

NEW! XDR95 Series

24-bit Digital UHF Wireless for Live & Studio Performance



The XDR95 is a 24-bit digital wireless system purpose-built for live performances - any time, any place and on any stage. Made in the USA, the system is 2009 Compliant and features X2's Tru-Digital™ companderless digital format for the sound and feel of a direct wire connection.

quick features

Highest Audio Quality

- 24-bit digital conversion
- No compressors
- 118 dB dynamic range
- 10Hz – 20 kHz frequency response
- Balanced XLR & unbalanced 1/4" TRS outputs

Advanced RF technology

- Q-DiversityPLUS™ (anti-jam) technology
- 2009 Compliant means no DTV or white-space issues or FCC licensing concerns
- Proprietary digital data stream for immunity from outside interference
- 300' operating range (line of sight)
- (2) Detachable 1/2 wave antenna included

Professional rackmounting options

- 1RU chassis with mounting hardware
- Front-mount antenna kit included

Simple and intuitive operation

- 5 user selectable channels of operation
- Up and Down buttons for channel navigation
- Plug-n-play simplicity eliminates knobs and menus
- Multi-color LED indicates performance parameters (channel, RF, audio level, transmitter battery life, receiver diversity status)

system configurations

XDR95 Instrument System

- features both an instrument input and microphone input on the transmitter w/ 9V DC bias power

XDR952 Omni Lavalier Microphone System

- Includes AT830-X, a great choice for applications where two or more microphones will be used in relatively close proximity to avoid phase-canceling drops in volume.

XDR953 Headworn Microphone System

- Includes ATM75-X, a great choice for vocal and speaking application where maximum isolation and reduced feedback is desired.

XDR954 Cardioid Lavalier Microphone System

- Includes AT831-X, a great lav mic choice that will greatly reduce feedback problems.

XDR955 Handheld Microphone System

- Every possible detail of your voice is captured at the microphone and delivered to your audience without noise, compression or any degradation to your sound. Capsules choice: Audix OM3, OM5

XDR957 Clip-on Instrument Microphone System

- The included AT-Pro35-X provides maximum isolation while capturing the full energy of your brass or woodwind instrument.



Overview

The new XDR95 is a professionally equipped rack-mount 24-bit digital UHF wireless system with several variants designed specifically for vocal and instrument applications. The system combines outstanding sonic performance and high operational reliability with great convenience and ease-of-use for the user.

The Q-DiversityPLUS™ technology (anti-jam), extended operating range and versatile connection options make this a very flexible tool for live musical performance and recording, and a wide variety of other real-time audio applications.

The system features a number of convenient functions on the control surface with no need to scroll through multi-page menus to select or modify system parameters. And for additional flexibility, system components can operate in a special 'backward compatible' mode allowing the use of mixed XD Series equipment.

The Benefits of Q-DiversityPLUS

With Q-DiversityPLUS, your performance won't suffer should an undesired RF signal suddenly appear on your frequency. This is essential when considering today's wide presence of cell phones/blackberry's, pagers, text messaging devices, wireless networks and other unforeseen or unknown sources of RF energy. The result is a reliable performance in a multitude of environments.

How the System Works:

In the XDR4 (handheld) and XDT4 (bodypack) transmitters, the audio signal is digitized upon input without the use of compressors or signal 'processing', which makes it possible to achieve full frequency response (10Hz – 20 kHz) and dynamic range of 118dB with ultra-low distortion (.03% THD).

Also taking place in the transmitter is the initial stage

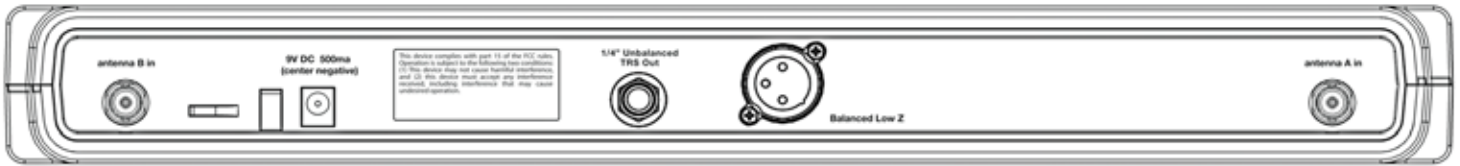
of the new Q-DiversityPLUS (anti-jam) technology. A proprietary digital data stream that includes a digital representation of the audio signal is modulated on two separate RF carrier frequencies via its' internal antenna; thus the system operates with frequency diversity.

