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User Manual

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**DLNA Audio Receiver**

**DEAR CUSTOMER**

Thank you for purchasing this product. For optimum performance and safety,

please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

## 1.0 Introduction

Over this DLNA Audio Receiver, you can push your music wirelessly from your mobile phone or computer with Windows media player on your home audio system. You'll not only enjoy superior quality music on your stereo speakers or Amplifier Receiver, but also the convenience of a wireless connection. With WPS button, you can connect to network by pressing a pairing button on this Receiver and on wireless access point.

It is ideal for your mobile phones, portable devices, or personal computers.

## 2.0 Features

- Stream directly to an existing Stereo and Toslink port
- Control and listen to your favorite music wirelessly using this product through home audio system.
- Digital Media Renderer(DMR DLNA )
- Support Digital Media Player(DMC DLNA)
- Support Media format:
  - MP3 (up to 48 kHz, CBR & VBR)
  - AAC (up to 48 kHz, 8-320 kbps)
  - WMA (up to 48 kHz, CBR & VBR) including Lossless
  - LPCM, WAV (up to 48 kHz, up to 1.44 Mb/s)
- Support wire or wireless connection
  - Wire:10/100Mbps Ethernet, RJ45
  - Wireless: high-performance 802.11b/g/n with WEP/WPA encryption, WPS

## 3.0 Specification

Transmission protocol	DLNA ,Digital Media Renderer(DMR)
Network interface	Wire:10/100Mbps Ethernet, RJ45 Wireless: high-performance802.11b/g/n with WEP/WPA encryption, WPS
Audio output interface	3.5mm Stereo Toslink
USB interface	USB 2.0 A Female
<b>Mechanical</b>	
Size(L-W-H)	125x95x25mm
Weight(Net)	150g
<b>Environmental</b>	
Operating Temperature	0 to +70
Operating Humidity	10% to 85 % RH (no condensation)
Storage Temperature	-10 to +80

Storage Humidity	5% to 90 % RH (no condensation)
<b>Power Requirement</b>	
External Power Supply	5V DC @ 2A
Power consumption (Max)	1.65W
<b>Warranty</b>	
Limited Warranty	1 Year Parts and Labor
<b>Accessories Adapter</b>	
AC Power Adapter	US standard, UK standard and so on
User Manual	English Version

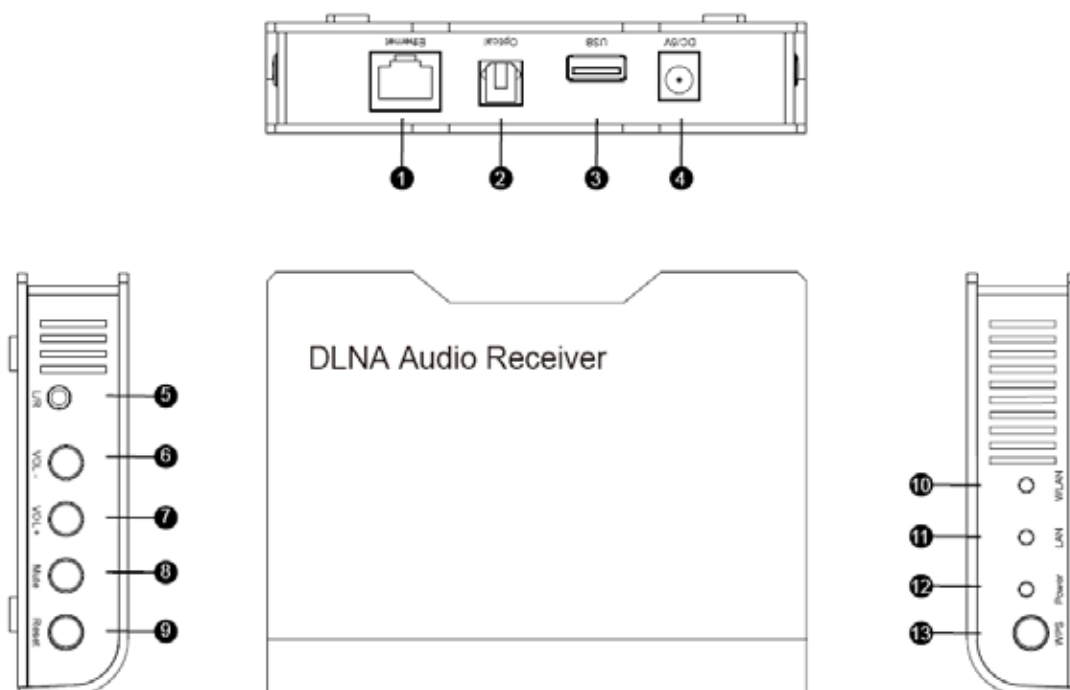
**Note: Specifications are subject to change without notice.**

