Zenty
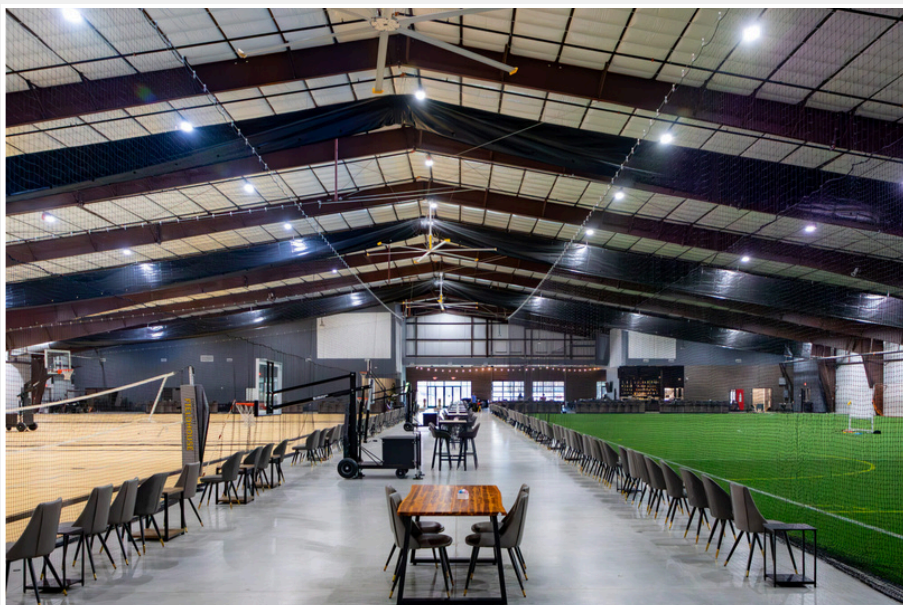
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Commercial Case Study

COMMUNITY FIELDHOUSE

SPORTS COMPLEX | RESTAURANT & BAR | ENTERTAINMENT VENUE

Wits End Technology LLC

Community Fieldhouse is Houston's premier destination for sports, dining, and community; where friends, families, and athletes come together for fitness, entertainment, and events.

Transforming Community FieldHouse with Zenty AV-over-IP Solutions
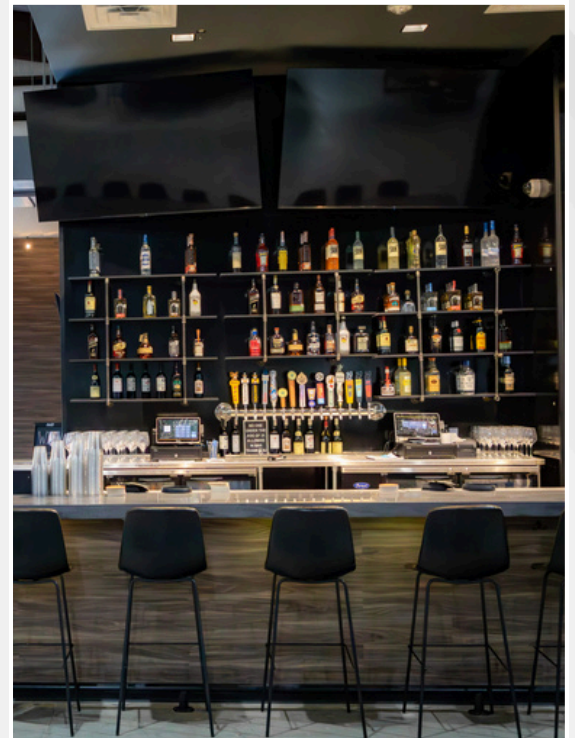
OVERVIEW

