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iTrans DX-22-US

2x Input & 2x Output
Analogue XLR to Dante® Converter

User Manual

VER 1.0
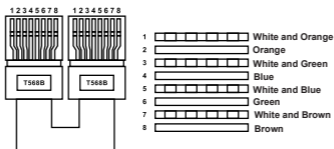
Thank you for purchasing this product

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

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Caution

The product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross connect.

1	White and Orange
2	Orange
3	White and Green
4	Blue
5	White and Blue
6	Green
7	White and Brown
8	Brown

Direct Interconnection Method

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1. Introduction

This 2x Input & 2x Output Analogue XLR to Dante® Converter is an audio transmitter based on the Dante® Ultimo 2x2 solution. It is designed as a standard 2-GANG US wall plate to convert and bridge traditional audio source/sink devices to Dante® digital network.

Analog audio input supports 5-level sensitivity adjustment. Analog audio output supports 5-level gain control.

The converter supports local 12VDC power supply and PoE function.

2. Features

☆ 2x Inputs + 2x Outputs (Dante® in and Dante® out)
☆ Balanced/unbalanced XLR analog audio
☆ MIC Phantom 48V Power and on/off via hard button
☆ Input sensitivity and output gain control to adjust for different levels of MIC/XLR
☆ Dante® audio sampling rate supports 44.1/48/88.2/96KHz@24bit
☆ Configurable Dante® device latency (supports 1, 2 or 5ms configurable using Dante® Controller)
☆ Supports AES67 RTP audio transport
☆ PoE & local power options
☆ Standard 2-Gang US Decora design

3. Package Contents

① 1x 2x Input & 2x Output Analogue XLR to Dante® Converter
② 1x 2pin-3.5mm Phoenix Connector (male)
③ 1x User Manual

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4. Specifications

Technical	
Network Bandwidth	100M
Control Method	Dante® Controller
Audio Latency	Configurable Dante® device latency (Supports 1, 2 or 5ms configurable using Dante® Controller)
Audio Formats	DANTE [Digital audio in/out, PCM 2CH 44.1K-96KHz 16/24Bit] LINE In [Analog audio, Balanced/unbalanced connection, Max input level 24dBu] MIC In [Analog audio, Balanced/unbalanced connection, Max input level 50mVRMS] LINE Out [Analog audio, Balanced/unbalanced connection, Max output level 18dBu]

Audio Parameters		
	Output Impedance	300 Ohm
	Output Level (Maximum)	18dBu (Maximum)
	Frequency Response	20Hz to 20kHz (-/+0.5dB)
	Dynamic Range	> 90dB@0dBu, 1kHzA-weighted
	Audio S/N Ratio	> 90dB@0dBu, 1kHzA-weighted
	Audio THD+N	< 0.015% at +4dBu, 1KHz

Transmission Distance	328ft/100m (CAT6/6A/7)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

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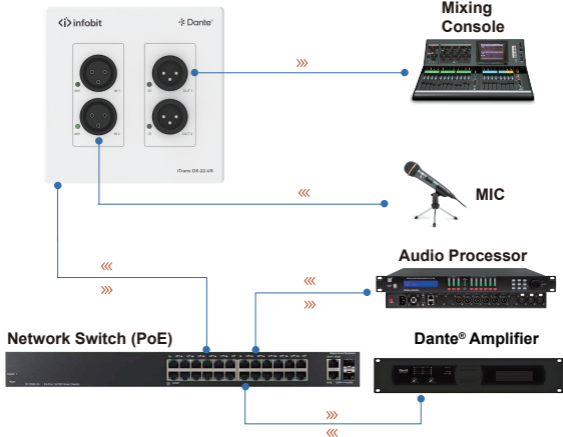| Connection	

Front Panel	1x Power LED [Green Color]
	1x ID LED [Green Color]
	2x MIC Phantom Power 48V LED [Green Color]
	2x MIC Phantom Power 48V button with backlit LED [Green Color]
	2x Audio In [3-pin XLR, Female]
	  [LINE audio, Balanced/unbalanced connection, Max input level 24dBu]
	  [MIC audio, Balanced/unbalanced connection, Max input level 50mVRMS, 48V phantom power]
	2x Audio Out [3-pin XLR, Male, Analog audio, Balanced/unbalanced connection, Max output level 18dBu]

