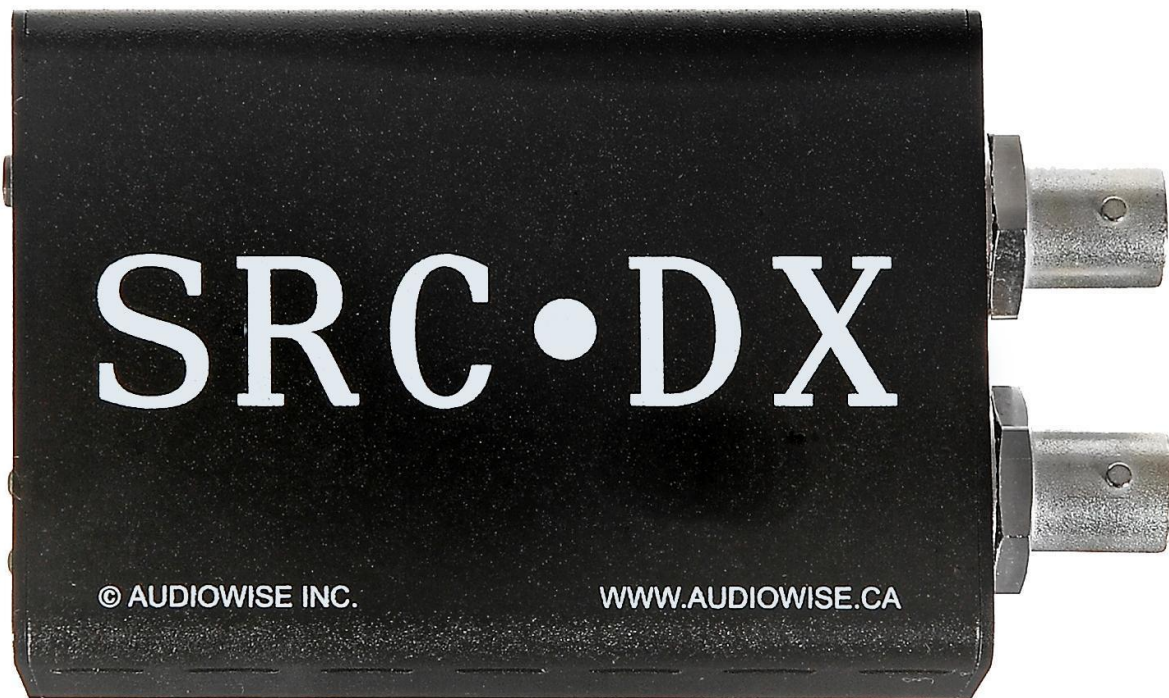


AUDIOWISE

SRC•DX USER'S GUIDE



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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the USB power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

CONTENTS

1. INTRODUCTION	5
2. APPLICATION	5
3. PACKAGE CONTENTS	5
4. SYSTEM REQUIREMENTS	6
5. FEATURES	7
6. CONTROLS AND FUNCTIONS	8
7. CONNECTION DIAGRAM	9
8. SPECIFICATIONS	10

1. INTRODUCTION

This USB to Dual-Coax S/PDIF converter converts PCM audio signals from USB Audio 2.0 format into high resolution single or dual-coax S/PDIF format. It is powered directly from the USB port; no external power is required. It allows connection from a source computer (PC/Laptop) to a compatible digital-to-analog converter (DAC).

2. APPLICATION

This transfer of high resolution audio to DACs which support coax SPDIF inputs is convenient and common. Of particular application is the dual-coax SPDIF interface on a compatible DAC and the USB output from a source computer running audio up-sampling software. SRC-DX thus enables the up-sampled audio to be converted from the USB output of the source computer to the dual-coax input required by the compatible DAC.

The benefit of using SRC-DX is the avoidance of internal RF noise generated from the DACs own USB receiver chip. SRC-DX's dual-coax SPDIF interface is low noise, self-clocking and is arguably the best way to transfer high resolution audio.

