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**New England First Robotics chooses RF Venue’s 4 Channel Wireless Microphone Upgrade Pack for regional high school competitions**

— High school students compete in First Robotics’ sophisticated robotics tournaments, but wireless microphone dropouts during events were marring the excitement.[RF Venue's 4 Channel Wireless Microphone Upgrade Pack](https://hubs.li/Q01K_9f70), combining a DISTRO4™ antenna distribution system, a Diversity Fin® Antenna and all needed cabling, solved that problem completely —

*Walpole, MA, USA*, *April 18, 2023* — Branded as “The Ultimate Sport for the Mind™,” [First Robotics](https://www.firstinspires.org/robotics/frc)’ nationally organized high school robotics competitions are literally creating the next generation of robotics specialists. Under strict rules and limited time and resources, teams of high school students are challenged to build industrial-sized robots to play a difficult field game in alliance with other teams, such as the recent district event in Reading, MA, which took place mid-March. It’s a challenging but rewarding mission, and it’s one that NE First Robotics, the New England regional chapter of the non-profit organization, excels at. However, the chapter had been experiencing problems with its wireless microphone systems during competitions, particularly ones that took place in larger cities.

“When we were competing up in Maine, for instance, no problems at all – the frequency spectrum was wide open and clear,” says [Jx2 Productions](http://jx2productions.com/)’ Justin Holmes, who provides AV equipment engineering and support as well as serving in NE First Robotics district leadership. “But when we went to field competitions in places like Boston and Hartford, it became much harder to find available frequencies for the wireless mics. Very often we’d also find ourselves competing with the schools’ own wireless systems for frequency space, and a lot would also depend on the orientation of the building and how much RF obstruction there was. What would happen is there would be 20 judges on the floor during a closing ceremony, and the emcee’s microphone would be cutting in and out while he was reading the winners’ names.”

That all changed when RF Venue, a global leader in antenna and RF wireless audio essential accessories, sourced NE First Robotics its 4 Channel Wireless Microphone Upgrade Pack, which combines a DISTRO4 antenna distribution system, a Diversity Finn Antenna, and all needed cabling to connect and power four wireless microphone receivers of any brand or model. The package, easy to set up and operate, solved those issues for NE First Robotics from the very first time they deployed it. The high-gain, directional Diversity Fin reduces microphone dropouts and interference by using one element that captures vertically polarized waves, and another that captures horizontally polarized waves. The result is an antenna that dramatically improves diversity system performance regardless of how the wireless transmitter is positioned. The DISTRO4 distribution system splits the signals from the Diversity Fin and buffers its four diversity outputs for delivery to multiple co-located receivers. Also included in the bundle are eight coaxial RF cables and four DC power jumpers for interconnection.

“Since we began using the RF Venue package a few months ago, the dropouts have completely stopped,” says Holmes. “The audio quality is excellent and consistent. The D-Fin antenna filters out the frequencies we don’t need and lets us have a clear path on the ones we do. RF Venue made a huge difference and solved the problem.”

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

Photo file 1: NEFIRST\_RFVenue\_DFinHoriz.jpg

Photo caption 1: NE First Robotics’ sophisticated robotics tournaments rely on RF Venue's 4 Channel Wireless Microphone Upgrade Pack, combining a DISTRO4 antenna distribution system, a Diversity Fin Antenna and all needed cabling to eliminate wireless microphone dropouts

Photo file 2: NEFIRST\_RFVenue\_DFin.jpg

Photo caption 2: RF Venue’s Diversity Fin antenna provides true diversity reception in a single package.

Photo file 3: NEFIRST\_RFVenueDISTRO4rack.jpg

Photo caption 3: RF Venue’s DISTRO4 antenna distribution system provides up to four wireless microphone receivers with A/B antenna inputs and power.

Photo file 4: NEFIRST\_RFVenue\_DFinVertical.jpg

Photo caption 4: NE First Robotics’ sophisticated robotics tournaments rely on RF Venue's 4 Channel Wireless Microphone Upgrade Pack, combining a DISTRO4 antenna distribution system, a Diversity Fin Antenna and all needed cabling to eliminate wireless microphone dropouts

**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 aftermarket antenna and accessory solutions to improve the performance of any manufacturer’s 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.