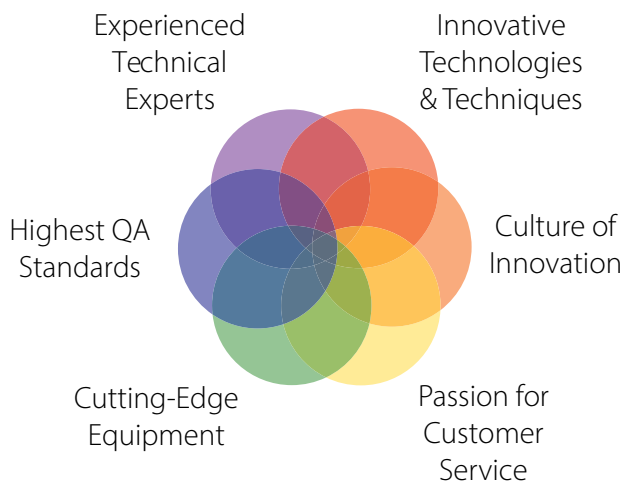




Innovative Solutions for Broadcasting  
and Streaming Live Events

## Get to Know CP Communications

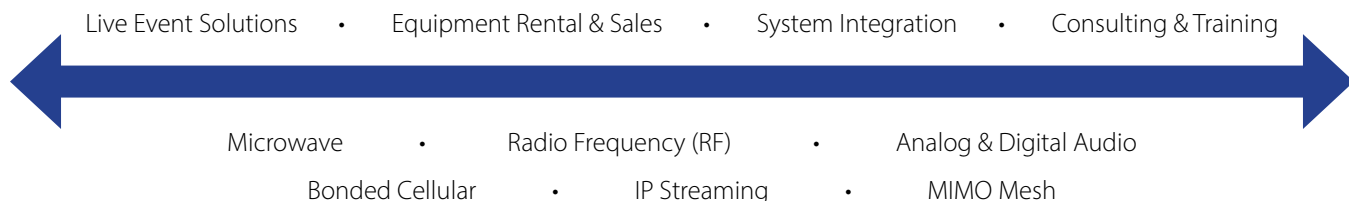
For more than three decades CP Communications has provided high-quality, cost-effective live event production and streaming solutions to the premium sports, entertainment, corporate and news markets. Our offerings include access to experienced professionals, cutting-edge equipment, and innovative technologies and techniques for audio and video content acquisition, transport and delivery.



We are proud to call many of the world's major broadcasters, sports leagues and teams, and event production companies among our customers. Our culture of innovation, coupled with the highest quality assurance standards and a true passion for customer service, promotes collaboration with each and every client to determine the best custom solution for their live event — no matter how big or small.

Let our Emmy Award-winning team take your live production to the next level.

### Complete Solutions Across Multiple Applications & Technologies



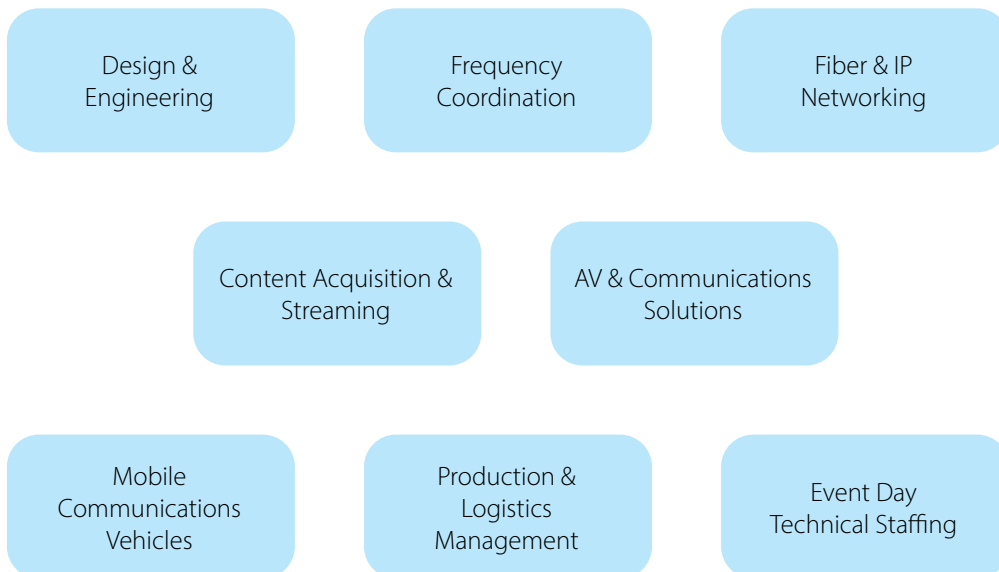
## Live Event Solutions

Every live event is unique and requires a customized approach to ensure your objectives are achieved fully and cost-effectively. That's why we leverage our three decades of experience, deep engineering expertise and cutting-edge technology to provide every client with a turnkey solution for seamlessly delivering high-quality live events to global audiences.

