



DXA-XLR-TX

Dante® XLR Encoder

USER MANUAL

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Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Keep this manual for future reference.

Important Safety Note – Surge Protection Recommended

This product contains sensitive electronic components that may be damaged by electrical spikes, surges, lightning strikes, or static discharge. To protect and extend the service life of your equipment, we strongly recommend using a surge protection device.

Warranty Registration

Activate your warranty by registering your product at:

→ www.orei.com/register

Need Technical Support? We're Here to Help.

Our experienced Technical Support Team is available to answer your questions, offer expert advice, and help troubleshoot any issues to keep your project on track—on time and on budget.

Live Support Hours (US/Canada/Mexico):

🕒 Monday–Friday | 9:00 a.m. – 5:00 p.m. Central Time

Contact Us:

✉ Email: info@orei.com

📞 Phone: 877-290-5530

💬 Chat Live: www.orei.com

Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The ToVi DXA-XLR-TX is a 2-channel XLR-to-Dante® audio encoder designed to deliver high-quality audio over standard IP networks. It converts two-channel balanced or unbalanced XLR signals into Dante® digital audio, providing reliable, low-latency performance for professional networked audio applications.

Supporting 24-bit audio at 44.1kHz, 48kHz, 88.2kHz, and 96 kHz, the encoder ensures detailed, high-resolution sound reproduction. Selectable audio delay settings of 1ms, 2ms, or 5ms enable precise system synchronization, while a 5-level input sensitivity adjustment (+24dBu, +4dBu, 0dBu, 0dBV, and -10dBV) allows seamless compatibility with a wide range of professional and consumer audio sources.

Designed for flexible installation, the unit can be powered via USB-C or PoE (Class 0 802.3af). Its compact, space-saving design and plug-and-play Dante® integration make it an ideal solution for conference rooms, broadcast setups, live sound, and other professional AV network environments.

Features

1. **XLR-to-Dante® Audio Transmission** – Converts 2-channel XLR analog audio to Dante® digital streams
2. **Professional XLR Inputs** – Supports balanced/unbalanced audio connections
3. **5-Level Sensitivity Adjustment** – +24dBu to -10dBv input range for optimal signal matching
4. **High Bitrate Audio** – Supports up to 96kHz/24-bit sampling quality
5. **Configurable Audio Delay** – 1ms, 2ms, or 5ms latency settings
6. **Dual Power Options** – USB-C or PoE (802.3af) operation
7. **Compact Design** – Space-efficient installation for professional environments
8. **Plug-and-Play** – Seamless Dante® platform compatibility

Package Contents

1.	DXA-XLR-TX	1 pcs
2.	Hook & Loop	2pcs
3.	User Manual	1 pcs

Specifications

Technical	
Input	Two-channel balanced/unbalanced XLR analog audio
Output	Dante® 2CH digital audio
Control Method	Dante® Controller
Network Bandwidth	100Mbps
Audio Latency	Configurable Dante® device latency (Supports 1, 2 or 5ms configurable using Dante® Controller)
Audio Formats	XLR IN [Analog audio input, Balanced/unbalanced 2CH, Max input level +24dBu] DANTE OUT [Digital audio output, PCM 2CH 44.1K-96KHz 16/24bit]
XLR IN Audio Parameters	
Input Impedance	20k Ohm balanced 10k Ohm unbalanced
Line Input Level (Max)	+24dBu (12.28Vrms) @balanced audio +18dBu (6.15Vrms) @unbalanced audio
Frequency Response	20Hz to 20kHz (-/+0.5dB)
Dynamic Range	>100dB@0dBu, 1 kHzA-weighted
Audio S/N Ratio	>100dB@0dBu, 1 kHzA-weighted
Audio THD+N	< 0.01% at +4dBu, 1KHz

Specifications

Audio Output Sync Delay	<10ms
Transmission Distance	328ft/100m (CAT6/6A/7)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connections	
Input	2× CH1/CH2 XLR [XLR female plug, with 30cm cable] 1× POWER [USB-C power and firmware update port, 12-pin female]
Output	1× DANTE [RJ45 connector, PoE]
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	L: 115mm / 4.53in W: 40mm / 1.57in H: 28mm / 1.10in
Weight	173g / 6.10oz
Power Supply	USB input: 5V/500mA PoE input: PoE IEEE802.3af Class 0
Power Consumption	2W (Max)

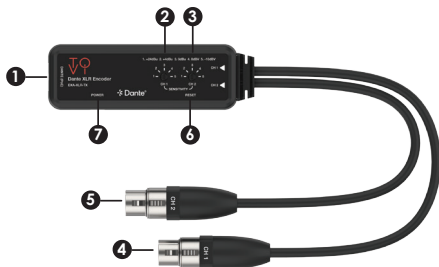
Specifications & Operation

Controls and Functions

Specifications

Operation Temperature	32°F~104°F/0°C~40°C
Storage Temperature	-4°F~140°F/-20°C~60°C
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

Operation Controls and Functions

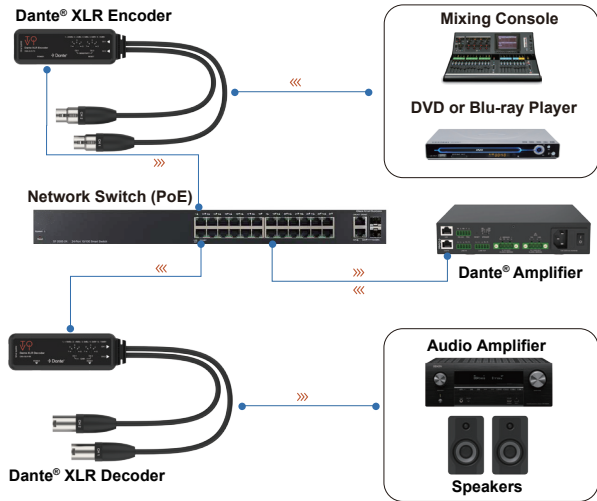


Operation Controls and Functions

No.	Name	Function Description
1.	DANTE (PoE) port	Connect to a 1G network switch for PoE and signal transmission. Green LINK LED: Remains steady when the network connection is established successfully. Yellow DATA LED: Blinks during active Dante® audio data transmission.
2.	CH 1 knob	Used to adjust the input sensitivity for analog audio channels 1 and 2.
3.	CH 2 knob	It has 5 sensitivity levels: 1. +24dBu, 2. + 4dBu, 3. 0dBu, 4. 0dBv, 5. -10dBv.
4.	CH 1 plug	Connect an audio source device with an XLR connector.
5.	CH 2 plug	
6.	RESET button	Press this button to reboot the unit.
7.	POWER port	USB-C port for connecting a 5V/500mA power supply to power the device, while also supporting firmware updates.

Note: The RESET button will only reboot the device; device reset must be performed through the Dante® Controller software.

Application Example



Trademarks

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1. Audio dropouts or unstable playback

- Ensure the audio format is set to PCM or Stereo from the audio source device settings.
- Increase Dante latency to 2 ms or 5 ms in Dante Controller
- Press the Reset button to reboot the unit or do a hard reset within Dante Controller software.

2. The device does not appear in Dante® Controller

- Confirm the device is powered (via USB-C or PoE).
- Make sure your computer and the device are on the same network/sub-net.
- Disable or configure firewalls that may block network discovery.

3. Noise or interference in audio

- Try changing the input sensitivity.
- Use a dedicated or properly managed network for Dante
- Keep audio cables away from power lines

Still have some questions?

Please feel free to contact us at: info@orei.com. OR Fill out the form on the 'Contact Us' page on the website.

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