#### 4.0 Package Contents

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- Main unit x1
- 5V/2A DC Power Supply.
- User's Manual x1

#### 5.0 Panel Descriptions



##### 1. Ethernet Connection:

The Ethernet connection gets priority than the Wi-Fi connection.

If user starts the product with the Ethernet cable plugged, then the product will be connect to network through Ethernet.

If the product has be connected in Wi-Fi, or in non-connected state, then plugging the Ethernet cable to the product will automatically launch the Ethernet

- connection process.
2. Optical  
Output audio to Amplifier Receiver
  3. USB  
Connect this port to USB storage device, and mobile phone can play the music from the USB storage device.
  4. DC/5V  
Connect this port to the Power adapter.
  5. Stereo Female:  
Connect this port to Stereo Speaker or Amplifier Receiver via one piece of stereo cable.
  6. VOL-  
Decrease volume
  7. VOL+  
Increase volume
  8. Mute
  9. Reset
  10. WLAN LED (monocolor red)  
OFF when the product is connected/connecting in Ethernet.  
Blinking while the product is connecting to Wi-Fi.  
Blinking when the product fail to connect to Wi-Fi (e.g., cannot get an IP address).  
Stable OFF after a configurable time (to show the 'not connected state')  
Stable ON when the device is successfully connected
  11. LAN LED (monocolor red)  
OFF when no Ethernet cable is connected  
OFF when the product is connected in Wi-Fi.  
Blinking while the product is connecting through Ethernet..  
Blinking when the product fail to connect to Ethernet. (e.g., cannot get an IP address).  
Goes stable OFF after a configurable time (to show the 'not connected state')  
Stable ON when the device is successfully connected
  12. Power LED (bicolor red/blue)  
Stable RED during boot.  
Stable BLUE after boot.  
Blinking BLUE during firmware upgrade.  
Blinking RED during factory reset.
  13. WPS button (Wi-Fi connection)  
As of today, the Wi-Fi connection process can be launched only through WPS.
    1. Press the WPS button of your access point
    2. Press the WPS button of the product
    3. The connection is successful once the Wi-Fi LED gets stable ON.Later on, once the access point mode will be available, user will be able to connect from an Android phone to this product and configure the Wi-Fi connection manually.

## **6.0 Network Connection**

Before all operation start, please make sure all devices are connected to a network.

When providing power to this product, it will take about 30 seconds to start this product.

### **Ethernet connection**

The Ethernet connection gets priority than the Wi-Fi connection.

If user starts the product with the Ethernet cable plugged, then the product will be connect to network through Ethernet.

If the product has be connected in Wi-Fi, or in non-connected state, then plugging the Ethernet cable to the product will automatically launch the Ethernet connection process.

### **Wi-Fi connection**

As of today, the Wi-Fi connection process can be launched only through WPS.

1. Press the WPS button of your access point
2. Press the WPS button of the product.
3. The connection is successful once the Wi-Fi LED gets stable ON.

