

# Digital audio decoder

## SX-519

### User's manual



**Gold Edition**

# I、Product Introduction

Thank you for using the SX-519 Gold Edition 5.1-channel digital audio decoder. The decoder output on the digital playback device decodes the audio signal source, restores to DTS/AC-3 Dolby sound field, connect 5.1 amp, stereo audio and 2.1 audio devices. Enable you to enjoy DTS/AC-3 Dolby sound field with shock effect. This product is dual-fiber, single coaxial, single stereo input can not only solve DTS, Dolby AC-3 decoding, but also enables multiple players sharing a set of audio equipment.

## 1、Features

- 1) support digital DTS, Dolby AC-3 audio signal source decoding, output 5.1 or 2.1-channel analog audio signal
- 2) Support analog Stereo (R / L) to decode the audio signal output of 5.1 or 2.1-channel analog audio signal
- 3) two-channel digital OPTICAL (optical) audio inputs, one digital COAXIAL (coaxial) audio inputs, one analog AUX (stereo) input. More sophisticated multi-channel digital audio and analog audio input
- 4) multi-channel signal input, one-button switch, convenient for use.
- 5) Power auto-detection signal input channel, switch to a signal input channel when no signal input, output mute function
- 6) 6 RCA (RCA) output 5.1 or 2.1-channel, one-button switch, saving power and memory.
- 7) 24-bit audio DSP, 96KHZ/24bit ADC and DAC digital processing chip

## 2、Application

Applicable to PS2, PS3, XBOX360, DVD, HD-CD, high-definition players, Blu-ray DVD, car navigation DVD, computer (sound card with optical or coaxial output), digital audio satellite TV, digital TV set-top boxes, KTV audio products.

## 3、Technical Parameters

- 1) Input Voltage: DC 12V 1000mA
- 2) SNR: 120db
- 3) Separation: 80db (1KHZ)
- 4) Frequency response: 20HZ-20KHZ  $\pm$  0.5db
- 5) Maximum Output Level: 2.2V
- 6) Product Size: 168 \* 103 \* 42mm
- 7) Environmental temperature: -25  $^{\circ}$ C ~ 75  $^{\circ}$ C

## 4、Packaging Accessories

Accessories	Nunber	Remarks
SX-519 Audio Decoder	1	Yellow
Power Adapter	1	DC 12V 1A
Fiber Cable	1	1M
Coaxial	1	1.8M
Manual	1	Chinese/English

# II、 Instructions

## 1、 Preparation

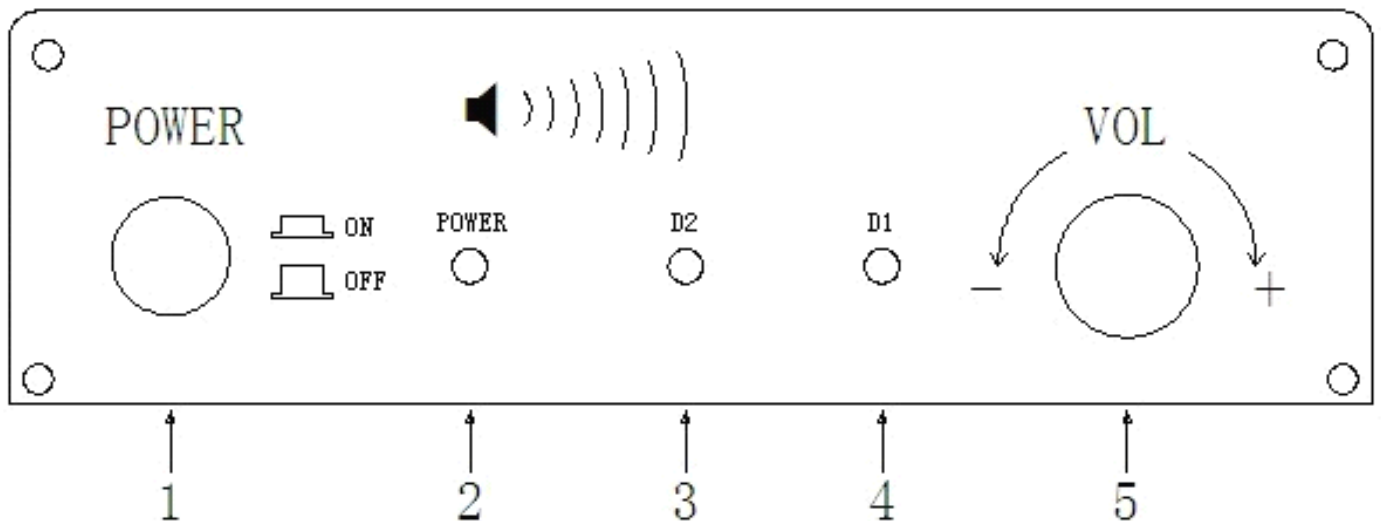
- 1) check the product packag
- 2) connect the digital audio signal output of pre-playback device
- 3) connect 5.1 post-audio output power amplifier or active
- 4) connect power
- 5) press the power switch
- 6) check input source, decoding output 5.1-channel