Rear Panel	1x DANTE [RJ45 connector, Digital audio in/out, PCM 2CH 44.1K-96KHz 16/24Bit] 1x DC/12V [2pin-3.5mm phoenix connector] [12VDC/500mA]
Mechanical	
Housing	Aluminum panel + Iron chassis
Color	White panel + Silver chassis
Dimensions	Wall plate: 95mm [W] x 105mm [H] x 41.2mm [D] Faceplate: 115mm [W] x 115mm [H] x 6mm [D]
Weight	Without faceplate: 359g With faceplate: 452g
Power Supply	1. PoE/PD (Class 1 IEEE 802.3af) 2. DC 12V (for the case that Switch does not support PoE)
Power Consumption	3.6W (Max)
Operating 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)

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5. Operation Controls and Functions
Front Panel
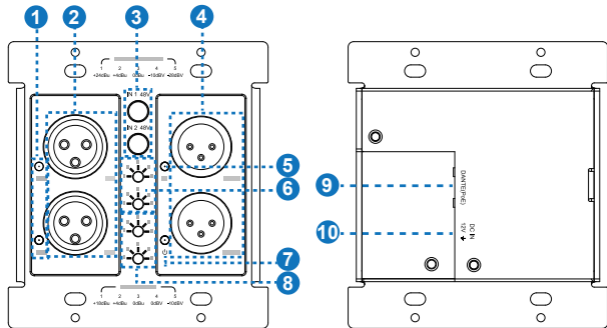
| No.	Name	Function Description
1	48V LED 1/2	48V phantom power LEDs. When the 48V phantom power of the MIC audio input channel 1/2 is turned on, the corresponding 48V LED is on.
2	Audio IN 1/2 port	Balanced/unbalanced XLR analog audio input port 1/2, connected to MIC/LINE analog audio source devices.
3	IN 1/2 48V button & backlit LED	Press the button to turn on the 48V phantom power of the MIC audio input channel 1/2, then the corresponding backlit LED is on.
4	Audio OUT 1/2 port	Balanced/unbalanced XLR analog audio output port 1/2, connected to analog audio source devices.

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No.	Name	Function Description
5	ID LED (green)	Illuminates to assist in identification of the device via Dante Controller.
6	Audio IN 1/2 knob	The 5-level sensitivity adjustment knob for analog audio input channel 1/2. The knob arrows indicate: 1. +24dBu, 2. + 4dBu, 3. 0dBu, 4. -10dBv, 5. -28dBv.
7	Power (green)	▪ Light on: The device is powered on by PoE or local 12VDC supply. ▪ Light off: The device is powered off.
8	Audio OUT 1/2 knob	The 5-level gain adjustment knob for analog audio output channel 1/2. The knob arrows indicate: 1. +18dBu, 2. + 4dBu, 3. 0dBu, 4. 0dBv, 5. -10dBv.
9	DANTE(PoE) port	100M Dante® digital audio input/output port, connected to the Network Switch through RJ45 line, supporting PD power supply. The green LINK LED is always on after normal connection. The yellow DATA LED is flashing when there is data transmission.
10	DC IN port	12VDC/500mA power input port. The device can be powered via two methods: ▪ Local 12VDC/500mA power supply. ▪ PoE from Network Switch. Device acts as PD mode.

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6. Application Example

2x Input & 2x Output Analogue XLR to Dante® Converter

Mixing Console

MIC

Audio Processor

Network Switch (PoE)

Dante® Amplifier

Note: Please pay attention to the XLR connector pinouts when connecting XLR audio input/output devices.

Male   Female
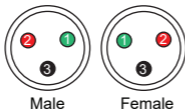
Pin 1: Ground/Shield
Pin 2: Positive/Hot
Pin 3: Negative/Cold

Trademarks
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