



Empire Polo Club

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



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Empire Polo Club

Case Study

Location: Indio, CA
 Size: 330 acre
 Customers: AT&T, T-Mobile, and Verizon Wireless
 Frequency Bands: 700, 850, 1900, 2100, 2300 and 2600 MHz

Overview

Empire Polo Club was founded in 1987 near Palm Springs, two hours away from Los Angeles and San Diego. It has five event venues including twelve polo grounds, making it one of the largest polo clubs on the West coast of the United States. The venue hosts local, national and international matches and tournaments. The venue is also known for the organizers of the Coachella Valley Music and Arts Festival. The festival is hosted at the 78-acre Empire Polo Club when accounting for land used for parking and camping, the event covers a footprint of over 600 acres. The festival showcase the most renown music artists and the 2017 festival was attended by 250,000 people and grossed \$114.6 million.

In 2016, the Empire Polo Club planed on improving wireless coverage to enable mobile devices for visitors and event attendees. The system needed to survive harsh outdoor dessert environment and support all operators' networks. It also had to support voice and data demands from a large crowd during Coachella and other events throughout the year.

ADRF teamed with Anthem Telecom and system integrators to design and install neutral host systems using its ADXV DAS to enhance wireless communications throughout the venues. After an upgrade in 2018, the installation was successfully completed for the Coachella festival in April, 2019.

Challenges

- The 330 acre Empire Polo Club required cellular coverage throughout the venue.
- The harsh outdoor dessert environment created special challenges with RF design as well as cable and equipment installations.
- The system needed to support 3G and 4G networks from all major wireless carriers.
- The system needed to support capacity demands for the Coachella music festival attendees.
- The system had to maintain low noise interference in small sector beams.

Solutions

- ADRF's ADXV DAS was deployed to robustly support all carrier networks.
- 82 sectors system comprised with 153 Heads Ends and 114 Remotes were installed ensuring mobile coverage and capacity throughout the venues.
- ADXV supports 3G and 4G technologies and all major wireless carriers to support both voice and data usage.

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.