



Introduction

Thank you for your purchase of the M-Audio CO2 Coaxial/Optical Converter. CO2 is a compact but rugged S/PDIF tool that simultaneously converts S/PDIF signals from optical-to-coax, and coax-to-optical. CO2's innovative 2-in 2-out design allows it to operate as a full-duplex bidirectional converter, or as a half-duplex converter with "thru" port. This enables the CO2 to be used as a converter and a repeater.

Operation

Plug one end of the included power adapter into the CO2's power jack and the other end into a live wall socket or power strip. The power indicator LED on the side of the CO2 will light. Next, choose the CO2's mode of operation by setting the slide switch in the side of the CO2.

NOTE: The CO2's mode switch has been intentionally recessed in order to prevent accidental mode switching. Use a pen or similar object to set the switch position.

The CO2 has three different modes of operation:

- **OPTICAL --> COAX.** Data at the optical input is converted to coaxial output, and also copied "thru" to the optical output. See Figure 1 for an example. In this example, the CO2 is a converter and a repeater.
- **BI-DIRECTIONAL.** Data at the optical input is converted to coaxial output, and data at the coaxial input is converted to optical output. Both conversions occur simultaneously (also known as "full-duplex" operation). This is the most popular mode. See Figure 2 for an example. In this example, the CO2 is a bi-directional converter.
- **COAX --> OPTICAL.** Data at the coaxial input is converted to optical output, and also copied "thru" to the coaxial output. See Figure 3 for an example. In this example, the CO2 is a converter and a repeater.

After the switch has been set to the desired mode, connect the external S/PDIF devices.

NOTE: While it is usually desirable to set the CO2's mode switch before connecting external equipment, the switch setting may also be changed while external equipment is connected to the CO2. You might, however, hear small bursts of noise while switching - this is normal as it takes a small amount of time for external devices to "lock on" to the S/PDIF data stream after the switching takes place.

Features

- Converts S/PDIF optical-to-coaxial and coaxial-to-optical, simultaneously.
- "Thru" ports may be used to extend the length of coaxial or optical runs.
- Three selectable modes of operation.
- Optical (Toslink) and RCA (coaxial) inputs and outputs.
- Power indicator LED.

Specifications

- Inputs: 1 Toslink optical and 1 RCA coaxial jack.
- Outputs: 1 Toslink optical and 1 RCA coaxial jack (transformer-isolated).
- Power supply: 9 Volts DC, center pin positive, 300 milliamps.
- Dimensions: 3.5" x 2.3" x 1.2".
- Approximate weight: 7 ounces.

For best results, when using the CO2 RCA jacks, use a good-quality S/PDIF cable. The cable should be coaxial with 75-ohm impedance. Vendors sell cables specifically for this use, but a good-quality video dubbing cable also has the proper characteristics.