3. PACKAGE CONTENTS

- SRC•DX Unit
- User's Guide
- Optional: Accompanying coax patch cables

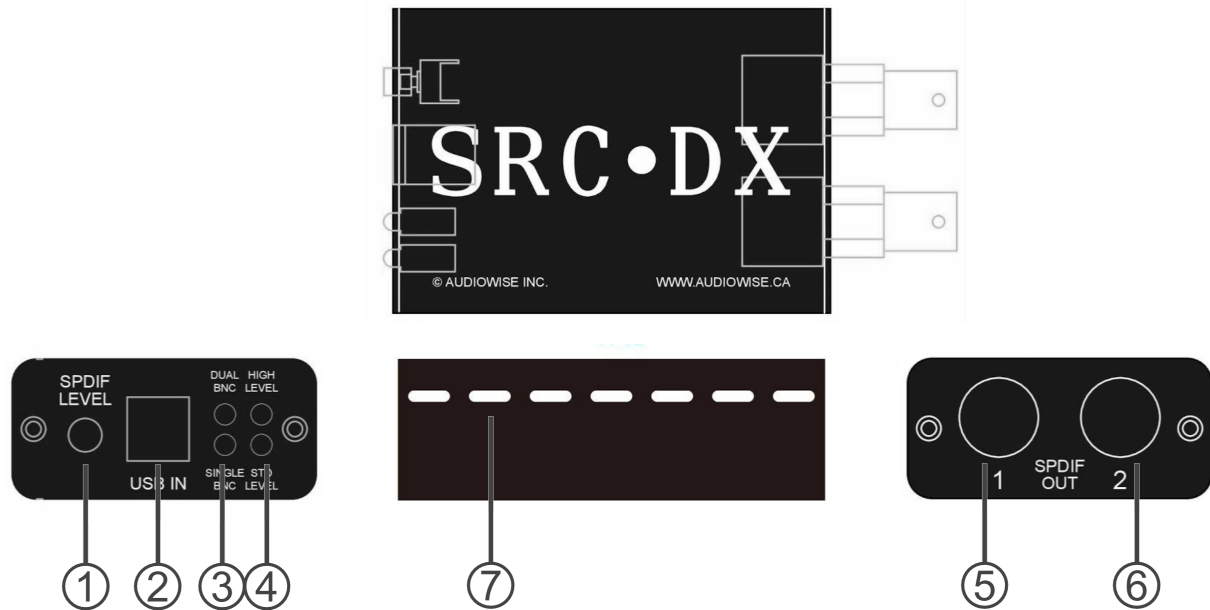
4. SYSTEM REQUIREMENTS

- Audio source component such as a PC/Laptop with an available USB port.
- S/PDIF Coax Input (single or dual) compatible DAC
 - See www.AudioWise.ca for a complete list
- Windows
 - Version 7, 8, 10, 11
 - 32-bit & 64-bit for single-coax playback
 - 64-bit for dual-coax playback
 - Audio interface supports WASAPI Exclusive or ASIO
 - CPU support for SSE4.2 instruction set
- Apple
 - OSX version 10.13 or later
 - Audio interface with CoreAudio drivers
 - CPU support for SSE4.2 instruction set
- Ubuntu (Linux)
 - Version 10.14 LTS 64-bit (Ubuntu Studio is recommended)
 - Audio interface with ALSA-drivers
 - CPU support for SSE4.2 instruction set

5. FEATURES

- Converts USB 2.0 audio to dual-coax SPDIF
- Supports PCM 2-channels (stereo) up to 768kHz @ 24-bits
- Does not support DSD or DOP (DSD over PCM)
- Adjustable S/PDIF signal level
- Plug and play operation (Windows, macOS, Linux)
- Integrates well with HQPlayer and PGGB up-sampling
- No supplemental power required
- Low power consumption
- Low RF noise at coax outputs

6. CONTROLS AND FUNCTIONS



① **SPDIF LEVEL:** Push-button switch to select STD LEVEL or HIGH LEVEL SPDIF output. For Chord Electronics DACs this should be set to HIGH LEVEL, otherwise use STD LEVEL.

② **USB IN:** Connect to a compatible USB source

③ **SINGLE/DUAL BNC:** LEDs indicate USB sampling rate and active outputs(s).
Ch1 (SINGLE BNC) for 44.1 to 384khz.
Ch1+Ch2 (DUAL BNC) for 705.6/768khz.

④ **HIGH/STD LEVEL:** LEDs indicate AES/EBU (STD) or DX (HIGH) compatible SPDIF signal output

