812** is a 1000-watt, full-range loudspeaker featuring Bose Flexible Array technology that allows users to set coverage patterns. At the heart of the F1 is a 12-inch woofer nested behind an array of eight high-output drivers. This portable loudspeaker lets users design the coverage patterns that are right for them — including C, J, Reverse-J, and straight patterns — for superior sound in any environment.

A standalone flexible array may be right for you if you need:

- Full control of the coverage patterns that optimize the sound to fit the room and deliver great sound, whether you're in a flat space or a room with tiered seating.

- An optional subwoofer.





How Portable Loudspeakers Transform Different Environments

Portable loudspeakers have become a cornerstone of sound delivery solutions in a variety of environments. Here's a closer look at the common use cases and how this innovative technology is allowing for on-demand sound in the workplace, places of worship, and schools.

Corporate Workplace

There's never been a greater demand for flexible sound solutions that can accommodate a range of different meeting configurations. With hybrid workplace trends on the rise, today's office technology professionals need portable systems that deliver premium sound, are quick to set up, and can be managed with ease. As many organizations continue to shift their office plans, portable loudspeakers are helping bridge the gap and provide sound on demand.

Portable loudspeakers are being used in the corporate workplace to:

- Provide professional sound for conferences, panels, and events.

- Deliver sound in outdoor events and non-traditional settings.

Churches

With a shared sense of purpose and meaning, worship services aim to capture the hearts and minds of listeners. High-quality portable loudspeakers with easy controls put the focus where it should be — on the message and on the people — while technology effortlessly facilitates that experience. While some worship environments have fully wired sound solutions, many are increasingly relying on portable loudspeakers for the flexibility that today's dynamic faith-based environments demand.

Portable loudspeakers are being used in places of worship to:

- Provide easy sound solutions for outdoor and temporary services.

- Enhance sound at events, from worship bands to baptisms.

- Offer the ability to deliver premium sound in secondary areas such as children's rooms and multipurpose spaces.

- Keep costs low while offering high quality sound that is easy to manage.



Education

In the classroom and at home, universities and colleges are reinventing the educational process. Today's educational AV experts need flexible sound solutions that can adapt to fast-changing school needs. Whether it's making sure every student has a strong experience in the classroom or providing the best experience for guests during a lecture, a space can be turned into a learning zone with the right portable loudspeaker technology.

Portable loudspeakers are helping schools:

- Deliver top-quality sound in every classroom for onsite, online, or hybrid learning scenarios.

- Take the classroom to outdoor settings for hands-on learning opportunities.

- Offer professional-quality sound at board meetings, faculty meetings, conferences, and special talks.

- Support student presentations and events with professional-level sound.



Conclusion

As the demand for portable sound systems continues to rise, organizations, schools, and places of worship will require innovative products to meet their needs. Today, there is a **wide array of portable sound solutions** available. Don't wait. Explore the portable loudspeakers on the market to determine which ones will best fit your needs.



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