Later on, once the access point mode will be available, user will be able to connect from an Android phone to product and configure the Wi-Fi connection manually.

### **FCC ID warnings**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

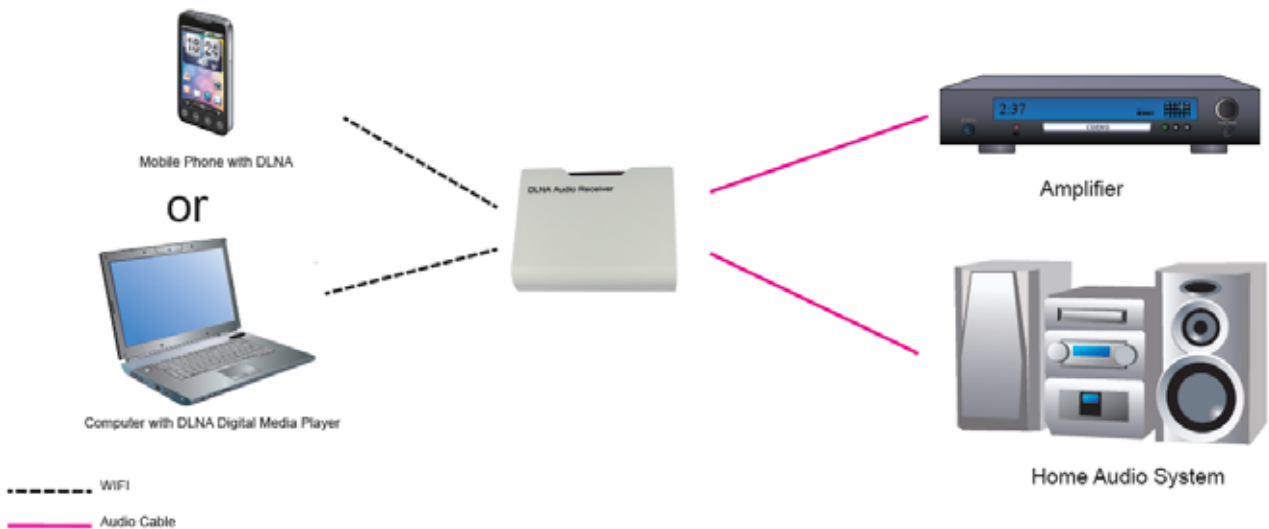
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### RF Exposure Statement

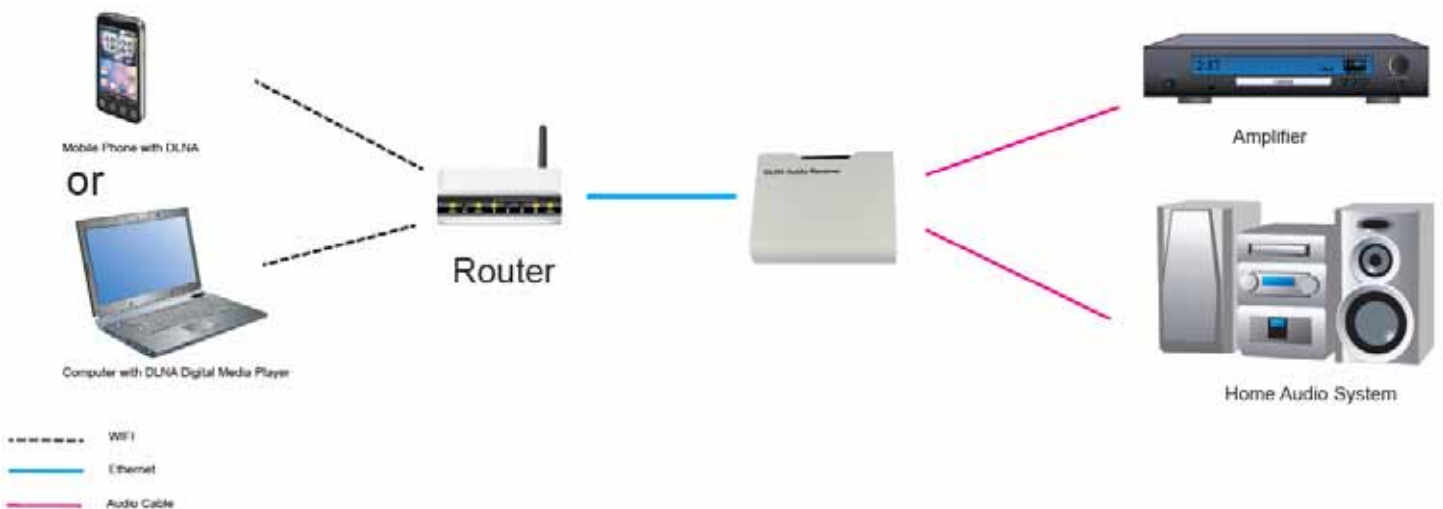
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

