

Cambridge Sound Management, LLC, located in Cambridge, Massachusetts, is the developer of *Qt Quiet technology*™.

We have a distinguished heritage in the field of acoustics. In 1999, acousticians and engineers from Acentech Inc. licensed masking patents and intellectual property to Cambridge Sound Management, LLC. Acentech is the direct descendant of the highly regarded Bolt, Beranek and Newman's acoustics-consulting group that was founded in 1948. This group of distinguished acousticians received the American Institute of Architects Honor Award as recognition for having "...created an awareness of acoustical considerations in building design... and integrating solutions based on scientific principles with architectural and artistic concepts."

Today, a select group of worldwide partners that includes a network of manufacturers, resellers, systems integrators and installers provide configuration and installation expertise to thousands of customers of *Qt Quiet technology*™ systems. These systems are deployed in millions of square feet of home and commercial space ranging in size from modest home offices to over one million square foot open office environments.

History

Our accomplished acousticians have been involved with all three generations of sound masking technology.

First generation commercial sound masking systems introduced to the market by BBN (circa 1965) used plenum-based speakers that required significant systems design and complex post-installation measurements and adjustments by acoustical experts. System speakers were mounted to the deck, above the ceiling tiles, producing a sound field between the ceiling tiles and the deck that ultimately transmitted to the office space below. Heating ducts, piping and walls that extended to the deck all required consideration during design, installation and post-installation tuning. In addition, the sound would overflow to spaces where sound masking was not desired.

Second generation systems (circa 1975) delivered by BBN and Acentech placed paint can-sized speakers with integrated electronics in the plenum. Early designs of this equipment required installers to go up into the plenum to tune each speaker. Subsequent designs eliminated this inconvenience with programmable head-end equipment, but did not eliminate the complexities of design, the overflow problem or the need for costly post-installation adjustments.

These first and second generation systems are still available.

State of the Art

Qt Quiet technology™ systems are the most recent generation in the evolution of sound masking technology. Instead of mounting speakers in areas where there are obstacles that add acoustical complications (e.g., heating ducts, piping, and HVAC openings in the ceiling), *Qt Quiet technology*™ sound masking systems use miniaturized emitters installed directly in the targeted space. Our approach greatly simplifies the complexity of design, installation and post-installation tuning and fully eliminates the overflow of sound to unintended spaces. This direct-field system is low-voltage, using significantly less power than in-plenum systems.

Qt Quiet technology™ is a superior distributed audio system for sound masking, paging and music distribution in a turnkey package.