

Solution Brief

STREAM Production Packages

Turnkey Content Acquisition and Streaming Solutions

With the explosive growth of programming being created for streaming platforms, content creators require a simple, cost-effective method for capturing live action and streaming it in real time to YouTube, Facebook or other website — or back to the studio for at-home production workflows. At the same time, the complexity and cost of live production in the field can limit the ability to meet demand. The Red House Streaming (RHS) line of STREAM content acquisition solutions from CP Communications solves both of these challenges. The Cam STREAM content acquisition solution from CP Communications changes the equation in your favor, allowing you to produce and stream live video simply and cost-effectively.



RHS STREAM packages eliminate the need to assemble systems across multiple vendors and service providers. Simple to deploy and control, the IP-based packages allow users to produce more content at lower prices with little to no time-consuming engineering required.

Four options, covering applications from single-camera shoots to multi-camera productions, are available for purchase or rent:

- **Cam STREAM**, for basic single- or dual-camera production
- **ENG Cam STREAM**, for remote production from the most challenging locations
- **Multicam STREAM**, for at-home production with up to four cameras
- **Production STREAM**, for production with up to seven cameras

The STREAM family is designed to serve most any content acquisition and production need, but is especially appropriate for budget-conscious live event streaming and at-home production. All three packages feature Mobile Viewpoint (MVP) encoding and decoding technology, and can send signals over IP and bonded cellular networks. Remote PTZ camera control and shading greatly reduces the need to hire a camera crew while ensuring coverage with virtually any shot or camera angle.

Cam STREAM

Cam STREAM is a single- or dual-camera acquisition system with streaming support over Ethernet, WiFi and bonded cellular networks. The highly portable system is designed for rapid deployment in the field and simple setup, making it ideal for both direct streaming and traditional video production.

Solution Highlights

- Four flexible and scalable pre-packaged solutions
- Mobile Viewpoint encoding and decoding technology
- Fast, easy setup
- Local or remote camera control
- Wi-Fi, Ethernet and bonded cellular signal transport
- Stream directly to Facebook, YouTube or any URL
- Available for purchase or rent

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Camera control is enabled through a browser-based interface, which can be accessed locally or remotely through the MVP TerraLink-M encoder. Also included is a Ubiquiti Networks UniFi 16-port PoE switch and a power conditioner, allowing the entire acquisition system (exclusive of camera, camera mounting and accessories) to fit in an 8RU case. The Playout 2K4 decoder comes in a 4RU case that also includes audio disembedding and power conditioning.

The base Cam STREAM package comes supplied with SIM cards and 20GB of cellular data, along with standard accessories (cables, batteries, etc.). It's an ideal plug-and-play, broadcast-quality solution for unattended operations, including corporate events, distance learning, worship services, and modest TV studio productions.

ENG Cam STREAM

The ENG Cam STREAM solution merges the benefits of bonded cellular with cutting-edge video technology. Designed for high-end production and streaming across a range of applications, ENG Cam STREAM lets you shoot and stream broadcast-quality video wherever you need to go, including places that may not be reachable by a satellite or production van.

The turnkey package provides two channels of broadcast-quality video at resolutions to 1080p with up to eight embedded audio channels. It is built around a Sony PXW-X400 XDCAM camcorder and Mobile Viewpoint (MVP) Agile AirLink encoder. The X400 is an advanced shoulder camcorder that offers exceptional weight balance, low power consumption and high-quality video. Agile AirLink is a wearable, ruggedized encoder and transmitter that bonds eight 4G/3G modems for superior live streaming to YouTube, Facebook, a playout server in your control room, or any URL.

Multicam STREAM

The Multicam STREAM system elevates productions with support for four cameras, 32 audio channels and data (including return tally and four-wire intercom). All camera feeds are simultaneously ingested, and can be decoded and delivered to service providers as individual SDI feeds or a single stream. The solution is designed for at-home production, but its high-end capabilities also make it well-suited to supply individual video streams for network distribution.

At the heart of the Multicam STREAM package is the MVP TerraLink-M 4C multichannel encoder, which can deliver four HD-SDI signals via Ethernet, WiFi or bonded cellular. Multicam STREAM is

supplied with up to four cameras that can be any mixture of PTZ and traditional handheld units. IP-based camera pan controls can be operated locally or remotely, depending on the camera selection. Four audio embedders are also included, allowing the maximum number of audio channels to be accessed. Additionally, the Multicam STREAM solution includes two PreSonus StudioLive 32-channel digital mixers.

The receive/decode/playout side of Multicam STREAM features the MVP Playout 4C1 multicam decoder and can be outfitted with audio disembedders, if needed. The acquisition/field components of Multicam STREAM fit in a 10RU case and the receive/decode hardware fits in a 4RU case.

Production STREAM

The Production STREAM package is a multicamera flypack acquisition system for on-site and remote productions with larger I/O signal requirements.

Capable of handling up to seven cameras, the all-in-one Production STREAM solution matches an MVP TerraLink multicamera

encoder with a Simplylive video switcher and a Yamaha Tio1608-D Dante-equipped stagebox with 16 microphone/line inputs and eight outputs. Users can employ their audio mixer of choice. The Dante network audio protocol enables very rapid deployment in the field and high-bandwidth bi-directional audio delivered via a single cable to multiple locations on site. The MVP Playout 2K4 decoder is the standard decoder for Production STREAM but can be swapped for another unit depending on needs and the number of streams required. For larger installations, the Simplylive ViBox 16 can be used in place of the ViBox 8 Mini.



The Production STREAM content acquisition package

The basic Production STREAM field package consists of a 10RU field case and a 4RU studio/receive case. Additional field racks to support expanded capabilities can be added, as needed. are available for purchase or rent.

About CP Communications

CP Communications is a leading provider of live broadcast solutions for premium sports, entertainment, corporate, news and other live events. The company's solutions feature innovative technologies for wireless audio and video content acquisition, as well as access to an Emmy-winning team of experienced professionals. For three decades running, CP has serviced a wide range of clients including major broadcasters, sports leagues and teams, and event and production companies.



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