



Autonomous, flexible and integrable sound control for a modern sports facility

In the bustling world of sports, a stadium isn't just about the game; it's a vibrant community hub. Ensuring the **safety of thousands of fans**, athletes and staff demands more than just good evacuation system – it requires **instant, clear communication**.

This was precisely the challenge faced by the Ice Hockey Stadium in Rosenheim, Germany, home to the local Starbulls team and countless community events. Their **recent renovation** wasn't just about modernizing the facility; it was about building an **efficient foundation of public safety**. This is where

Ambient System, in close collaboration with a local integrator, stepped in, deploying a smartVES Public Address and Voice Alarm System (PAVA) that **redefines crowd management**, intelligibility and emergency response.

WHAT EQUIPMENT WAS DELIVERED?

- » 1 x SMART-CU11-LCD
- » 4 x SMART-CU11-LT
- » 15 x SMART-xCtrLine-44
- » 1 x SMART-DU1604
- » 1 x SMART-AMAP6
- » 6 x SMART-ANSM01
- » 4 x WMC Wall Mount Controller
- » 3 x PAVA Racks



CLIENT'S OVERALL GOAL

The stadium's renovation presented a opportunity to upgrade its critical communication infrastructure. The core demand was clear: a PAVA system that wasn't just a standalone component, but a custom-tailored solution capable of integrating with the stadium's existing systems and third-party devices. The client's vision was ambitious – to create one comprehensive, unified safety and communication network spanning the entire facility. This holistic approach aimed to improve both everyday operational efficiency and critical emergency response capabilities.

WHAT WAS THE SCOPE OF PROJECT?

Ambient System's role was to provide and install the smartVES PAVA System, engineered to meet these bespoke requirements. Beyond the core Voice Alarm System, the project included range of loudspeakers placed for both background audio and critical announcements. The effectiveness of Ambient System solution lies in its integration capabilities, designed to connect with other stadium technologies, thereby forming a singular, cohesive evacuation system.

Operating as a highly adaptable Voice Alarm System smartVES excels in emergency evacuations, performing whether the stands are empty for practice or packed to capacity for a major game. Its intelligence lies in advanced sound control functionalities: continuous background noise measurement coupled with proprietary smartVES algorithms. These aren't just features; they're the engine that dynamically adjusts message volume and clarity, guaranteeing exceptional audibility even when faced with the roaring crowd or typical high noise of a dynamic arena.

It supports two evacuation protocols: a normal mode for daily activities (like routine announcements in administrative areas or training facilities) and a full arena mode specifically engineered for the organized evacuation of a large, dispersed crowd during potential panic threats. Even the equipment itself was chosen with a discerning eye,

with discreet desktop microphones and ceiling-mounted loudspeakers selected for their aesthetic integration, blending into the stadium's modern design.

WHAT WAS SYSTEM OPERATION?

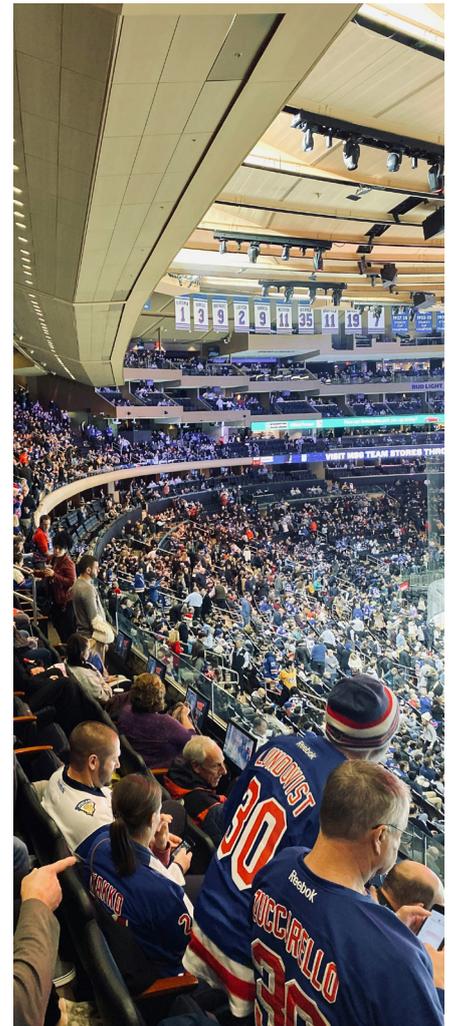
The Voice Alarm System delivers comprehensive sound control across the entire sports facility, reaching every zone from the spectator stands to critical technical rooms.

- » The system's real-time intelligence continuously measures background noise, allowing smartVES algorithms to automatically adjust message volume. This ensures optimal intelligibility for announcements, even in the most acoustically challenging environments.
- » It supports distinct evacuation protocols: a normal mode for routine operations and a full arena mode specifically tailored for large-scale emergency scenarios, offering precise control in crisis.
- » WMC wall mount controller offers two local audio inputs and one audio output, facilitating broader system extension for various applications, such as integrating music playback during ice skating shows and other events.
- » Fireman's microphones are located in key areas like the central operational control room and technical rooms, providing immediate command access for emergency announcements.

SUMMARY

The Ice Hockey Stadium in Rosenheim now stands as a testament to intelligent public safety design. This project highlights several advantages:

- » **Custom-engineered safety:** A smartVES Voice Alarm System fitted to the stadium's operational and safety needs.
- » **Unified infrastructure:** integration with existing stadium technology, creating a single communication and safety platform.



- » **Guaranteed clarity:** Leveraging proprietary smartVES algorithms for dynamic sound adjustment ensures every message is clear, regardless of noise. *dźwięku zapewnia krystaliczną zrozumiałość każdej wiadomości, niezależnie od poziomu hałasu otoczenia.*
- » **Adaptive readiness:** Dedicated „normal” and „full arena” evacuation modes provide pre-planned responses for any occupancy level.

Through this advanced smartVES deployment, the Ice Hockey Stadium in Rosenheim is not just ready for game day, but for any day, ensuring a safer, more controlled and more enjoyable experience for everyone who walks through its doors.