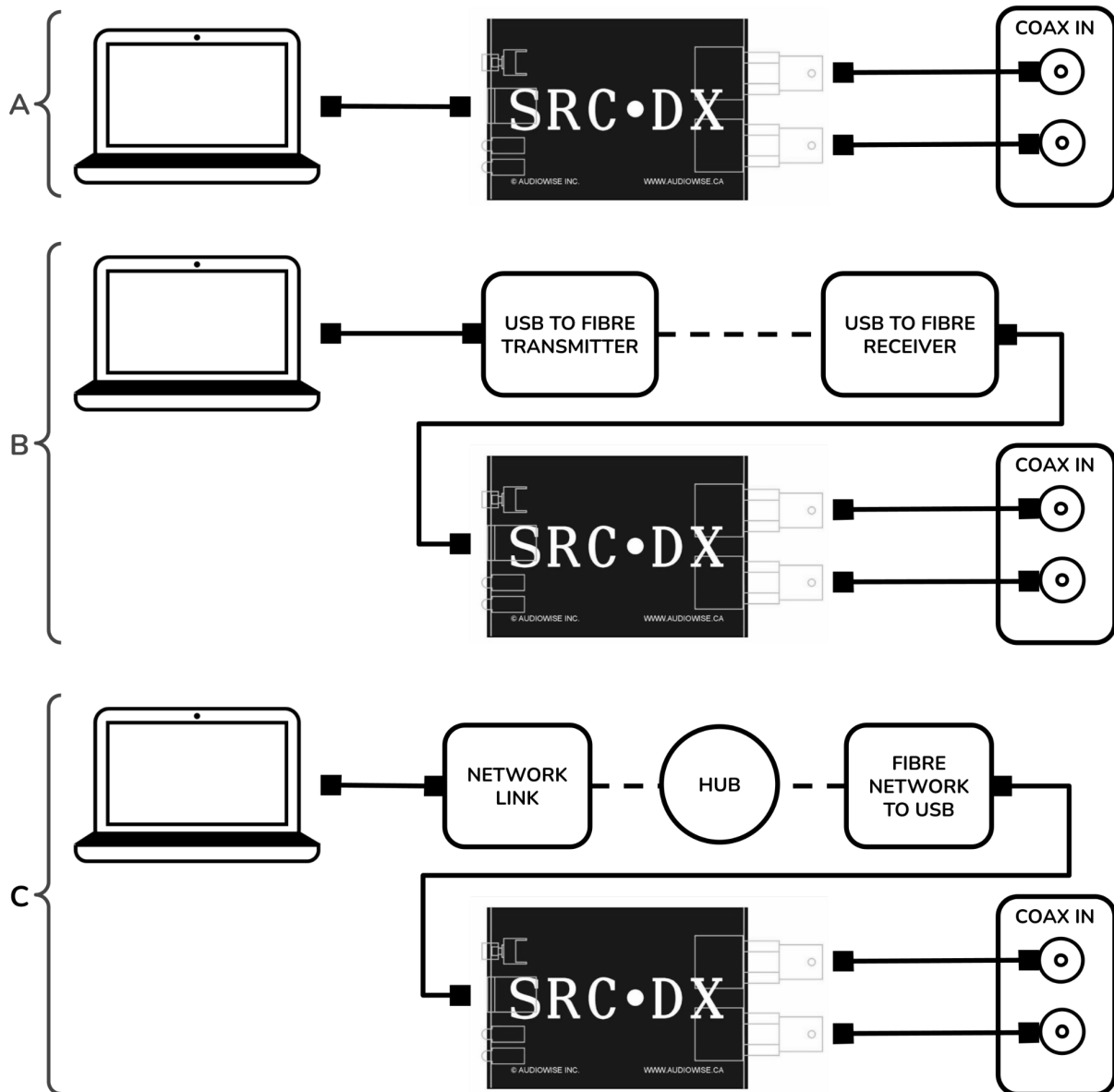
Any illuminated LED indicates the unit is receiving power from the USB connection

⑤ **SPDIF OUT Ch1:** Active for SINGLE and DUAL BNC output

⑥ **SPDIF OUT Ch2:** Active for DUAL BNC output only

⑦ **AIR VENTS:** Passive air ventilation (on both sides)

7. CONNECTION DIAGRAM



A. Connect the USB SOURCE (PC/Laptop, etc.) with a USB 2.0 certified cable. Connect the COMPATIBLE DAC via BNC terminated RG59 or RG179 coaxial cable.

B. Connect using an intermediate USB Fibre Extender.

C. Connect using a Fibre Networking-to-USB (OpticalRendu)

8. SPECIFICATIONS

Input Ports	1 x USB (Type B)
Output Ports	2 x Coaxial (BNC)
ESD Protection	Human Body Model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Dimensions	72mm x 50mm x 23mm [Case Only]
Weight	300g
Chassis Material	Aluminum
Operating Temperature	0°C-40°C / 32°F-104°F
Storage Temperature	-20°C-60°C / -4°F-140°F
Relative Humidity	20-90% RH (no condensation)

USB Audio	
USB Audio Class	USB Audio 2.0
Format Support	LPCM 2.0 up to 768kHz sampling
OS Support	Windows, OSX, Ubuntu

S/PDIF	
Specification	AES/EBU Tech 3250-2004
Standard-Level Signal	0.6V (nominal)
High-Level Signal (DX)	2.5V (nominal)
Internal Bit Depth	24-Bits
Single Coax Rates	44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz
Dual Coax Rates	705.6kHz, 768kHz

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