## Tips

To ensure the normal use of the product, the product should be operated when power is connected to prevent static electricity or pulse voltage damage. If not using, turn off the power switch to save electricity.

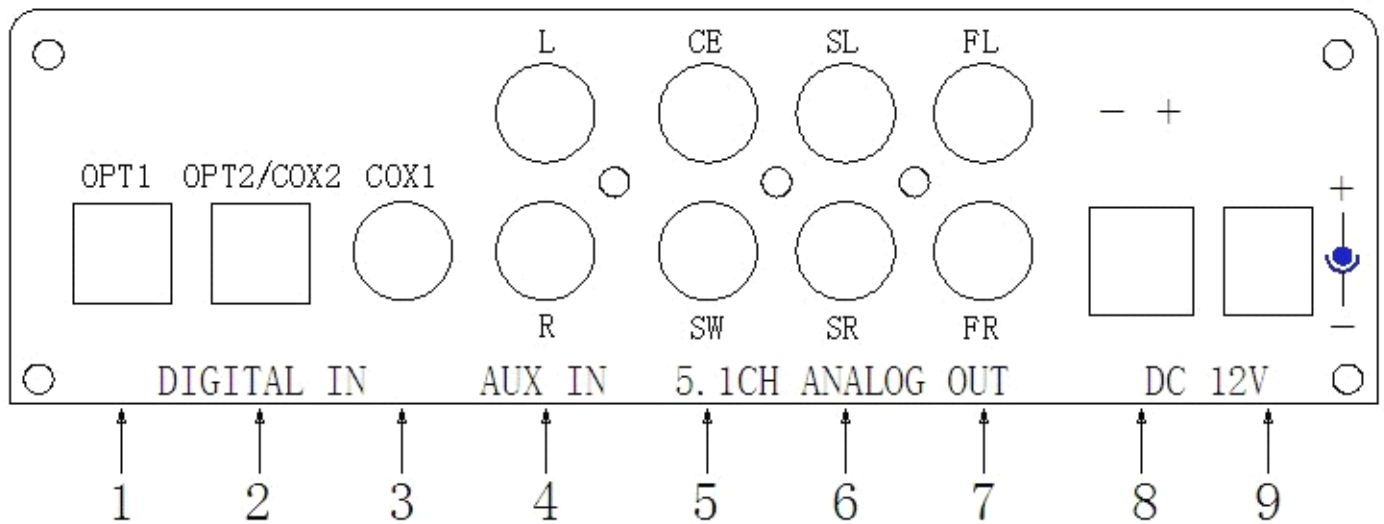
## 2、 Interface description

### Front panel interface description



- 1) Power switch ON / OFF
- 2) power indicator, power red light
- 3) Fiber 2 (OPT2) or coaxial 2 (COX2) indicator
- 4) Fiber 1 (OPT1) indicator
- 5) volume control encoder (switch channels or adjust the length by five seconds 5.1/2.1 output switch)

## Rear Panel Interface Description



- 1) digital optical 1 (OPT1) input
- 2) Digital Optical 2 (OPT2) or coaxial 2 (COX2) input
- 3) Digital Coaxial 1 (COX1) input
- 4) Stereo (AUX) input
- 5) Subwoofer (SW) and front center (CE) channel output
- 6) Right Surround (SR) and surround left (SL) channel output
- 7) Front right (FR) and front left (FL) channel output
- 8) 12V 1A DC input terminal blocks
- 9) 12V 1A DC input

### 3、pre-decode

Playback device (DVD, HD machine, XBOX360, etc.) must be set as source SPDIF (digital) output; sound card, player should also be set as source SPDIF (digital) output instead of PCM output, or other channel output.