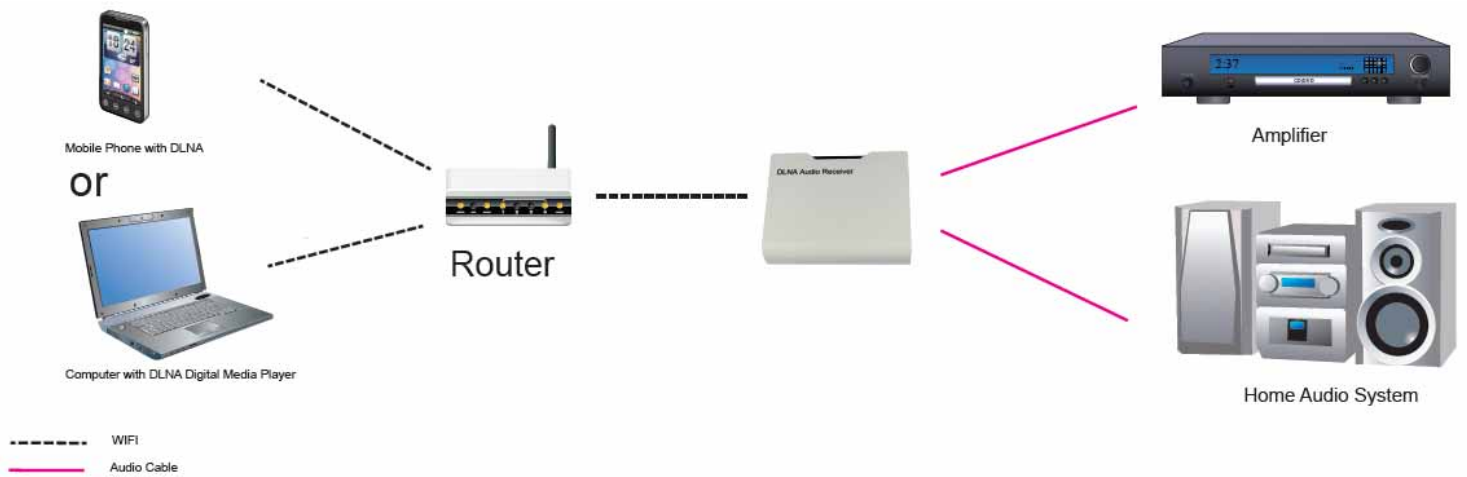
## 7.0 The connection diagram

**Application 1:** This product itself is a Wi-Fi access point, mobile phone or computer can find it and push music to this product to play on Amplifier or Home audio system.



**Application 2:** Via a network Router, let all Ethernet devices be connect to the same network using wire or wireless way. In this segment all mobile phones or computers can all find this product and push their music to this product to play on Amplifier or Home audio system.