CP clients gain access to our disciplined processes, team of experts and other resources to design, plan and support seamless live event productions. Our proven track record highlights the confidence our clients place in us. No wonder our high standards and core philosophy of partnering with clients delivers the uncompromising results demanded by leading organizations such as the NFL, Major League Baseball, the NHL, CBS Sports, Fox Sports, the New York City Road Runners, YouTube, AT&T, IMG Media, The Economist and Jack Morton Worldwide.



### A Proven Disciplined Process, From Planning Through Implementation



### Red House Streaming Cam STREAM Production Packages



***Dream it. Shoot it. Stream it.***

Cam STREAM is a family of glass-to-glass production and streaming solutions for every type of live event. The robust, secure and reliable cloud-based platform includes IP content acquisition, production, remote management and delivery. Just connect Cam STREAM to power and turn it on. The system automatically calls a CP network operations center, and within minutes you're ready to live stream a virtual event featuring broadcast-quality 1080p60 video and up to two channels of remotely controlled audio.

Cam STREAM makes it incredibly simple and cost-effective to shoot and record HD live video remotely and deliver it to websites, social media platforms or any URL. It's an ideal solution for most any production application, including:

- **Sports & News**
- **Esports**
- **Virtual Live Events**
- **Medical Conferences**

With the explosive growth of programming created expressly for streaming platforms, content creators require a simple, cost-effective method for capturing live action. At the same time, the economic realities of live production can limit the ability to meet demand. The Red House Streaming (RHS) line of Cam STREAM content acquisition solutions, offered exclusively by CP, solves both of these challenges.



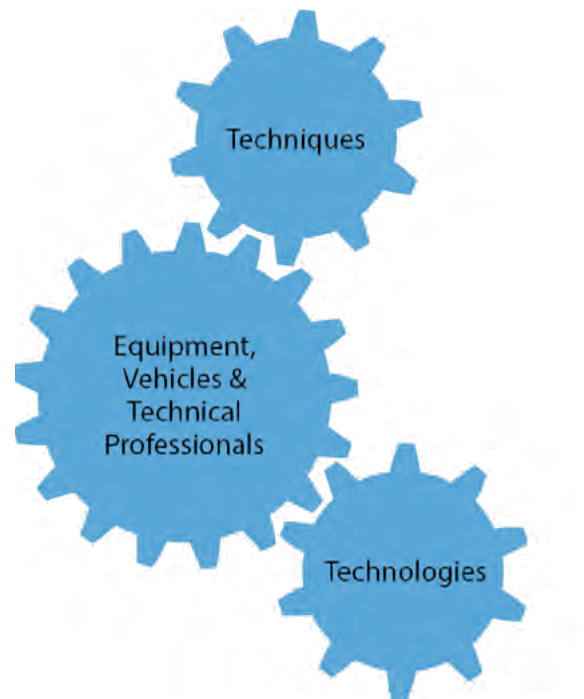


## Design & Engineering

The design and engineering phase of our process is critical to our clients' success. It starts with a clear understanding of your objectives, and then collaborating with you to determine the right combination of technologies, techniques, equipment and people required to achieve your objectives efficiently and cost-effectively.

Whether your event is scheduled to be nationally broadcast over the air (OTA), delivered via cable or satellite, or streamed to an over-the-top (OTT) or social media channel, our team will help you deploy the ideal methodology for capturing, transporting and delivering your content.

In the event your technical needs require more than common-off-the-shelf equipment, our in-house engineering and fabrication capabilities can meet most any challenge. From electrical and electronic to mechanical and structural, we're able to customize solutions with thoughtful, well-designed and packaged audio and video components, and provide support assemblies that are durable and dependable. In all cases our goal is to exceed your expectations with solutions that are delivered on time and on the mark.





## Frequency Coordination

The convenience and ease of wireless devices offers tremendous flexibility for broadcasters and event producers. There can be limitations and problems, however, if the devices are not properly coordinated and managed. Because most audio and video devices used for live events work within the same frequency bands, organizing available spectrum is critical.

