



Empire Polo Club

Case Study - ADRF Delivers Seamless Wireless Coverage to Coachella Music Festival



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Image by : Drew Ressler Via Wikimedia



Empire Polo Club

Case Study

Location:	Indio, CA
Size:	330 Acres
Carriers:	AT&T, T-Mobile, and Verizon Wireless
Frequency Bands:	700, 850, 1900, 2100, 2300 MHz

Overview

The Empire Polo Club is one of the largest polo clubs on the west coast of the US. Inside, there are 12 grass polo fields, regulation-sized polo arena, two exercise tracks, the Tack Room Tavern Restaurant, Date Shed Night Club and home to the massive Coachella Music Festival.

The festival itself takes up 78-acres when accounting for space taken up for parking and camping. Coachella is attended by roughly 250,000+ music fans and needs a very complex and a powerful outdoor wireless network to accommodate all the bandwidth from streamers, photos and videos broadcasted from the club.

ADRF teamed with Anthem Telecom, CTS, and other partners to design and install a neutral host system using its ADXV DAS to enhance wireless communications throughout the venue. The project started in 2018 and the installation was successfully completed for the Coachella festival in April, 2019. The system was upgraded in 2022 to meet increasing demand for voice and data service.

The Empire Polo Club was an immense deployment that exhibits multi-sector, multi-carrier, and multi-frequency bands and serves as a hallmark to ADRF.

Challenges

- The desert environment included heat, wind and dust. Special strategies with RF design as well as cable and equipment installations were needed for 330 acres of coverage
- The network needed to exceed expectations and bandwidth demands for Coachella music festival attendees
- The setup had to maintain low noise interference in small sector beams
- The Empire Polo Club also required a system that can be easily upgradeable and future friendly

Solutions

- ADRF's ADXV DAS was used to due to its flexibility to support all carrier networks including BRS
- An 82 MIMO sector system comprised with 153 Head ends and 114 remotes were installed ensuring strong mobile coverage and capacity throughout the venue
- ADXV supports 4G LTE and 5G technologies and all major wireless carriers to support both voice and data usage
- The ADXV's modular design made upgrading the system quick and simple

About ADRF

ADRF is the leading provider of in-building wireless solutions that ensure reliable connectivity in venues of any size, shape and location. Established in 1999 in Burbank, CA, ADRF prides itself on having a customer-centric focus, designing solutions that meet each customer's unique needs, while providing a pathway to scale for the future. Today, we serve some of the world's leading enterprises, system integrators, public safety entities, neutral host operators, and wireless service providers.

ADRF is TL 9000 and ISO 9001 certified. Our solutions are modular and designed to provide flexibility, scalability and lower cost of ownership as you only pay for what you need. We have a comprehensive portfolio of in-building wireless solutions including Distributed Antenna Systems (DAS), Repeaters, Antennas, and Components, and our vertically integrated supply chain allows us to maintain the industry's highest reliability and shortest lead times.