

# Digital S/PDIF and Toslink Audio over single Cat5e/6 Transmitter & Receiver - ID# 989



**Operation Manual**

## Introduction

Digital S/PDIF and Toslink Audio over single Cat5e/6 Transmitter & Receiver is designed to transmit Optical and Coaxial digital audio signals up to 150 meters using one CAT5e/6 cable. Supports stereo and multichannel LPCM, 7.1, DTS, Dolby Digital audio etc via Digital TosLink cable (optical fibre) or Coaxial cable. Output medium is the same as the input medium ie Optical in = Optical out; Coaxial in = Coaxial out. Plug'n'Play functionality and simple, quick installation makes this unit ideal for Digital Audio transmission over long distances using CAT5e/6 cable.

## Applications

- Coaxial audio signal extension over single CAT6 up to 150M away
- Optical audio signal extension over single CAT6 up to 150M away

## System Requirements

Input Coaxial/Optical audio signal source and output amplifier or speaker with connection cables and single CAT6 cable in between the transmitter and receiver.

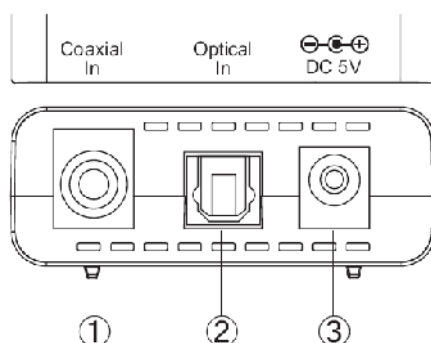
## Features

- Supports Coaxial or Optical digital audio SPDIF signal
- Supports stereo and multichannel (7.1, DTS, DolbyDigital ... and etc.) digital audio
- Supports industry standard Category5/ 5e/6 cable
- Digital audio SPDIF performance sampling rate 96kHz
- Supports single Coaxial input to Coaxial signal output
- Supports single Optical input to Optical signal output

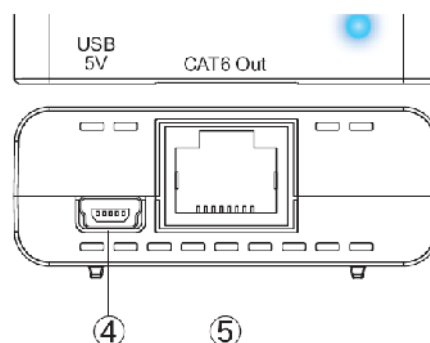
## Operating Functions and Controls

### Transmitter

#### Front Panel



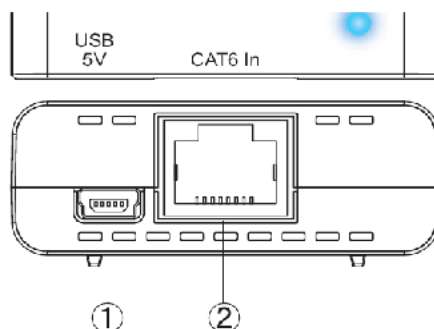
#### Rear Panel



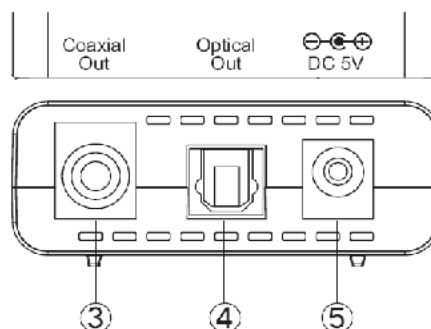
- 1. Coaxial In:** This slot is to connect with source audio equipment such as DVD or Blue-Ray player for input audio signal sending.
- 2. Optical In:** This slot is to connect with the audio source equipment such as DVD or Blue-Ray player for input audio signal sending.
- 3. DC 5V:** This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet. (Only one side of power is require)
- 4. USB 5V:** This slot is to connect with USB cable for power supply from PC/NB.
- 5. CAT6 Out:** This slot is to connect with CAT6 cable to the receiver side.

### Receiver

#### Front Panel

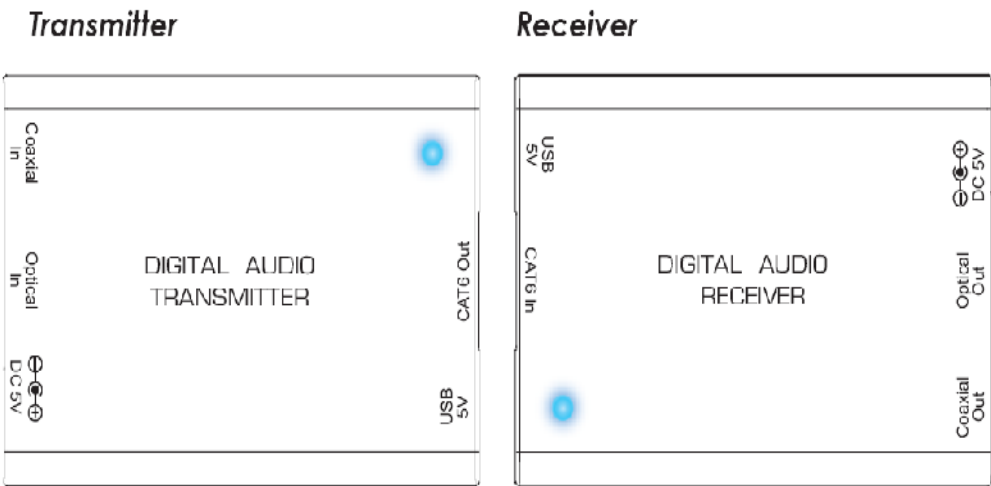


#### Rear Panel



- 1. USB 5V:** This slot is to connect with USB cable for power supply from PC/NB.
- 2. CAT6 In:** This slot is to connect with CAT6 cable from the transmitter side.
- 3. Coaxial OUT:** This slot is to connect with output audio equipment such as amplifier or active speakers with coaxial input.
- 4. Optical Out:** This slot is to connect with output audio equipment such as amplifier or active speakers with optical input.
- 5. DC 5V:** This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet. (Only one side of power is require)

