

Case Study: Long Bridge Aquatics & Fitness Center AV Integration



BACKGROUND

Arlington County developed the 92,000-square-foot Long Bridge Aquatics & Fitness Center as a modern, community-focused facility featuring a 50-meter competition pool, leisure pool, fitness center, and multi-purpose spaces.

Designing AV systems for this environment presented a unique challenge—water, humidity, and reflective surfaces can quickly degrade traditional systems and impact performance.

OBJECTIVE

Create a durable, easy-to-use AV environment that delivers:

- Clear, intelligible audio across large, reflective pool spaces
- Reliable video for events, competitions, and community programming
- Simple operation for staff without dedicated AV expertise
- Long-term performance in a harsh aquatic environment



"One of the things we hope to do soon is a movie night, with people watching from the pool, the pool deck, or even our spectator seating area... there are so many different things we can do with that video board—the opportunities are endless."

Iggy Rodriguez.
Assistant Manager at Long Bridge



"...phenomenally easy. We don't have any dedicated AV staff here on site—and it's truly a very easy thing to do."

Iggy Rodriguez.
Assistant Manager
at Long Bridge

TECHNOLOGY-AT-A-GLANCE

- **Planar**
CarbonLight LED Video Wall
- **d&b** Audiotechnik
Loudspeakers & Amplification
- **Vaddio** Live
Production Controller
- **RoboSHOT** PTZ
Cameras
- **Panasonic**
Projectors
- **Shure** Wireless
Microphones
- **Crestron** Control
Systems

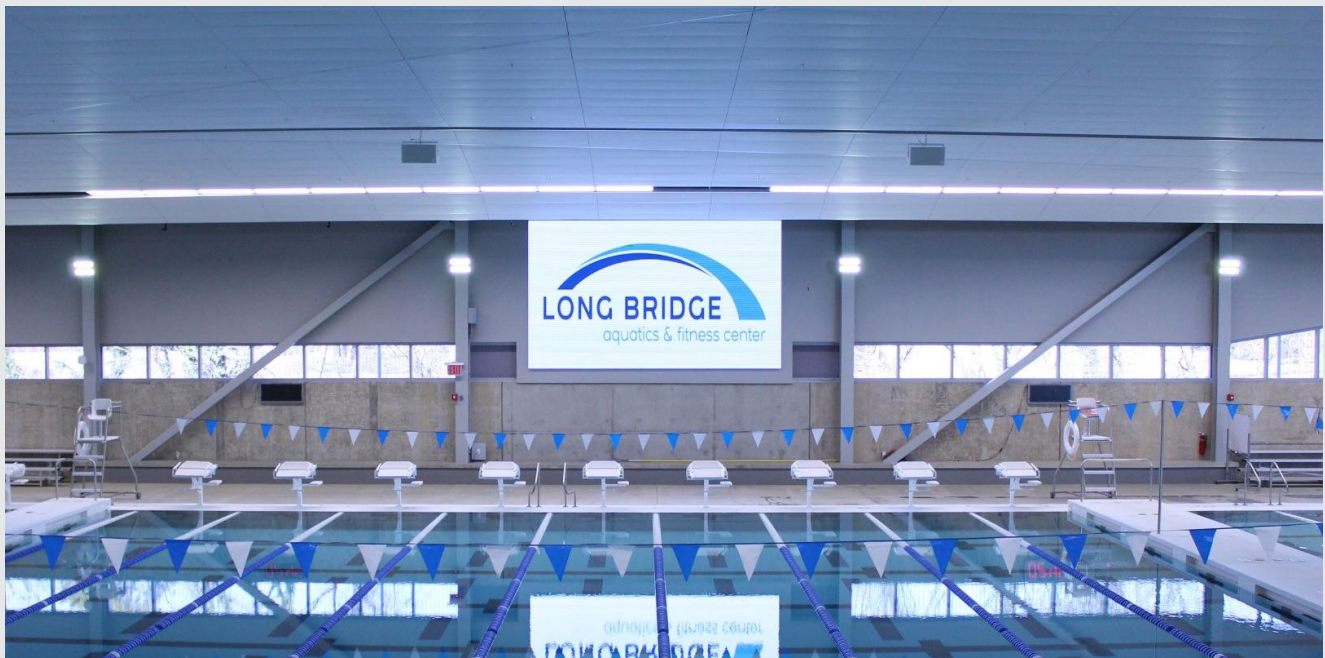
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SOLUTION

Productive AV partnered with Arlington County from the design phase to deliver a resilient, high-performance AV system:

- **Water-Resistant System Design:** IP-rated components and custom waterproof integrations protect equipment from humidity and corrosion
- **High-Impact Visuals:** A large-format LED video wall provides a central display for announcements, live video, scoring, and event content
- **Optimized Audio Performance:** Acoustic modeling and weather-treated loudspeakers ensure clear, consistent sound despite challenging surfaces
- **Integrated Production Capabilities:** Cameras and live production tools support streaming, recording, and enhanced spectator experiences
- **Simple, Intuitive Controls:** User-friendly interfaces allow facility staff to operate systems easily—no specialized AV team required

The result is a reliable, easy-to-use AV environment that supports everything from swim meets to community events—without adding operational complexity.



Competition Pool + Video Wall

Large-scale display enhances events and communication—keeping athletes, staff, and spectators informed in real time.

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Control & Production System

Integrated production tools enable live streaming and content capture—expanding reach beyond the facility.



Multi-Purpose Room

Simple, intuitive AV systems allow staff and community members to host meetings and events with ease.