

# NEW! XDR95 Series

## 24-bit Digital UHF Wireless for Live & Studio Performance



### quick features

#### Highest Audio Quality

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

#### Advanced RF technology

- Q-DiversityPLUS™ (anti-jam) technology
- Frequency-Clear™ 900 MHz means no DTV and 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)

The XDR95 is a 24-bit digital wireless system purpose-built for live musical performances - from studio to stage, clubs to arenas. Made in the USA, the system features X2's Tru-Digital™ companderless digital format for the sound and feel of a direct wire connection.



*The freedom to perform with the confidence that every nuance will be heard and felt.*

#### Overview

The new XDR95 24-bit digital UHF wireless 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 new XDT4 transmitter, the audio signal is digitized upon input without the use of companders or signal 'processing', which makes it possible to achieve full frequency response (10Hz – 20KHz) 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 receiver, the final stage of the new Q-DiversityPLUS™ (anti-jam) 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.

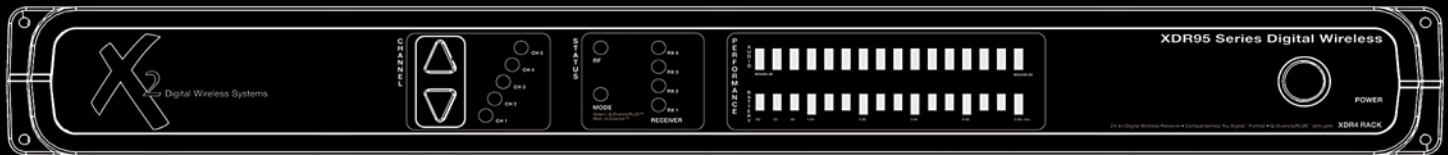
A micro-processor compiles and confirms data quality prior to sending it out for high-quality D/A conversion and connection to the users' audio system.

Two detachable 1/2 wave antennae are included with the system and when connected, a 300' line-of-sight performance range is established.

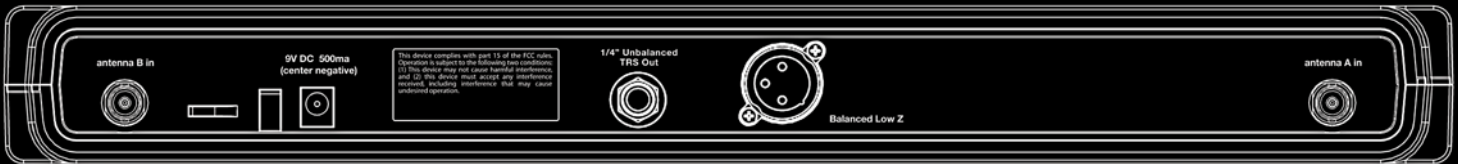
#### How the System Connects to your Gear:

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.

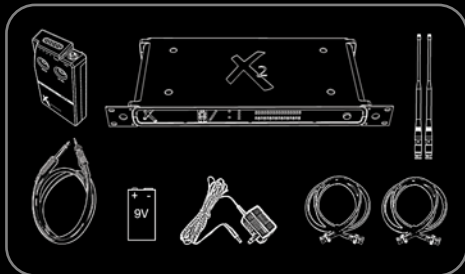
## XDR4 RACK (front panel)



## XDR4 RACK (back panel)



## Overall System Specifications



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

## XDT4 Transmitter Specifications

<b>Input Impedance:</b>	1.2 MΩ
<b>Connectors:</b>	1/8" TRS locking connector, ring (+), sleeve (-), tip (open)
<b>Controls:</b>	Power On/Off, Channel Select
<b>LED Display:</b>	Five segment - Power On, Channel, Battery Life, Audio Level
<b>Dimensions:</b>	2.4 W x .66 D x 4 H
<b>Battery Life:</b>	9V alkaline, switching power supply, two modes: Q-DiversityPLUS™ mode: ~6 hrs in (dual frequency) Q-Diversity™ mode: ~7 hrs in standard (single frequency)
<b>Weight:</b>	.3 lbs (with 9V battery installed)
<b>Housing:</b>	Polycarbonate, impact tested to 300 lbs.

## XDR4 Receiver Specifications

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

Frequency Response dBr A