In the new XDR4 rack-mount receiver, the final stage of the new Q-DiversityPLUS technology is employed. The unit 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, thus allowing the user a variety of options when establishing custom deployment of the system. These sections work simultaneously to receive the two RF signals that contain the transmitted digital data. The system only recognizes digital data that originates from the XDT4 transmitter thus locking out all other sources of RF interference.

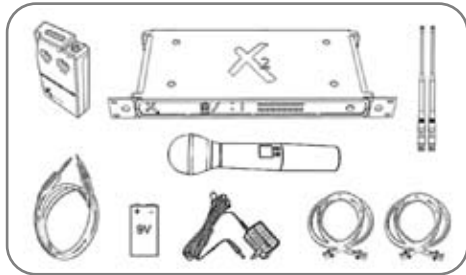
A micro-processor compiles and confirms data quality prior to sending it out for high-quality D/A conversion and connection to the users' audio system. Two detachable 1/2 wave antennae are included with the system and when connected, a 300' line-of-sight performance range is established.

How the System Connects to your Gear:

The receiver is fitted with the following output connections: balanced XLR, and un-balanced 1/4" TRS and can be utilized simultaneously. The latter is configured to provide instrument output on the tip and full-bandwidth on the ring. The XLR balanced connector provides full-bandwidth output. This assures the user an incredibly wide range of system interface configurations including amplifiers, mixers, recording devices, effects units (including pedals), tuner units, and more.



Overall System Specifications



Transmission Format:	X2 proprietary digital audio transmission
A/D -D/A Conversion:	24-bit Delta Sigma, 128 times over sampling
Frequency Response:	10 Hz - 20 kHz
Audio Dynamic Range:	>118 dB
Distortion:	0.03% THD
RF Carrier Frequency:	902 MHz to 928 MHz, FSK, dual frequency transmission
Selectable Frequencies:	Five
RF Output Power:	15mw total
Audio Output Level:	Unity gain with transmitter input
Polarity:	Positive voltage at input yields positive voltage at output
Transmission Range:	300 feet line-of-sight (may vary due to local conditions)
FCC Approval:	Part 15 approved, no user-license required
Operating Temperature Range:	-20° to +85° C (-4° to +185° F)

Transmitter Specifications

Input Impedance:	XDT4: 1.2 MΩ
Connectors:	XDT4: 1/8" TRS locking connector, ring (+), sleeve (-), tip (open)
Controls:	XDT4: Power On/Off, Channel Select XDH4: Power/Mode, Select/Enter
Display:	XDT4: Five segment LED - Power, Channel, Battery, Audio XDH4: Backlit LCD - Power, Channel, Battery, Audio, Mute, Lock
Dimensions:	XDT4: 2.4 W x .66 D x 4 H in. XDH4: 9.55 x 1.58 in.
Battery Life:	XDT4: 9V alkaline, ~6 hrs XDH4: 2x AA ~8 hrs
Weight:	XDT4: .3 lbs (with 9V battery installed)
Housing:	Polycarbonate, impact tested to 300 lbs.

XDR4 Receiver Specifications

Output:	2.12V RMS (Unbalanced: 1.8kΩ)
Connectors:	1/4" Unbalanced TRS output 1.8kΩ impedance, tip= instrument voicing, ring= full bandwidth, sleeve= ground, XLR Balanced 600Ω
LED Display:	Power On, RF, Channel, Diversity, Battery Life, Audio Level Meter
Controls:	Power On/Off, Channel UP and Down
Dimensions:	16.2 W x 7.5 D x 1.75 H in.
Power Requirements:	9V DC 500mA via included AC/DC adapter
Weight:	2.5 lbs (with rack hardware and antenna installed)
Housing:	Polycarbonate, impact tested to 300 lbs.