### 8.0 The operation for Android mobile phone

Before the operation starts, please make sure the mobile have been connected to this product

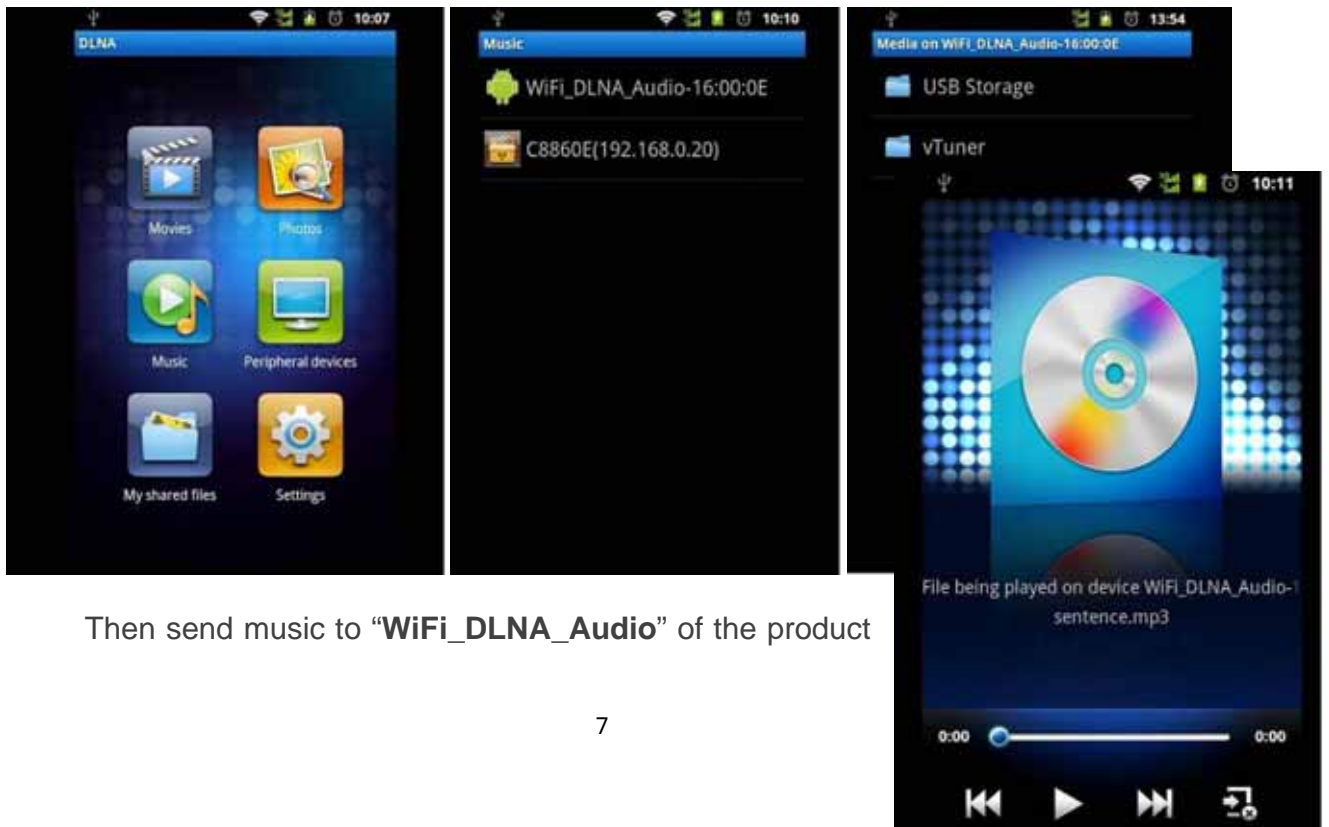
Open the DLNA application of the mobile phone



in the "Peripheral Device", you can find the product's name: "WiFi\_DLNA\_Audio" or Local Player's name, for example, "C8860E(192.168.0.20)"