Large live events can have in excess of 500 individual wireless devices and an equal or greater number of frequencies in simultaneous use within the venue. Other devices, which may not be directly involved in the production, can also impact the show's wireless equipment. One rogue wireless device can have a devastating impact on a live shoot.

We assign a designated frequency coordinator to ensure that all wireless cameras, microphones, communications and audio equipment in the network are in sync and free of interference on event day. As part of the planning process, our coordinator performs thorough analyses, including a spectrum analysis, to ensure compliance with all FCC regulations.

CP Communications makes sure you are ready to go on event day!

### Services Include

- RF spectrum site surveys & transmission link paths
- Intermodulation analysis and avoidance
- Special Temporary Authorities
- Pre-event coordination & registration of wireless users
- On-site event frequency coordinators
- Spectrum auction rebanding & re-allocation consulting

## Fiber & IP Networking

The increasing demand to capture the sights and sounds of a live event — from all angles and from multiple locations inside and outside the venue — necessitates increased levels of cabling infrastructure.

Transporting multiple high-bandwidth signals in a lightweight cable makes fiber optic cabling the go-to choice at venues for most media professionals. Because fiber infrastructure is such a critical part of the live production, the CP team works closely with you to ensure that all signals on the day of your event flow error-free.

IP-based workflows capable of transporting real-time high-bitrate signals are also on the rise. IP networking helps reduce the number of cables required on-site while providing the ability to support multiple production and distribution formats. The extended bandwidth and open nature of an IP infrastructure helps pave the way for your adoption of new high-resolution video formats such as 4K and high color-gamut formats such as HDR.

For both fiber optic and IP networking and engineering services, CP Communications is your can't-miss resource.

### Solutions

- Custom Turnkey Solutions
- Design, Installation, Maintenance
- Custom Cable & Repairs
- World-Class Engineers
- 24/7 Support

### Coverage

- Audio
- Video
- Camera
- Communications
- IP
- Data





## Mobile Units

The mobile unit (MU) houses the core infrastructure for the production and distribution of content outside the venue.

MUs can vary in size from a small Ford Sprinter- type van to a large 53-foot tractor-trailer with expanding sides. Large events with multiple broadcasters can have several big rigs on site. Smaller vehicles are generally used for live events that span long distances, such as marathons, bike races and parades.

CP Communications offers a fleet of event production vehicles to support all of your broadcast and event needs. Our flagship production unit, HD-21, is equipped with a cutting-edge RF routing system and MIMO mesh Wi-Fi technology, and has provided seamless switching and wireless camera integration for clients such as FOX Sports, ESPN and MLB Network. RF7, our 53-foot event production trailer, is equipped with Panasonic IP cameras and digital trunking capabilities for large-scale event communications and security.

Also available are customized Smart Cars, Suzuki mini-trucks, BMW motorcycles and a variety of hauling trailers.

### Custom Cars & Trucks



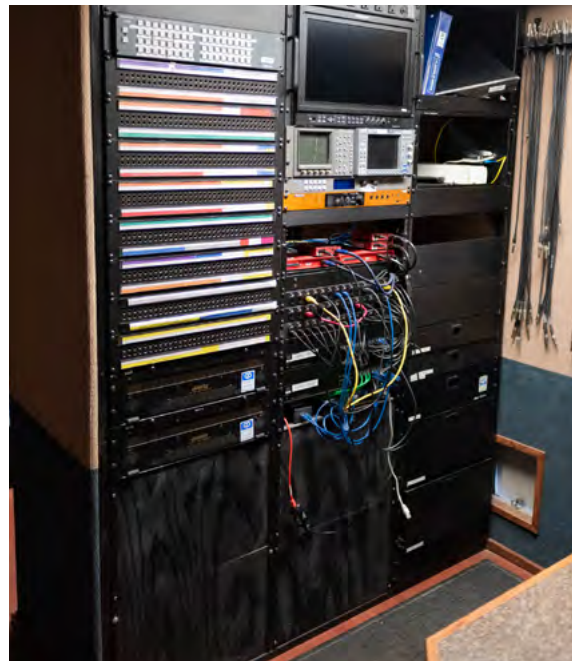
### Hauling Trailers



### Event Production Units



### Production Unit Engineering Room



### Motorcycles





## Production Logistics & Management

Our Production and Operations Management services provide the resources and assistance needed to balance the technical complexities of an event with the personnel and logistics required for live sports and entertainment productions.

