

Solution Brief

ENG Cam STREAM

Turnkey Production and Bonded Cellular Streaming Solution

Electronic news gathering in a remote location or under challenging conditions is never easy. There's the effort and cost required to assemble the right package and crew for the job, not to mention getting both to the actual production site. There's also the uncertainty of not knowing what type of connectivity you'll have. CP Communications resolves these issues with its Red House Streaming (RHS) ENG Cam STREAM, a complete content acquisition solution that employs bonded cellular technology to provide connectivity from virtually any location. Lightweight and simple to use, 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.



Solution Highlights

- 1-2 broadcast-quality video streams
- Up to 1080p resolution and professional-quality audio
- Stream directly to YouTube, Facebook or any URL
- Connectivity via 4G/3G, Wi-Fi or Ethernet
- Ships in a single flight case
- Choice of SIM cards and data plan

Bonded cellular technology works by combining, or bonding, multiple cellular modems and aggregating their bandwidth to attain transmission speeds up to 15 MB/s. Forward error correction (FEC) and Automatic Repeat ReQuest (ARQ) are employed to correct packet loss and help assure that your signal reaches its intended target.

Part of CP Communications' family of RHS STREAM packages, the turnkey 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 provides two channels of broadcast-quality video at resolutions to 1080p with up to eight embedded audio channels. The affordable, plug-and-play solution eliminates the need to assemble video and audio systems across multiple vendors and service providers, and allows for rapid deployment in the field.

ENG Cam STREAM 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. It supports a variety of SD and HD codecs, including HD XAVC Intra and XAVC Long GOP at 1080 59.94p/50p, and MPEG HD 422 50 in MXF, widely accepted by broadcasters worldwide.

The MVP Agile AirLink is a wearable, ruggedized encoder and transmitter. The thin, lightweight unit bonds eight 4G/3G modems for superior live streaming direct to YouTube, Facebook, a playout server in your control room, or any URL. HEVC/H.265

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compression provides bandwidth consumption up to 50% lower than AVC/H.264 — with no loss of video quality — saving money on data cards. It is also possible to add Wi-Fi and Ethernet connections to AirLink to maximize upload capacity.

Like most wireless mobile systems, ENG Cam STREAM can serve as a hotspot for internet access. Agile AirLink uses the bonded bandwidth of its eight modems to provide lightning-fast upload speeds over Wi-Fi. Both the hotspot and data bonding functionality work in parallel with the transmission of video; however, video is always prioritized so there are no interruptions due to unexpected data transmissions.

Bonded cellular production requires the use of SIM cards and a mobile data plan. Unique to ENG Cam STREAM is that users can employ their SIM and 4G or 3G data plan of choice.

Additional components of ENG Cam STREAM include an Elvid on-camera monitor, assorted Sennheiser microphones, an audio boom pole, XLR cable, battery kit, camera-mounted LED light and stereo headphones. All elements fit in a cellular backpack to enable complete mobility.

The affordable ENG Cam STREAM package is available for sale or rent. It ships in a single flight case and sets up easily with one operator. The solution assures high-quality video and audio acquisition and streaming for any indoor or outdoor application, including news gathering, sporting events, municipal celebrations and political rallies.

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.



Mobile Viewpoint Agile AirLink encoder



Audio boom pole with Sennheiser ME67 microphone



Mobile Viewpoint cellular backpack

Package Components

- Sony PKW-X400 XDCAM camcorder with Canon 18x zoom lens
- Mobile Viewpoint Agile AirLink H.265/H.264 encoder
- Battery kit
- Camera-mounted LED light kit
- Elvid on-camera field monitor
- Tripod
- Sennheiser ME67 shotgun microphone
- Sennheiser MD46 ENG handheld microphone
- Audio boom pole
- 25' XLR cable
- Stereo headphones
- MVP cellular backpack
- Antenna with tripod
- Optional ENG RF kit with handheld and lavalier microphones (\$150/day)
- Optional Sony 64GB or 128GB SxS memory card (available for purchase only)

PACKAGE PRICE: \$2,500/day plus shipping



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