

**BOSE**

PROFESSIONAL



CASE STUDY - EDUCATION | FARGODOME





## DELIVERING CHAMPIONSHIP-CALIBER SOUND TO THE FARGODOME

Located in Fargo, N.D., on the campus of North Dakota State University (NDSU), the FARGODOME is a public indoor athletic stadium home to the NDSU Bison football team. First opened in late 1992, the facility is owned by the City of Fargo and managed by the Fargo Dome Authority.

The Bison football team competes in the National Collegiate Athletic Association (NCAA) at the Division I level in the Football Championship Subdivision (FCS) and is a member of the Missouri Valley Football Conference. The stadium also hosts NDSU graduation ceremonies as well as large concerts, other sporting events and trade shows. The stadium seats 18,700 fans for football and over 25,000 attendees for full-arena concerts.

The stadium consists of 466,000 square feet, including the indoor box office and multipurpose space additions. The flexible space allows the FARGODOME to host a variety of events like corporate meetings, theater shows and weddings.

While the FARGODOME may be home to the winning Bison, the stadium's audio system was failing to deliver the sound quality needed across the variety of events.

## AN AGING AUDIO SOLUTION FALLING SHORT OF FAN EXPECTATIONS

The existing professional audio system at the FARGODOME had not been updated since 2006. Prior to the new installation, the stadium's sound technicians began experiencing issues with aging amplifiers, and processors designed to continuously monitor the load impedance of each amplifier began to fail during live events.

FARGODOME sound technicians often found themselves having to repair and replace the audio system components prior to large stadium events, and the aging system became too costly to maintain.

The Fargo Dome Authority turned to integrator AVI Systems to deliver a modern, premium quality sound solution.

## ELEVATING THE FARGODOME'S AUDIO PERFORMANCE WITH BOSE PROFESSIONAL

AVI Systems chose Bose Professional ArenaMatch loudspeakers, coupled with Bose Professional amplifiers, to deliver a more intelligible sound that was flexible enough for a variety of event sizes and audiences.

AVI Systems worked closely with Bose Professional to develop a plan that enabled the FARGODOME to use its existing infrastructure and minimize installation time. The team was able to utilize its existing fiber, CAT 5 cabling and software and replaced the outdated system with a new Bose Professional solution to promote a superior audio experience for event attendees.

## **A NEW ERA OF ENGAGING EXPERIENCES AT THE FARGODOME**

The FARGODOME's premier Bose Professional system enables sound technicians to focus on providing exceptional sound quality to attendees rather than troubleshooting problems with outdated equipment.

The new system provides a clearer, more enhanced audio experience that attendees noticed immediately during concert performances by the likes of Bob Seger & The Silver Bullet Band, as well as during referee announcements at college football games.

"This was a smooth transition from our outdated audio system to a modern, easy-to-maintain system," Matt Costello, technical services manager at the FARGODOME, said. "AVI Systems and Bose worked with us to install the new equipment in a very short timeframe, which was important so we could accommodate our scheduled events. The audio quality is so much better that there are now occasions where we can use fewer, speakers depending on the event. The new system has created a better end-user experience."

## **SYSTEM COMPONENTS**

**ArenaMatch AM10 DeltaQ** array loudspeaker

**ArenaMatch AM20 DeltaQ** array loudspeakers

**ArenaMatch AM40 DeltaQ** array loudspeaker

**PowerMatch PM8500N** power amplifier

**PowerMatch PM4500N** power amplifier

**RoomMatch RMS218 VLF** subwoofer



Bose Professional serves many different markets, delivering great sound in venues all around the world - performing arts centers, theaters, places of worship, stadiums, restaurants, schools, retail stores, hotels, and corporate buildings.

We know that our pro audio customers depend on us in a unique way. This is your business, your reputation, your livelihood — not just an amp, not just a loudspeaker. So, when you buy a Bose Professional product, you get the full weight of the global Bose Professional team, behind you — our time, support, and attention. We see every purchase as the beginning of a partnership.



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