



Emergency Production Uses Wirecast Pro to Produce and Stream Live, Broadcast-Quality Video Conferences and Special Events

In the Covid-19 era, full-service A/V company Emergency Production shifts its focus from staged events to online video conferences produced and streamed with Wirecast Pro from Telestream

“Preserving the excitement of a spectacular stage event within the online-only environment requires a completely new workflow. Wirecast Pro is packed with professional features and capabilities that enable a tight, dynamic presentation consisting of exceptional video, audio, and graphics. Whenever the show must go on, Wirecast Pro has proven to be capable and reliable from start to finish.”

- *Chris Hubbard, Founder and Owner of Emergency Production, LLC, in Cranston, R.I*

As a company specializing in staging large-scale, AV-driven special events for corporations, conferences, trade shows, concerts, and high-level training, Emergency Production, LLC (EPAV) was hard hit by the Coronavirus pandemic. In early March 2020, the many video-rich stage events that EPAV was contracted to produce had either been cancelled or postponed amid concerns that having large indoor gatherings—in venues like ballrooms, convention centers, and arenas—risked spreading the virus.

While this unfortunate turn of events might have sidelined any other business, EPAV demonstrated resilience, flexibility, and resourcefulness by successfully adapting to these challenging times. In fact, this Cranston, RI-based full-service A/V company has developed tenacity and a real knack for problem-solving over their many years spent producing shows that must go on no matter what.

The key to EPAV's reinvention is Wirecast Pro from Telestream. While the company has long used this streaming production software for occasional encoding and streaming, today Wirecast is the reason they can reposition their services and keep their business moving forward during the pandemic.

In lieu of staged events, EPAV now produces and delivers engaging, broadcast-quality web video conferences, panel discussions, and other large-scale presentations on behalf of high-profile clients. Wirecast Pro is used for the following kinds of production tasks:

- Bringing live video of presenters at remote locations into the program
- Switching multiple, remote cameras
- Mixing digital audio
- Rolling program opens, b-roll videos, and other preproduced video
- Adding lower third supers, full-screen graphics, and fly-in title keys
- Bringing in logos and other branding elements as well as speakers' slides
- Creating split-screens, picture-in-picture boxes and other screen layouts

THE CHALLENGE

In pivoting from major venues to online presentations, the biggest technical and logistical challenges stem from the need to produce a fairly complex, multilayered video program remotely, while directing on-camera sources at multiple locations.

Prior to the health and travel restrictions posed by Covid-19, EPAV was able to deploy highly trained video crews and stagehands to work at the arena, stadium, ballroom, or other venue where the event was taking place. When they were on-site, they could manage all aspects of the event production including:

- Wheeling in road cases of select broadcast video equipment
- Setting up and running multiple cameras
- Switching cameras for video displays
- Micing-up presenters and checking their audio levels
- Prepping and queuing presenters waiting in the green room
- Playing out slides and other video collateral on behalf of speakers and panelists
- Controlling the quality of the staging, backdrops, lighting, and house sound

However, with this new “virtual” web production model, it's far more difficult to ensure quality control since it's not possible to visit each presenter's remote location and doublecheck that their video production setup is good to go. And given the logistical complexity of managing a broadcast-quality video conference involving multiple sites and sources, the streaming production platform itself needs to be ready and able to deliver a rock-solid, cohesive show.



Wirecast Pro

THE SOLUTION

With its robust streaming capabilities, integrated production feature set, and compelling price/performance, Wirecast Pro is proving to be the ideal solution for Emergency Production. While EPAV has used Wirecast for over a decade, until now it had only been used occasionally, whenever a particular customer wanted to distribute a live video stream of an event that would be accessible by those who couldn't attend in person.

EPAV owns two licenses of Wirecast, which is a cross-platform solution; however, they choose to run both licenses on Apple Mac Pro systems.

During production, Wirecast Pro allows intricate video shows to be built up in layers, and even sub-layers, filled with a mix of video, audio, graphics, text, music, video clips, and more. And high-end tools integrated within Wirecast software—such as digital audio mixing/monitoring and the NewBlue Titler Live Complete for designing rich, animated title designs—further enrich the look and production value of the online video presentations.

“Silence or black during any live video event, even for just a few seconds, can feel like an eternity to producers and viewers alike. When we first got Wirecast, our technicians put it to a stress test to see how well it would do. They ran videos of different resolutions and frame rates at it, pushed to see how many destinations it could stream to, tried recording to and from the same hard drive, used insufficient bandwidth... anything to make it fail. It passed, and that assured us it could handle our new live event production challenge.”

– Chris Hubbard, Founder/Owner of Emergency Production A/V, in Cranston, R.I.

EPAV's events typically feature subject matter experts, corporate executives, and other noteworthy people with something important to convey to an invited audience. While the structure of the streamed event is hosted and script-driven, the speakers come on to share their expertise about trends, technological advances, marketing plans, and other interesting topics. They underscore their talks by showing PowerPoint slides or sharing their computer screens.