### 4、decoding stage

Output is six-way single, you can only access your amplifier with analog 5.1 inputs, upgrade the old AV amplifier with a dual-fiber, single coaxial digital input, with AC-3, DTS decoder, DSP sound field effect digital amplifier. You can also directly access the Active 5.1-channel audio.

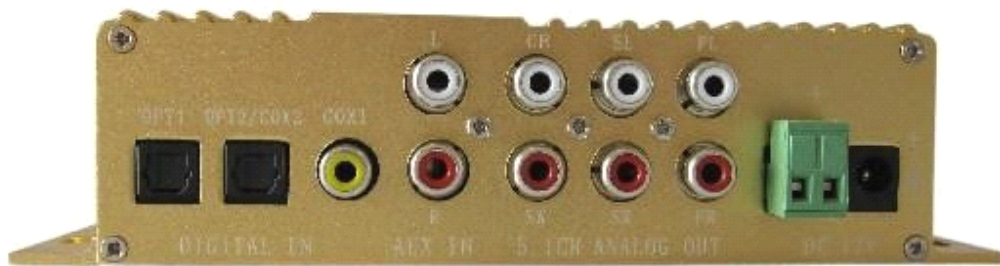
### Tips

This product is only for the digital signal source decoding, without signal amplification. High power audio connection must be promoted by sound amplifier.

### III、 hardware and installation instructions



### Digital audio signal input



### Analog audio signal output



#### 1、 Home Theater Installation

Connect your equipment with the decoder, output 5.1 channel amplifier or active audio connection, with an external power adapter 12V1A connected to AC 100-240V.

#### 2、 Car audio installation

Connect car navigation DVD optical or coaxial output signal with the decoder, output 5.1 decoding output amplifier to each speaker, 12V vehicle power (note the positive and negative can not be reversed).

### IV、 FAQ

#### 1、 LED does not light, no sound output?

Check the power supply, detecting whether the AC power has connected or not; whether the

vehicle power supply positive and negative power is reversed, and then press the power switch.

## **2、 Input and output signals connected, power POWER indicator lights.**

### **But the sound did not sound?**

Check the input and output equipment is workable or not, and then automatically detect the input signal power as follows: Optical 1 (D1 light) - Fiber 2 (D2 light) - coaxial (D1, D2 off) - Stereo AUX

#### **Indicate**

When connected to the input signal and found that blue light jump from D1 to D2, indicating that there is no signal input. Confirm that it is in SPDIF digital output.

## **3、 Why is the playback device with digital signal output, the effect is not**

### **5.1?**

1) Confirm that what played is really DTS/AC3 Dolby 5.1 channel. The decoder can only decode the audio signal source, but not any new sources for mandatory reduction to 5.1-channel output.

2) If the effect is 2.1, just press the volume adjust switch three seconds then release to switch to 5.1-channel output

3) stereo audio input, the decoder just break out the 5.1 channel stereo sound, which is virtual

## **V、 warranty service commitments:**

### **Warning**

Ensure the product is completely installed before connecting to power. Random mating and power off is prohibited. The product does not contain any repair parts, non-professionals do not open the machine for maintenance!

### **Commitment**

Seven days for replacement if quality defects has been found, one year for free repairs, and lifetime maintenance

### **One of the following maintenance will be charged**

- 1) Exceed one-year warranty period
- 2) Damage caused by connecting to other equipment
- 3) Damage caused by personal maintenance
- 4) Collisions, falls and other non-product quality failures and damage
- 5) Damage caused by non-conformance to product instructions
- 6) Damage caused by fire, lightning and other unforeseen disasters

### **Remarks**

The above damages should charge for the parts replacement cost and the the postage!

### **Solemnly declare**

The company will not bear any responsibility for the damage caused by the above reasons