Figure 1 - Optical to Coaxial with Thru

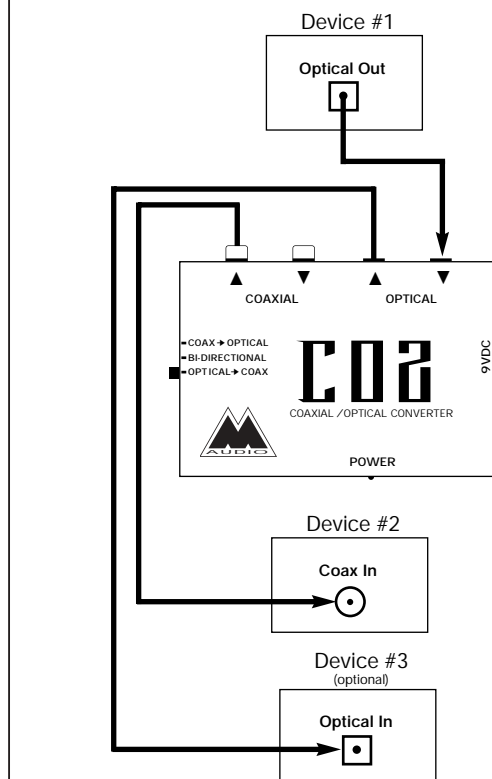


Figure 2 - Optical to Coax, Coax to Optical, or Both simultaneously

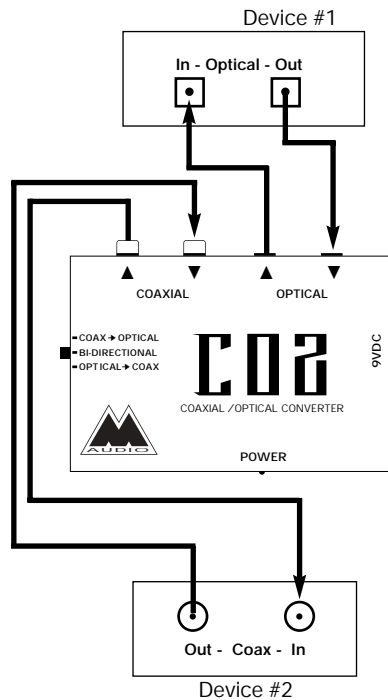
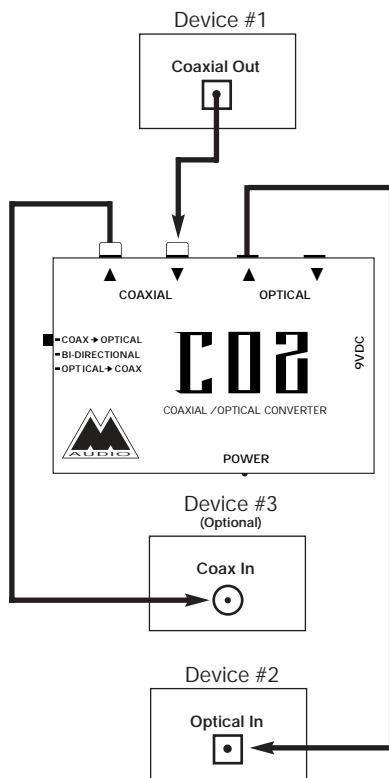


Figure 3 - Coaxial to Optical, with thru



Limited Lifetime Warranty

MIDIMAN warrants that this product is free of defects in materials and workmanship under normal use so long as the product is: owned by the original purchaser; the original purchaser has proof of purchase from an authorized MIDIMAN dealer; and the purchaser has registered his/her ownership of the product by sending in the completed warranty card.

This warranty explicitly excludes power supplies and included cables which may become defective as a result of normal wear and tear.

In the event that MIDIMAN receives written notice of defects in materials or workmanship from such an original purchaser, MIDIMAN will either replace the product, repair the product, or refund the purchase price at its option. In the event any repair is required, shipment to and from MIDIMAN and a nominal handling charge shall be born by the purchaser. In the event that repair is required, a Return Authorization number must be obtained from MIDIMAN. After this number is obtained, the unit should be shipped back to MIDIMAN in a protective package with a description of the problem and the Return Authorization clearly written on the package.

In the event that MIDIMAN determines that the product requires repair because of user misuse or regular wear, it will assess a fair repair or replacement fee. The customer will have the option to pay this fee and have the unit repaired and returned, or not pay this fee and have the unit returned unrepaid.

The remedy for breach of this limited warranty shall not include any other damages. MIDIMAN will not be liable for consequential, special, indirect, or similar damages or claims including loss of profit or any other commercial damage, even if its agents have been advised of the possibility of such damages, and in no event will MIDIMAN's liability for any damages to the purchaser or any other person exceed the price paid for the product, regardless of any form of the claim. MIDIMAN specifically disclaims all other warranties, expressed or implied. Specifically, MIDIMAN makes no warranty that the product is fit for any particular purpose.

This warranty shall be construed, interpreted, and governed by the laws of the state of California. If any provision of this warranty is found void, invalid or unenforceable, it will not affect the validity of the balance of the warranty, which shall remain valid and enforceable according to its terms. In the event any remedy hereunder is determined to have failed of its essential purpose, all limitations of liability and exclusion of damages set forth herein shall remain in full force and effect.

If, after reading the manual, you need additional tech support or have comments or suggestions, we invite you to contact us directly, using the following information:

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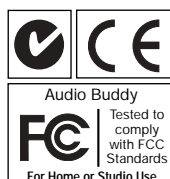
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