

MODERNIZED MUSIC AND PA SYSTEM

Cardinal Glass

Cardinal Glass Reflects on Safety and Productivity with Q-SYS for Audio and Control

📍 Tomah, Wisconsin

[Cardinal Glass](#), one of the world's largest glass manufacturers, recognizes the importance of clear and efficient communication to ensure safety, productivity, and quality across their thirty-one plants nationwide. With a significant expansion at their plant in Tomah, WI, they are taking proactive measures to enhance the PA system. This system serves multiple purposes, including functioning as a commercial doorbell, emergency alerts, notifications, and a warehouse speaker system for background music (BGM). To achieve this improvement, they equipped their 1M sq ft building with [Q-SYS](#) for audio and control. This investment in Q-SYS also extends to the company's extensive training facility, illustrating Cardinal Glass's commitment to effective communication across their entire operation.



“**Q-SYS is our go-to product for background music, paging, sound masking, and advanced controls. Its ease of customization and integration with other systems, such as access control and video conferencing platforms, make Q-SYS a preferred choice.**”

Bryan Werner,

Director of Business Development, AMS

Challenges

Safety First

According to Bryan Werner, Director of Business Development and Partner at [AMS](#), "Life safety is of utmost importance for Cardinal Glass. Doorbell chimes, internal paging, and emergency alerts, such as those for tornadoes or active shooter situations, are set up through the Central Alerting System (CAS). These events are triggered through [Q-SYS Touch Screen Controllers](#), broadcasting prerecorded messages to 27 zones throughout the building. Additionally, Cardinal Glass wanted to improve the work experience with distributed background music (BGM). They are a company that understands the value of the technology, which is why our team at AMS decided to go with Q-SYS integration."



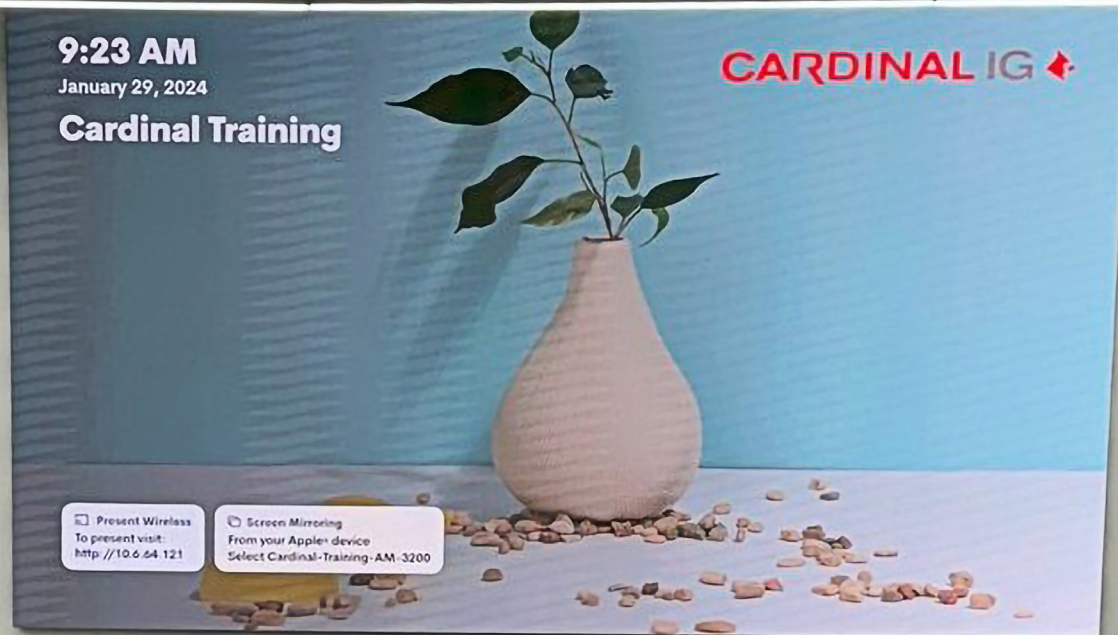
Solutions

A Harmony of Safety & Sounds

AMS implemented a comprehensive Q-SYS solution to address Cardinal Glass's safety and audio needs. The solution included redundant [QSYS Core 110fs](#) for centralized control, 22 Q-SYS Touch Screens with customized [UCIs](#) for simplified user control, and 16 IDF (Intermediate Distribution Frame) locations, with [Q-SYS CX-Q Series Network Amplifiers](#) to deliver power to the 400 pre-existing speakers spread across the 1M sq ft facility. Manufacturing plants are often noisy with the constant sound of machinery and equipment operations. This can lead to increased stress levels and decreased concentration. The Continuous Ambient Compensator, native to Q-SYS OS, analyzes the ambient noise levels and automatically adjusts the volume of the plant's sound system to compensate for the background noise. This helps to reduce the overall audio levels in the plant, making it easier for employees to communicate, concentrate, and perform their tasks effectively.

Q-SYS Amps Up Training Facility

The main training room in the new building serves as a vital hub for fostering effective communication and collaboration among team members. This versatile space can accommodate up to 135 individuals, providing an ideal setting for employee training and onboarding sessions. Equipped with a state-of-the-art 220-inch LED wall for dynamic presentations and video displays, the training room offers a cutting-edge environment for sharing information and knowledge. The adjacent break room has been designated as an overflow room and is equipped with an 85-inch LED display for additional viewing capabilities. Both the main training room and the overflow break room are furnished with [Q-SYS AcousticDesign™ Series](#) 8-inch Ceiling Speakers powered by a 4-Channel Q-SYS CX-Q Series Network Amplifier. The entire audio and video system is controlled and processed through a Q-SYS Core 110f and two Q-SYS TSC-101-G3 network touchscreens, ensuring smooth operation and optimal user experience.



Solutions

Sound Success

“AMS has been using Q-SYS for nearly a decade and has built a self-sustaining business model around it,” said Werner. “Q-SYS is our go-to product for background music, paging, sound masking, and advanced controls for clients. The ease of customization and integration with other systems, such as access control and video conferencing platforms, make Q-SYS a preferred choice.”

Cardinal Glass was thrilled with how Q-SYS performed and its impressive capabilities. Werner said, “Q-SYS has been critical in allowing our team to upgrade Cardinal Glass’s existing systems zone by zone and room by room without taking existing systems offline. It has allowed us to scale by adding network amplifiers as the client needed them. We have also been able to add additional touch screens, ambient noise compensation microphones, and features as the customer’s needs change and grow.”



Q-SYS is a globally recognized manufacturer of audio, video and control (AV&C) solutions for huddle rooms to stadiums—and everything in between. Our systems make it easy for your team to design and integrate flexible, scalable solutions and deliver the native IT integration and standards-based technology your customers expect.

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