LONG-RANGE WIRELESS HDMI SYSTEM DISTRIBUTES HIGH-DEFINITION VIDEO TO MULTIPLE DISPLAYS FOR FAIRFIELD UNITED METHODIST AND CHARITY EVENT

OVERVIEW

For more than 45 years, Entertainment Systems Corporation has been a provider of full-service lighting, sound and audio visual services. Located in Kilmarnock, Virginia, the company specializes in providing high-performance lighting and A/V solutions for charitable events and church facilities in Virginia's Northern Neck and Middle Peninsula.

THE NEED

With 100 churches located in the 20-mile area surrounding Entertainment Systems Corporation, many of the company's clients are church facilities. The company's president, Bill Cronheim, says that many of their projects involve the streaming of A/V signals across long distances or to different rooms throughout the building. "Our projects can range from something as simple as installing and running video to a flat screen monitor in another room, to more complex projects such as streaming live video from video cameras in the sanctuary to projections in multiple locations throughout the building."

Cronheim explained that running cables to carry A/V signals over long distances or to different rooms can be difficult, or even impossible, due to the building construction or the layout of the facilities. "The first job we had involved a church that needed a projector installed, but had no access into the ceiling," Cronheim explained. "There was power available, but no way to run a signal cable of any sort." He described another project in which the pulpit was in the center of the sanctuary, surrounded by the parishioners and the choir. "There was no crawl space, no attic, and the floor was poured slab. There was no way to run a wire from the center of the room, through the walls, and into the beams."

Cronheim realized that he needed to find a wireless A/V solution.

IOGEAR SOLUTIONS

According to Cronheim, he turned to the Internet to find a suitable solution to his A/V challenges. "There were several product lines available, but after researching and taking my time to understand the various offerings available and the capabilities of the solutions from various vendors, IOGEAR seemed to offer the best solutions," stated Cronheim.

Cronheim's first experience with IOGEAR was the deployment of the Wireless HDMI Transmitter and Receiver Kit (GWHD11) to wirelessly transmit the A/V signal to a projector mounted to the ceiling of the sanctuary. At Fairfield United Methodist, he deployed the Long Range Wireless 5x2 HDMI Matrix PRO with 2 Additional Receivers (GWHDMS52MBK3) to wirelessly stream video to two displays in the large sanctuary. "Both of those systems worked very well," Cronheim said.

One of the company's largest projects was at a large charitable event held at a country club. Live video needed to be broadcast from a large tent adjacent to the club to various rooms throughout the country club. Cronheim said that he used the IOGEAR HDMI Extender Kit (GVE330) to transmit the video from the rear of the tent over a distance of 160 feet to get the HDMI signal into the country club. "From there, we used the four-receiver system (GWHDMS52MBK4) and ran the live video feeds to a total of five different flat screens in different rooms in the country club."

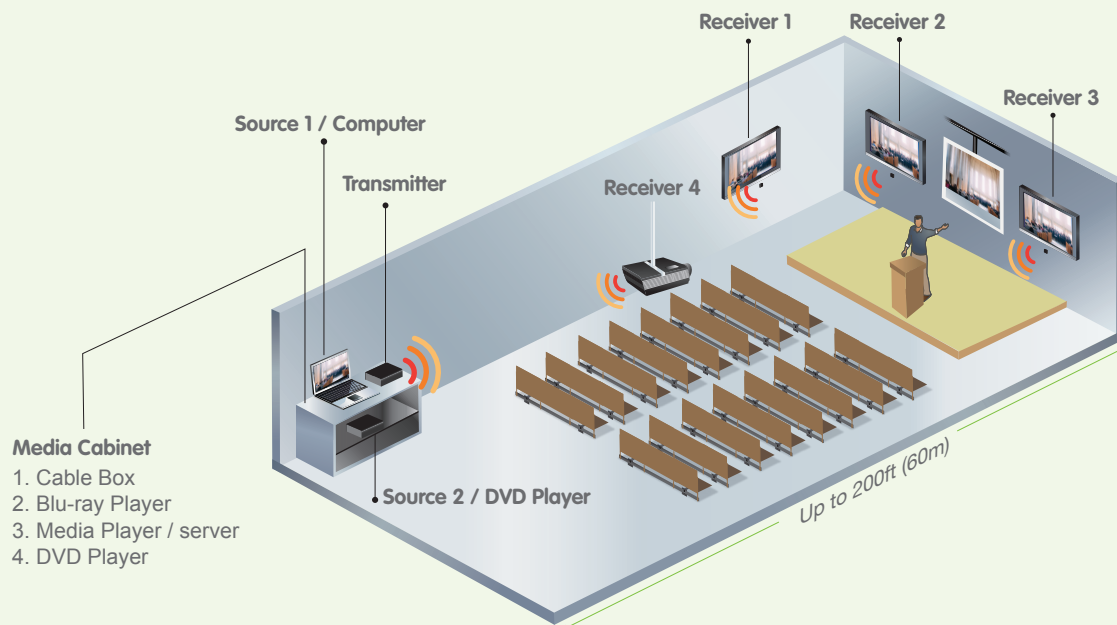https://www.iogear.com/product/GWHD11

RESULTS & BENEFITS

Entertainment Systems Corporation has been using IOGEAR's A/V solutions for over a year. According to Cronheim, reliability and ease-of-deployment of the products is paramount. "We haven't had any problems with the equipment," he stated. "I'm not a huge computer person, so I need a solution that is as close to plug and play as possible – and IOGEAR delivers that solution."

Cronheim explained that IOGEAR's wireless A/V solutions provide new revenue opportunities for his company. "The IOGEAR products open a lot of different job opportunities for us and makes them easier to complete," he said. "Now we don't have to snake cable for miles, or crawl through cramped crawl spaces to run a wire. I've done that – crawling 100 to 150 feet through mud where my shoulders are rubbing against floor joists because there's not much room. If you can do it wirelessly or with powerline, it makes life pretty nice!"

Receiver 1   Receiver 2

Receiver 3

Source 1 / Computer

Transmitter   Receiver 4

Up to 200ft (60m)

Media Cabinet
1. Cable Box
2. Blu-ray Player
3. Media Player / server
4. DVD Player

Source 2 / DVD Player

Video Input	4 x HDMI, 1 x Component
Video Output	1 x HDMI Loop Through (Transmitter), 1 x HDMI (Receiver)
Power	1 x Power Jack (Transmitter and Receiver)
Video Resolution	480p, 576p, 720p, 1080i, 1080p (24/30/60fps) and 3D Support
Video Streaming	<1ms Latency
Audio Output	Digital 6Mbps AC3 and DTS, Analog 48KHz and 24-bit per sample

https://www.iogear.com/product/GWHDMS52MBK4