From crewing a show with the most qualified technicians to providing on-site management, CP Communications offers a large staff of highly trained technicians and independent freelancers who are expert in the technical aspects of video and audio production, processing and distribution. By paying close attention to detail, we can help you achieve a diverse range of production goals, whether you need us to operate as part of your team or independently.

- Event Logistics
- Production Management
- Operations Management
- RF & Fiber Optic Production Trucks & Transportation
- Air & Ground Transportation
- Hotel Accommodations
- Dedicated Trucking (Long Haul)
- Trade, Technical and Management Labor

## Event Day Technical Staff

CP's experienced professionals provide critical support on the day of the big event.



- Project Managers
- Production Managers
- Technical Managers
- RF Video/Audio/Communications Technicians
- Communications Managers
- Fiber Technicians
- Audio Engineers
- Video Engineers
- Communications Engineers
- Frequency Coordinators
- Drivers
- Consultants



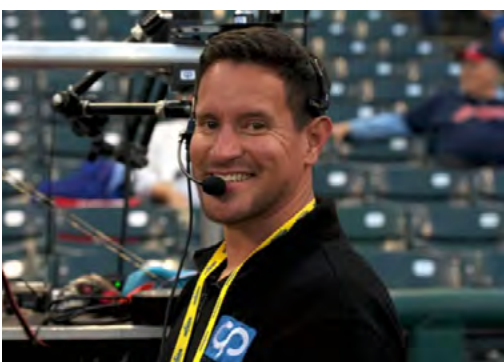
## System Integration

CP Communications supports a wide variety of clients who want to implement the best and most cost-effective production solutions for both permanent facilities and temporary venue locations. Our team of professionals provides the trusted resources to design, engineer, install and support/maintain solutions for permanent broadcast facilities, major events and live game venues.

We collaborate with you to ensure every solution delivers exceptional performance and meets or exceeds your objectives. We tackle every project as if it is our own. System Integration projects we have completed for our clients include:

- **Yankee Stadium** – RF Design & Infrastructure
- **Vice Media Studios** – RF Design & Infrastructure
- **Nationals Park** – RF Design & Infrastructure
- **Metropolitan Opera** – RF Design & Infrastructure
- **YouTube Studios** – RF Design & Infrastructure
- **Lucas Oil Stadium** – RF Design & Infrastructure
- **NBC Studios at Rockefeller Center** – RF Design & Infrastructure
- **Radio City Music Hall** – RF Design & Infrastructure
- **TD Garden** – Wireless Winch Control
- **Lang Performing Arts Center** – RF Design & Infrastructure
- **NHL** – Referee Mics, All Arenas
- **MLB Network Studios** – A/V Systems Integration
- **NFL Films Studios at Times Square** – A/V Systems Integration
- **SNY Studios** – RF Design & Infrastructure
- **AT&T/DirectTV Studio** – A/V Systems Integration

## Consulting & Training



At CP Communications we view our clients as partners. Periodically, clients seek our assistance in creating solutions related to Innovation, Transformation, Optimization and Training; on these occasions we'll customize special projects to help enhance their business. Our goal is always the same — to provide the highest-quality, highest-value service for each and every one of our clients.

## Equipment Rental & Sales

CP Communications offers direct access to a wide range of industry-standard content acquisition and distribution technologies. Our production packages provide complete solutions for accomplishing every client objective. We also give you choices to rent, buy and/or lease equipment, along with technical support 24 hours a day, seven days a week.

- A/V Systems
- Audio
- Fiber & IP Networking
- Intercoms
- Microwave Links
- Two-Way Radios
- Video
- Wireless Audio
- Wireless Video



## AV & Communications Solutions

Corporate event producers are increasingly looking for broadcast-quality solutions that fit within their tight budget guidelines. As a provider of high-end broadcast television solutions, CP Communications is ideally positioned to meet these requirements with cutting-edge technology, creativity and the finest service. Our goal is simple: help you deliver first-class corporate events that your audiences will not soon forget.

### Equipment

- Wired & Wireless Audio
- Wired & Wireless Video
- PA Systems
- LED Walls
- Fiber Optics
- Intercom
- Microwave Links
- Two-Way Radios
- Engineering & Design

### Services

- Fiber Services
- Frequency Coordination
- Mobile Productions
- Production & Operation Management





Innovation  
Advanced Technologies  
Wireless Expertise  
Customized Solutions  
Unparalleled Customer Service



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