

Q-DiversityPLUS™ Frequency Diversity Technology

Q-DiversityPLUS™: The Basics

What does it do?

Allows XDR95 to provide reliable performance under adverse RF conditions.

What is it?

A dual-frequency broadcast system that maximizes data isolation from undesired interference.

Do other types of technology use dual-frequency broadcast?

Multiple frequency broadcasts are not unique. OFDM would be an example of splitting up data over multiple frequencies. However, X2's proprietary Q-DiversityPLUS™ is unique for real-time audio applications.

Why do we need it?

Wireless systems are subject to increased interference due to known and unknown sources of RF interference, including DTV, cell phones, blackberrys and networking devices. XDR95 was designed to address the needs of professional wireless users requiring consistent reliable performance even in adverse conditions without any loss to sound quality.

How does it work?

In the transmitter, a proprietary digital data stream that includes a digital representation of the audio signal is modulated on two separate RF carrier frequencies.

The receiver contains a quadruplex of separate receiver sections that work simultaneously to receive the two RF signals. Two receiver sections are directly connected to two internal antennae, while two others are fed RF signals via two chassis mounted BNC connectors. These sections work simultaneously to receive the two RF signals that contain the transmitted digital data.

Why is it better?

Q-DiversityPLUS™ allows the XDR95 to vastly exceed other wireless systems in terms of freedom from negative effects of increased interference and longevity of performance in the field.

