

# TASCAM ML-4D/OUT-X Line Output Dante Converter with DSP XLR

The ML-4D/OUT-X is a compact converter that converts Dante input signals into 4-channel line output signals. With half the size of a standard 1U rack, the ML-4D/OUT-X is suitable for different Dante systems as an exquisite analog output unit. The built-in DSP mixer enables small scale systems to fully perform with a variety of input/output models the TASCAM Dante Compact Processor Series offers. ML-4D/OUT-X supports up to 96kHz/24bit and uses XLR connectors for analog line output.

## 4 line output, 4 Dante input/output

The ML-4D/OUT-X not only converts Dante signals into 4-channel line signals; it can also convert them into 4-channel Dante output signals, making it possible to direct these to a Dante established network using the built-in DSP matrix mixer.

## Half-rack size Dante Compact Processor Series

The Dante Compact Processor Series has a line-up of models with different input/output specifications:

- MM-4D/IN, 4-channel mic/line input
- ML-4D/OUT, 4-channel line output
- MM-2D, 2-channel mic/line input/output
- AE-4D, AES/EBU 4-channel input/output

For analog input/output models, the branch extends with units equipped with Euroblock or XLR connectors that users can choose depending on their usage. By combining multiple different units all at once, it is possible to match and introduce them into various systems.

## Optimal input/output unit for different Dante systems

The Dante Compact Processor Series provide easy additional mic/line or AES/EBU input/output to several situations and places such as public facilities, broadcasting stations, recording studios, etc. where Dante systems are being used. They are the optimal input/output unit for small scale environments.

## Structuring small scale systems with the DSP function

The Dante Compact Processor Series are equipped with a matrix mixer that includes a DSP feature with compressors, parametric EQs, limiter, delay, etc. functions. From the input of microphone signals to the output of powered speakers; also applicable with recording/playback systems, the Dante Compact Processor Series can build up a complete small system on their own.

## Flexible routing

Routing to each Dante device is easy via Dante controller. Input/output units can be added flexibly to new or already established Dante systems.

## Compatible with Dante Domain Manager and AES67 mode

The Dante Compact Processor Series are compatible with Dante Domain Manager, which features security functions and enables the use of wide-area networks. This helps the Dante Compact Processor Series access easily to Dante systems using already established network infrastructures. With the AES67 mode, connection to AES67 network systems is also possible.

## The advantages of introducing Dante Network Audio

These are some of the benefits provided when adopting Dante Network Audio:

- **Reduction of system costs**  
It is possible to have a maximum transmission of 128ch I/O with one single CAT5e cable. This leads to fewer cables needed, not to mention the reduction of costs on wiring and space for cable pits.
- **Improved connection flexibility**  
All equipment can be freely connected and routed by applying star connections.

## About Dante

Dante is a transmission protocol developed by Audinate. It enables multi-channel transmission (512ch IN/512ch OUT) and word-clock sync with high accuracy via network with gigabit Ethernet standard.

## Features

- Supports 4 channels of analog line/mic outputs
- ML-4D/OUT-X: balanced XLR model
- Built-in DSP mixer enables a variety of audio processing
- Dante interface included as standard feature
- AES67 (Dante AES67 mode) is also supported, so connection is possible with Ravenna and other network audio technologies compatible with AES67
- Supports daisy-chain connection in Dante switch mode
- Flexible routing is possible using Dante Controller

- Supports PoE (Power over Ethernet)
- Supports power daisy-chaining
- Support for sampling frequencies and bit lengths up to 96kHz and 24-bit
- LEDs for output signal 0Reference level can be set
- Dedicated remote control application for Windows, Mac, iOS and Android (TASCAM DCP CONTROL) 0Half rack size