At the Community Fieldhouse, sports, dining, and entertainment all converge in one of Houston's most dynamic venues. The entire IT infrastructure and technology design was created by Wits End Technology LLC, who also selected Zenty's AV-over-IP platform as the backbone of the AV portion of the total solution. This ensured content flows effortlessly across displays, cameras, projectors, sports simulators, and audio speakers resulting in a connected, engaging environment that supports community at every level.
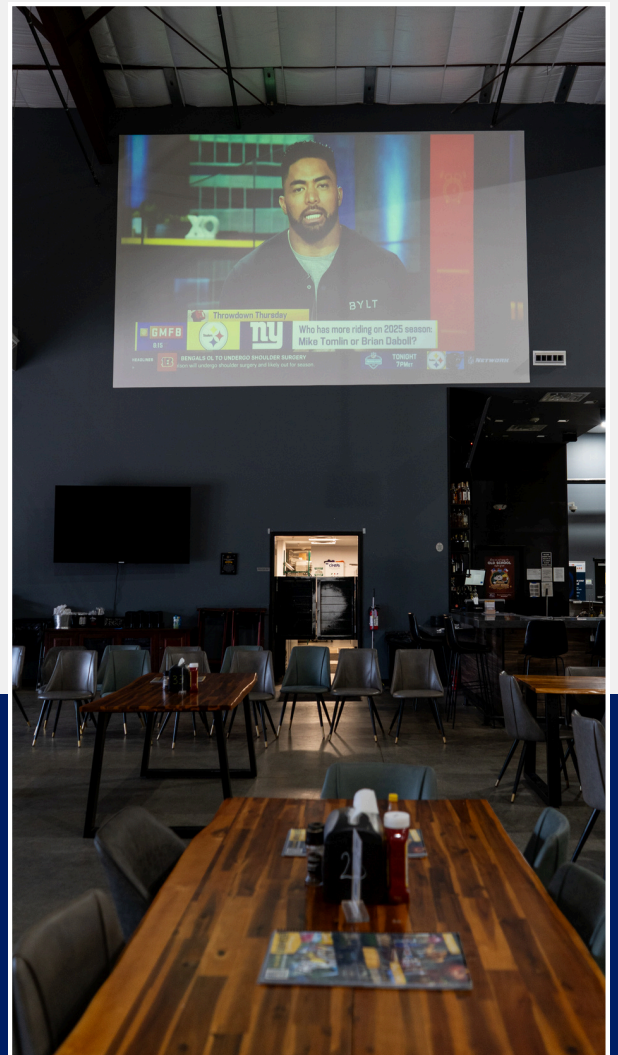
"This system is pretty easy to operate. I love how everything connects and you can easily control everything on the app. We just drag and drop whatever content we want to whatever screen." – Andy, Field House Director

THE CHALLENGE

- Manage dozens of TVs across dining areas and turf fields
- Stream camera feeds from different courts for parents and guests
- Support specialty installations like a golf simulator with projection
- Deliver clear, consistent audio throughout the venue
- Stay simple enough for staff to operate without technical training

THE SOLUTION

The Fieldhouse installation included a wide range of Zenty and J-Tech Digital solutions to deliver flexibility and performance:

Zenty 48-Port Network Matrix Switch (ZT-IPS48)

Provided the backbone of the installation, allowing all encoders and decoders to connect into one central platform. This switch ensures smooth routing of AV signals across dozens of endpoints and gives administrators the ability to scale as the facility grows.

Zenty 1080p AV-over-IP Transmitters & Receivers (ZT-IP250E / ZT-IP250D)

These units serve as the workhorses of the system, encoding and decoding video streams so that any source can be displayed on any screen. From TVs in the dining area to projection in the golf simulator, they guarantee low-latency and high-quality video distribution.

THE SOLUTION

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Zenty IPTV Encoder 1080p (ZT-EN200)

Designed for encoding live video content, this device makes it possible to share court feeds or live events directly over the IP network. This empowers parents and visitors to view activities from different parts of the Fieldhouse on the displays around the facility.

Zenty PTZ HDMI NDI Camera 20X (ZT-PTZH20-NDI)

These cameras provide flexible and high-quality capture for sporting events and training sessions. With 20X zoom and NDI integration, they offer powerful coverage of large courts while staying easy to control remotely

Zenty AP40 Mini 40W Amplifiers (ZT-AP40)

Small but powerful, these amplifiers distribute audio throughout the venue. They ensure that announcements, background music, and event commentary are clear and consistent across different zones

THE SOLUTION

The Fieldhouse installation included a wide range of Zenty and J-Tech Digital solutions to deliver flexibility and performance:

4x1 Multiviewer with VGA (JTECH-MV41V)

Enabled operators to show multiple sources on a single display. Perfect for control rooms or managers who need to keep an eye on several feeds at once

4K60 Audio Extractors with ARC (JTD18G-H5CH2)