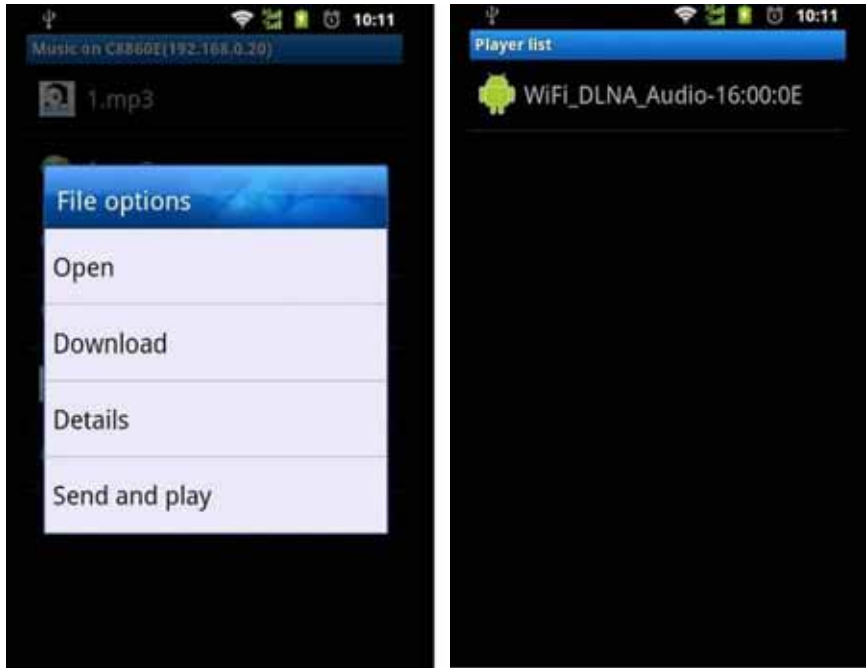
Then in the “Music” you can select the music from mobile phone or USB storage device of the product