Typically, these presenters take the stage one after another; but at other times, they may appear together as panelists. According to Chris Hubbard, his company produces online conferences where well-crafted, broadcast-quality video programs are pushed out one way to viewers; NOT to be confused with the interactive group meetings that are increasingly popular on platforms like Zoom or Teams.

When EPAV video crews were able to work onsite at big events, they could stage-manage the featured guests and presenters in the following ways:

- Attach wireless microphones to their clothing
- Check their audio levels
- Give them last minute stage directions
- Make sure the graphics operator backstage had their slides in good order
- Cue presenters when it's their turn to take the stage

Since there is no green room in the remote production world, a conferencing management system built into Wirecast, called Rendezvous, fills this need. It allows people in remote locations to click on an email or text link and have their webcam or video camera instantly become a video production source available to Wirecast.

“Rendezvous serves as the ‘backstage area’ where we line up our speakers or talent coming to us from their homes, offices, or wherever they may be. While they wait in one of our seven Rendezvous on-screen windows, we QC their video quality, audio levels, and other production elements they have at their site. Rendezvous is a big reason why we chose Wirecast Pro, and it’s since proven to be essential to our remote, multi-speaker presentation workflow.”

– Chris Hubbard, Founder and Owner of
Emergency Production, LLC, in Cranston, R.I.

THE WORKFLOW

The biggest impact of Covid-19 on EPAV's workflow is the need for social distancing to prevent spread of the disease. Not only are presenters in their own respective homes or offices worldwide, the EPAV crew must also keep a safe distance from each other at their Cranston, RI offices that serve as the production control facility.

Chris Hubbard serves as the technical director from an ad-hoc video production control room set-up in a conference room that is equipped with the following gear:

- A large display showing the entire Wirecast production environment, including program switching, keying, lower thirds, music
- A smaller display comprised of the seven Rendezvous windows
- A third display for digital audio mixing as well as creating New Blue Titler CG text
- A Midas M-Series digital audio mixing console that connects via USB to the Wirecast laptop. While Wirecast features 16-channel mixing and mix-minus capabilities, Midas Auto-Mix is used to automatically manage volume levels whenever multiple speakers are conversing, such as during panel or group discussions
- Several Fostex near-field audio monitors
- Three additional MacBook Pro's devoted to running full-screen and looping slideshows, sponsor logos, and more
- Video capture cards, converter cards, and other peripherals

In a nearby office, EPAV's Senior Project Manager Ross Davidson serves as the graphics operator, using his computer and monitor to contribute to the production, while following production cues from Hubbard. Jesse Bastos, EPAV's Head Audio Engineer, also has a workspace in Cranston for managing and QC'ing production audio. While Hubbard, Davidson, and Bastos constitute the production control crew, there's also a “show caller” who calls in via Rendezvous from his own remote location. While his Rendezvous video is never taken live, the show caller can view all the presenters and stage manage them within this workflow.

As a Wirecast switcher function, one or more Rendezvous sources can be brought into one of show's five video layers, which can be further broken out into sub-layers. While Rendezvous callers wait to “go on” in their respective Rendezvous video windows, they must remain silent or mute their microphones so they don't distract the live speaker; and then remember to turn their audio back on when it's their turn to speak live.

In an effort to ensure a consistent, quality-controlled workflow, Hubbard's team performs technical rehearsals with each of the presenters a few days prior to the web event. These rehearsals give the presenters a chance to get comfortable with Rendezvous, practice switching between their camera view and shared screen, mute and unmute their microphones, and run-through their talk with their slides. It's also an opportunity for EPAV to assess the quality and dependability of each presenter's equipment. If there's any concern about their set-up, EPAV can rush them "care packages" with the following kinds of gear to use instead:

- Panel lights that can stand beside the desk or table
- Small LED lights that can sit on the tabletop
- A black velour fabric that can hang behind the chair to serve as a neutral background
- A broadcast-grade laptop
- HD webcam or video cameras/tripods
- USB microphone

“When we worked onsite, we could bring in trucks full of road cases and fly packs of equipment along with video crews, stagehands, mobile units, and other vendors. But obviously, we can’t work that way right now. When you move to the online streaming environment, the profit margin is often lower than is customary for live events. But Wirecast offers us robust performance at an affordable price point that makes it possible and cost-effective for us to keep our business going.”

– Chris Hubbard, Founder and Owner of Emergency Production, LLC, in Cranston, R.I

THE RESULTS

“We do a lot of things well here but sitting still is not one of them. If there’s a way to keep contributing our video production and event management expertise, then we’re happy to be of service. With its Rendezvous conferencing and wide array of production tools, Wirecast Pro is a great solution that lets us produce and stream video conferences that convey our clients’ messaging in impactful, visually dynamic, graphics-rich online presentations.”

– Chris Hubbard, Founder and Owner of Emergency Production, LLC, in Cranston, R.I

For More Information:

Learn more about Emergency Production's A/V services here: <https://www.ep-av.com/>

Check-out Telestream Wirecast Pro Software here: <https://www.telestream.net/wirecast/>