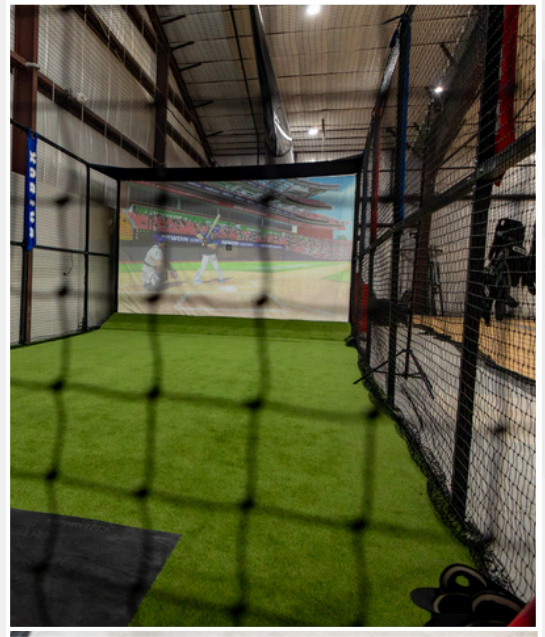These devices allow audio to be separated from HDMI video feeds. This is critical for integrating with external sound systems, ensuring both the restaurant area and turf field have synchronized sound

IPTV H.265/264 Decoders w/ NDI (JTECH-DE5NDI)

Provided reliable decoding for network-distributed video streams. These units help ensure smooth playback on all displays, even during high-traffic use

RESULTS

Streamlined Operations

Staff can manage all displays and audio from a single tablet interface, saving time and reducing errors.
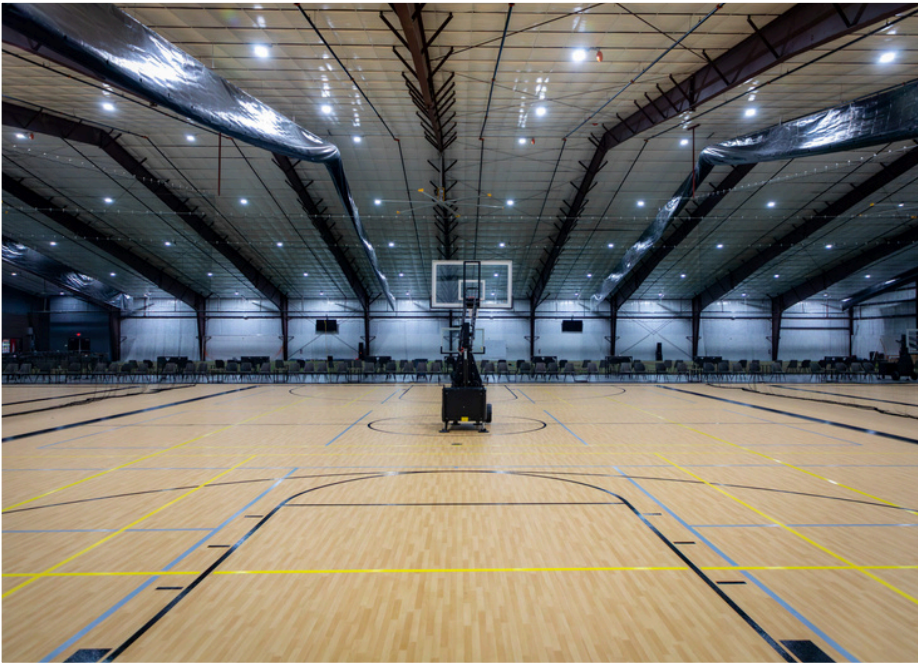
Flexible Distribution

Any source can be sent to any display or speaker zone, making the system adaptable for different events.

Immersive Atmosphere

Guests enjoy live sports, replays, and entertainment across every screen and audio zone.

"This installation was only the beginning. With Zenty, we now have a system we can keep building on; scoreboards, a full PA system, you name it." – Andy, Field House Director

CHALLENGES & OPPORTUNITIES

- **Camera Stability:** Occasional need for reboots, mitigated with automated resets
- **Communication Needs:** Desire for a building-wide PA system
- **Expansion:** Future scoreboard integration under consideration

CONCLUSION

The FieldHouse now enjoys a modern, flexible AV infrastructure that connects dining, training, entertainment, and live sports into one ecosystem. With Zenty's AV-over-IP solutions and WitsEndTechnology's clean design and install, the vision came to life!

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