5.1 Audio Decoder

User Manual

Thank you for choosing our products. We focus on producing professional, high-quality, cost-effective high-tech products. Let you easily enjoy high-definition digital life brought by technology.

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

Introduction:

This product adopt LINUX operating system. For best performance, it also takes about 16 seconds to self-test and optimize the operating system after electrify.

This audio decoder can convert optical signal, coaxial signal(including LPCM) and analog 2 channel audio signal to 5.1/2.1 channel audio signal output, supporting decode Dolby AC-3/DTS audio into 5.1 analog audio. So it is widely used in families, schools, squares, concert halls, cinemas and other public places to enjoy the shock effect of DTS or Dolby.

Features:

- Adopt high-performance LINUX operating system and audio decoder chip; support DTS/AC-3.
- One-key switch for 5.1 or 2.1 channel output.
- 2 SPDIF Optical Input, 1 Coaxial Input, 1 Stereo Input.
- AUX Input Port: Connect to any group of LPCM stereo signals (such as computer audio, MP3/MP4 player audio).
- Automatically detect AC-3 DTS LPCM digital audio signal.
- Multiple channels, one-key switch. Fast and convenient.
- High compatibility: Support network player, HDTV, Blu-ray DVD, DVD, PS3, Xbox 360, DM500S, DM800HD, etc.
- Small Size and Metal case, Anti-interference.
- Support play back with U disk. Automatically identify U disk to play. (Do not support the U disk with exFAT file system)

Specification:

Support audio format....... MP3, AC3, DTS, WAV, WMA, AAC, FLAC, APE, OGG, M4A, M3U8

Signal Noise Ratio...120db

Stereo Isolation...80db (1KHZ)

Channel Unbalance...0db

Sampling Rate...32~192 KHz

Bit Rate..16~24 Bit

Response Frequency.......................................20Hz~20KHz +/- 0.7db

THD...20Hz~20KHz 0.25~0.065%

THD+N...1KHZ 0.15%

Analog Output level..2.2V

Analog Input level..1V (3db)

Shell Dimension..105×75×25mm

Port............Optical port×2, Coaxial port×1, earphone input×1, earphone output×3, USB port×1

Power Adapter............... Input: 100V ~ 240V (50 – 60Hz). Output: 5V/1A

Max Power Current..400mA

Working Temperature/Humidity........0~70℃/10%-80%RH (non-condensing)

Storage Temperature/Humidity......-10~80℃/5% -90% RH (non-condensing)

Package Contents:

Decoder...1PCS

User Manual...1PCS

100V~240V (50-60Hz) 5V/1A Power Adapter....................................1PCS

Fiber-optic cable..1PCS

Diagram of Interfaces:

DC/5V: Power Interface.
Input:Input channel switch button
2.1/5.1: Output 2.1 or 5.1 channel switch button
1-Spdif-2: Optical input port
Coaxial: Coaxial Input port
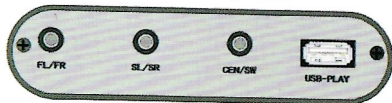Aux: Analog 2 channel audio input port
Power: Power indicator light
D1: Optical 1 indicator, light when chose optical 1 channel
D2: Optical 2 indicator, light when chose optical 2channel
D3: Coaxial indicator, light when chose Coaxial channel
Power D1 D2 D3 all light means USB playback mode.
D1 D2 D3 all not light means Aux input mode.

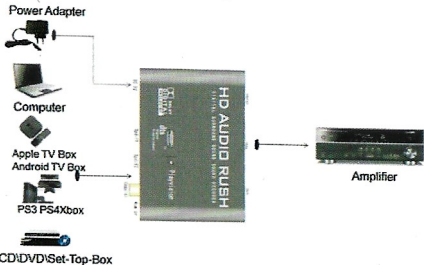FL/FR:Front left/right output port
SL/SR:Postposition left/right output port
CEN/SW: CEN :Middle output port SW:Heavy bass output port
USB-PLAY:USB interface. (Connect to U disk when you need to play the music
in it.)

Connection and Operation:
1. Use 3.5mm audio cable to connect FL/FR SL/SR CEN/SW port to Audio
   amplifying device (such as amplifier) correspondingly.
2. Use optical cable, Coaxial cable or 3.5mm audio cable to connect optical
   port, coaxial port or AUX port to the audio playback device (such as CD, DVD,
   games console, computer etc.)
3. Connect the U disk to the USB port of the decoder when you need play
   back with U disk.

4. Connect +5V/DC005 plug power cable to the Power Interface of the decoder, the Power indicator will light when power on. After start up, the default mode is USB mode.

5. Continuously press Input key when you need to switch input channel.

6. Continuously press 2.1/5.1 key when you need to switch 2.1/5.1 sound output. when you select 2.1 sound output mode , ONLY FL/FR port make a sound. Other interface have no sound.

Note:

Please use the machine as the instruction listed to keep the long lifetime of it.

1. Please do not expose this unit to the damp, high-temperature, dusty, erosive, or oxidative environment.

2. All parts will be free from the strong shake, hit, fall.

3. Please do not touch the power adapter with wet hands.

4. Please hold the plug when unplugging. Do not pull the power cable directly.

5. Please turn the unit off when it is not in use for a long period of time.

6. Please do not open the cover and do not touch the inside parts.

7. Please use the original factory power adapter.

Before switching on the extractor, please check all the cables carefully and make sure all the interfaces are connected correctly. The common problems and the relevant solutions are showed as follows.

No.	Problem Description	Solutions
1	Non-Power-Connected	1. Check if the power adapter plug is inserted the power socket correctly 2. Check if the power is on
2	No Audio Output	1. Confirm that the audio signal source is connected to the decoder correctly 2. Check if selected the corresponding input channel 3. Confirm that the analog output is connected to the 5.1 input interface of the amplifier 4. Check whether the amplifier is in 5.1 input mode, whether it is stardted and the volume adjustment is normal 5. Check whether the cables are in good condition 6. Check whether the playback device is muted or the volume is at a minimum
3	Noise	1. Please reconnect the interfaces, in case the interfaces loose contacts 2. Check cable quality (cable terminal rust, open circuit) 3. Check whether the noise is from the audio sources