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**RF Venue essential accessories address wireless dropout challenges at Hartford’s Cathedral of St. Joseph**

— Integrator DNR Laboratories was able to replace over 30 elements of a pre-existing wireless system with just eight [RF Venue®](https://hubs.li/Q011VLWW0) components – two [Diversity Fin® Antennas](https://hubs.li/Q01R9TFh0), two [Band-Pass Filters](https://hubs.li/Q01R9TJs0), two active [In-Line Amplifiers](https://hubs.li/Q01R9Tpw0), a [4ZONE™](https://hubs.li/Q01R9VpL0) antenna combiner, and a [DISTRO4™](https://hubs.li/Q01R9Vxm0) antenna distribution system – to create a flawless RF system for the 1,750-seat cathedral —

*Walpole, MA, USA*, *May 30, 2023* — The wireless microphone system at Cathedral of St. Joseph, the seat of the Archdiocese of Hartford in Hartford, CT, was continuously plagued by dropouts and RF interference, detracting from solemnity that the structure and its mission called for. “The Archbishop himself would comment on the fact that he found it difficult if not impossible to get through a sermon without a dropout or interference noise,” observed Don Gamsjager, founder and CEO of [DNR Labs](https://www.dnrlabs.com/), who were called in to rectify the problem as part of a larger upgrade of the cathedral’s sound system and FOH console last year. “It was a major problem. Fortunately, we had RF Venue.”

Gamsjager says the existing RF distribution system, installed about 20 years ago, was woefully inadequate and overly complicated, with over 30 components, such as the eight paddle antennas installed throughout the venue. “The church is over 400 feet from end to end, and they also hold part of services just outside the main entrance, so there was a lot of space to cover,” he says, Built in 1962 in the international interpretation of the classic cruciform Gothic style, the cathedral is the largest between those in New York and Boston, and seats over 1,750 worshippers in its large expanse of spectacular stained-glass windows. Gamsjager conferred with RF Venue Sales Director Adam Brass and the RF Venue engineering team and came up with a far simpler and more elegant RF solution.

DNR Labs installed two Diversity Fin® Antennas, two passive inline Band-Pass Filters, two active In-Line Amplifiers, a 4ZONE antenna combiner, and a DISTRO4 antenna distribution system, all from RF Venue’s comprehensive line of essential wireless audio accessories that work with any brand and any model of wireless microphone and IEM system. The two antennas are able to completely cover the church’s interior and part of its exterior worship spaces (one Diversity Fin antenna was installed outdoors in a weatherproof enclosure) completely without dropouts. In the process, says Gamsjager, they were also able to eliminate old unneeded long coaxial cable runs, with distance defied for the new antenna runs by the active In-Line Amplifiers, designed to compensate for RF antenna signal loss on lengthy coax runs. The band-pass filters, which are tuned to 470-530 MHz, Gamsjager calls lifesavers in a dense urban RF environment like Hartford. The signals captured by the patented cross-polarized design of two Diversity Fin Antennas, which offer true diversity reception in a single package, are combined in the 4ZONE then distributed to the wireless microphone antenna inputs by the DISTRO4, which also provides power to the receivers.

Along with the Sennheiser EW-DX wireless microphone system that DNR Labs also installed as part of the project, the church is now completely dropout-free. “We replaced an enormous amount of equipment with a truly minimal amount of gear and got perfect performance,” he says. “The cathedral’s A1, Dave Raymond, says it’s the first time the church has ever experienced a completely dropout-free service. They’re able to take the wireless mics to any location in the church and have a perfect experience with it.” But perhaps the highest accolade came from Archbishop Leonard Paul Blair himself, who turned to Gamsjager after his first sermon after the installation and said, “I now have complete confidence in this microphone.” “You can’t ask for higher praise than that,” Gamsjager concludes.

Links: [rfvenue.com](https://hubs.li/Q011VLWW0)

[Diversity Fin® Antenna](https://hubs.li/Q01R9TFh0)

[Band-Pass Filters](https://hubs.li/Q01R9TJs0)

[In-Line Amplifiers](https://hubs.li/Q01R9Tpw0)

[4ZONE™](https://hubs.li/Q01R9VpL0) antenna combiner

[DISTRO4™](https://hubs.li/Q01R9Vxm0) antenna distribution system

Photo file 1: RF-Venue\_Diversity-Fin\_Cathedral-of-St-Joseph.JPG

Photo caption 1: A single interior RF Venue Diversity Fin Antenna looks down the length of the spacious Cathedral of St. Joseph, providing true diversity reception and full room coverage in a single package

Photo file 2: RF-Venue\_Diversity-Fin\_Cathedral-of-St-Joseph2.JPG

Photo caption 2: Sitting beneath a stained glass window in the Cathedral of St. Joseph, a Diversity Fin Antenna from RF Venue employs a patented design to capture signals in both the horizontal and vertical planes in a single unit

Photo file 3: RF-Venue\_DISTRO4\_Cathedral-of-St-Joseph.JPG

Photo caption 3: The final stage in the now dropout-free antenna and distribution chain at the Cathedral of St. Joseph, composed of eight of RF Venue’s essential accessories for wireless audio which replaced 30 components in the ineffective previous system, is the DISTRO4 antenna distribution system that provides a buffered RF input signal to each of the Cathedral’s wireless microphone receivers

**About RF Venue®**

[RF Venue, Inc.](https://hubs.li/Q011VLWW0) is an innovative and fast-growing developer and manufacturer of patented antenna and RF communications products headquartered near Boston, Massachusetts, USA. The company’s mission is to help anyone who needs to speak, listen, or perform – indoors or outside – communicate reliably without the distraction of signal dropouts or interference. The company provides high-quality, affordable line of essential accessories for wireless audio which improve the performance of any brand and any model of wireless microphone and in-ear monitor (IEM) systems. Markets include houses of worship, schools, business venues and performance spaces worldwide. RF Venue is known for its highly successful CP Beam™, RF Spotlight™, Diversity Omni™, Diversity Architectural™ and Diversity Fin® antennas, along with other RF products. Visit [rfvenue.com](https://hubs.li/Q011VLWW0) to learn more.