Top Panel

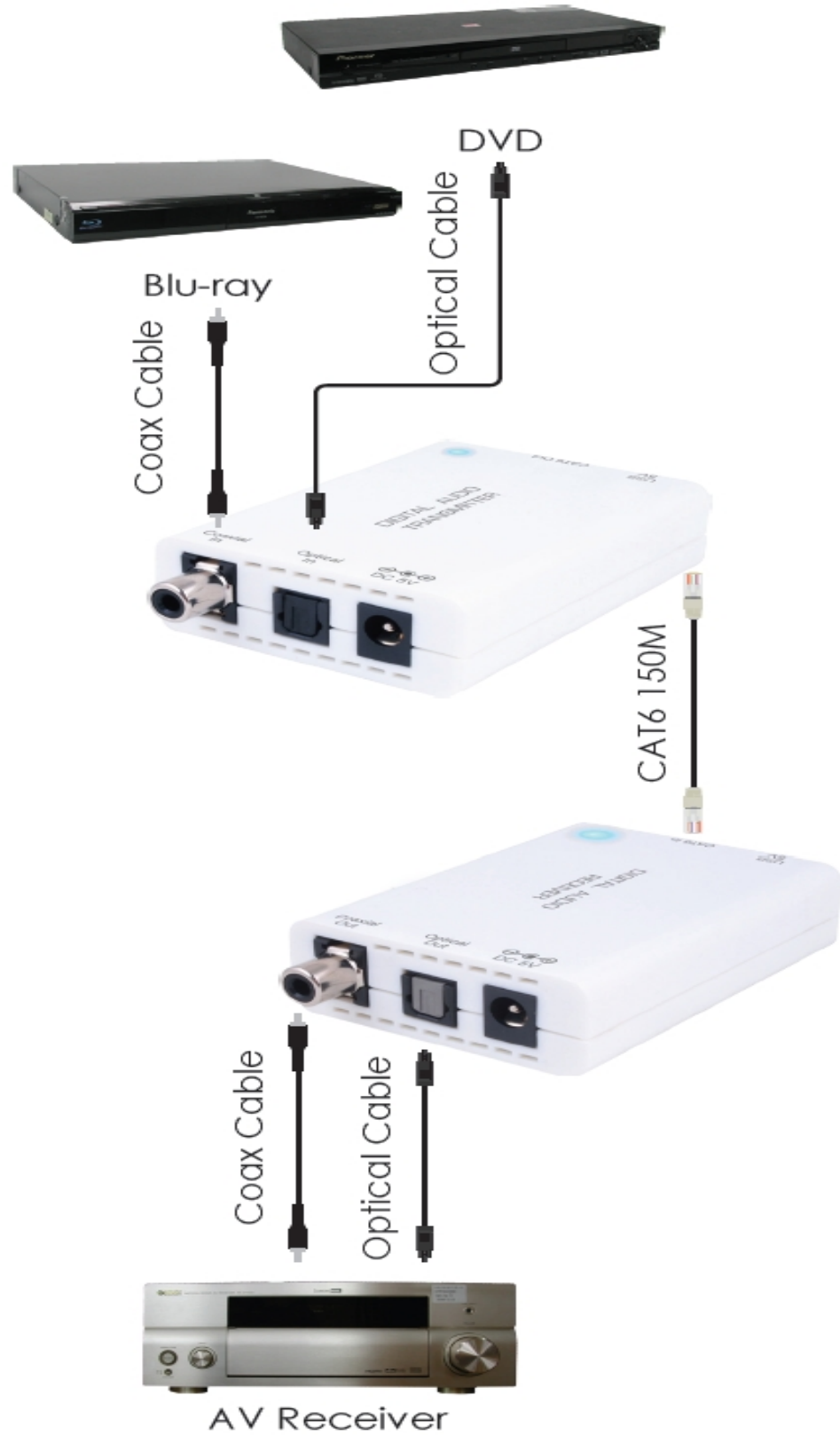


**1. Power LED:** The blue LED will illuminate when the device is connected with power.

RJ-45 Pin Assignment

Transmitter			Receiver		
Pin	Definition	Cat5/5e/6 150M ↔	Pin	Definition	
1	Signal A		1	Signal A	
2	Signal B		2	Signal B	
3	Signal C		3	Signal C	
4	GND		4	GND	
5	GND		5	GND	
6	Signal D		6	Signal D	
7	DC5V		7	DC5V	
8	DC5V		8	DC5V	

## Connection



## Specifications

### Transmitter

Input 1 x Coaxial & 1 x Optical  
Output 1 x CAT6

### Receiver

Input 1 x CAT6  
Output 1 x Coaxial & 1 x Optical

CAT6 Cable Distance 150 meters  
Sample Rate 32 / 44.1 / 48 / 88.2 & 96KHz  
ESD Protection Human Body Model:  
± 6kV (air-gap discharge)  
± 4kV (contact discharge)  
Dimension (mm) 22 (H) x 70 (W) x 50 (D)  
Weight (g) 50  
Operating Temperature 0°C ~ 45°C / 32°F ~104°F  
Storage Temperature -20°C ~ 60°C / -4°F ~140°F  
Relative Humidity 20~90% RH (non-condensing)  
Power Consumption 2W