Then send music to “WiFi\_DLNA\_Audio” of the product



to play

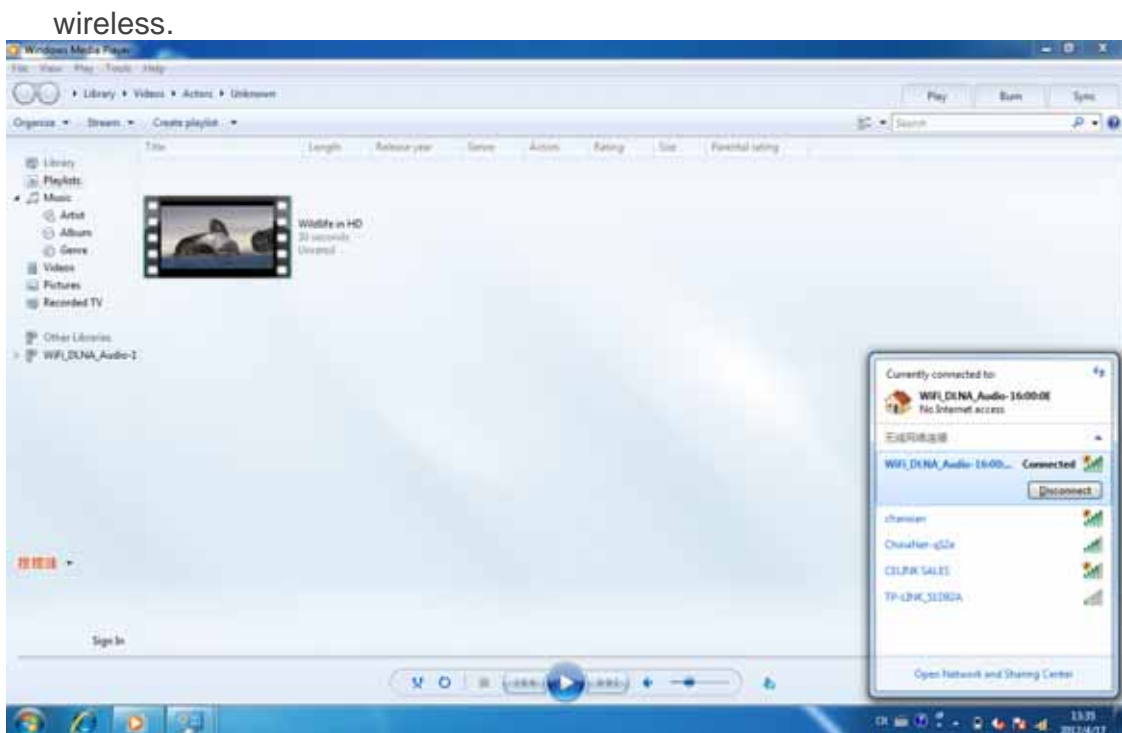


## 9.0 The operation for computer

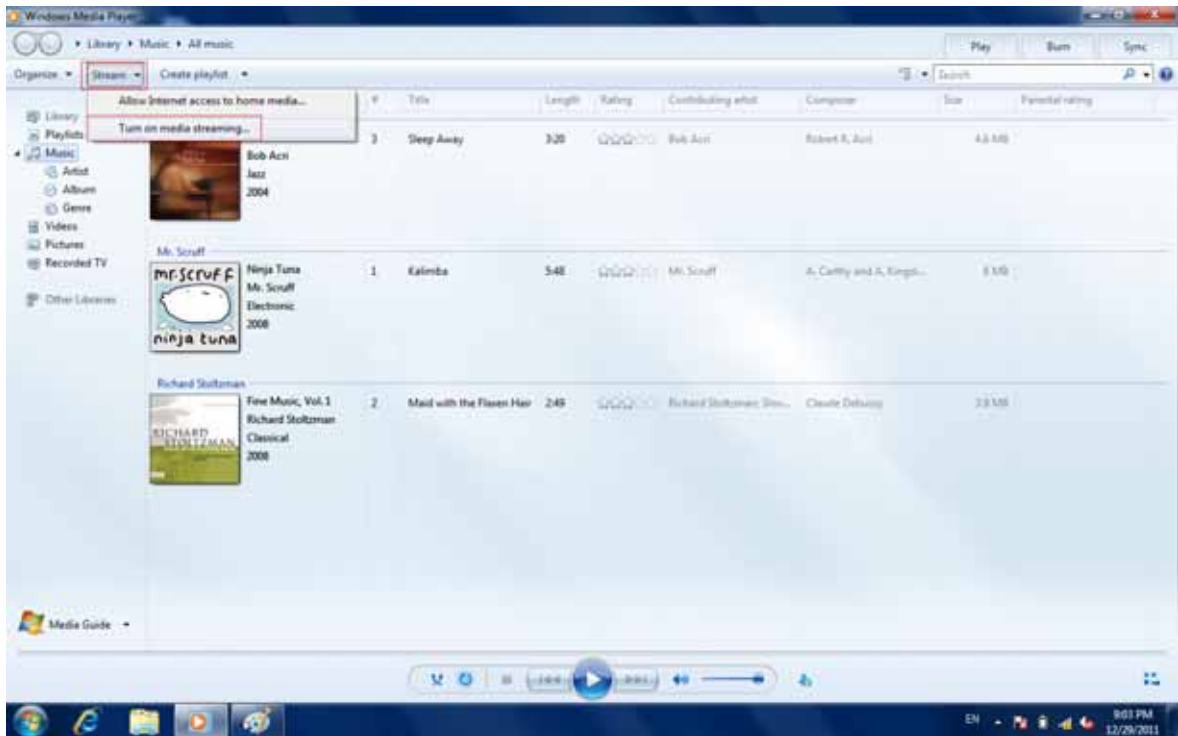
Before the operation starts, please make sure:

- a. The computer has been connected to this product.
- b. The operation system of the computer is Windows 7

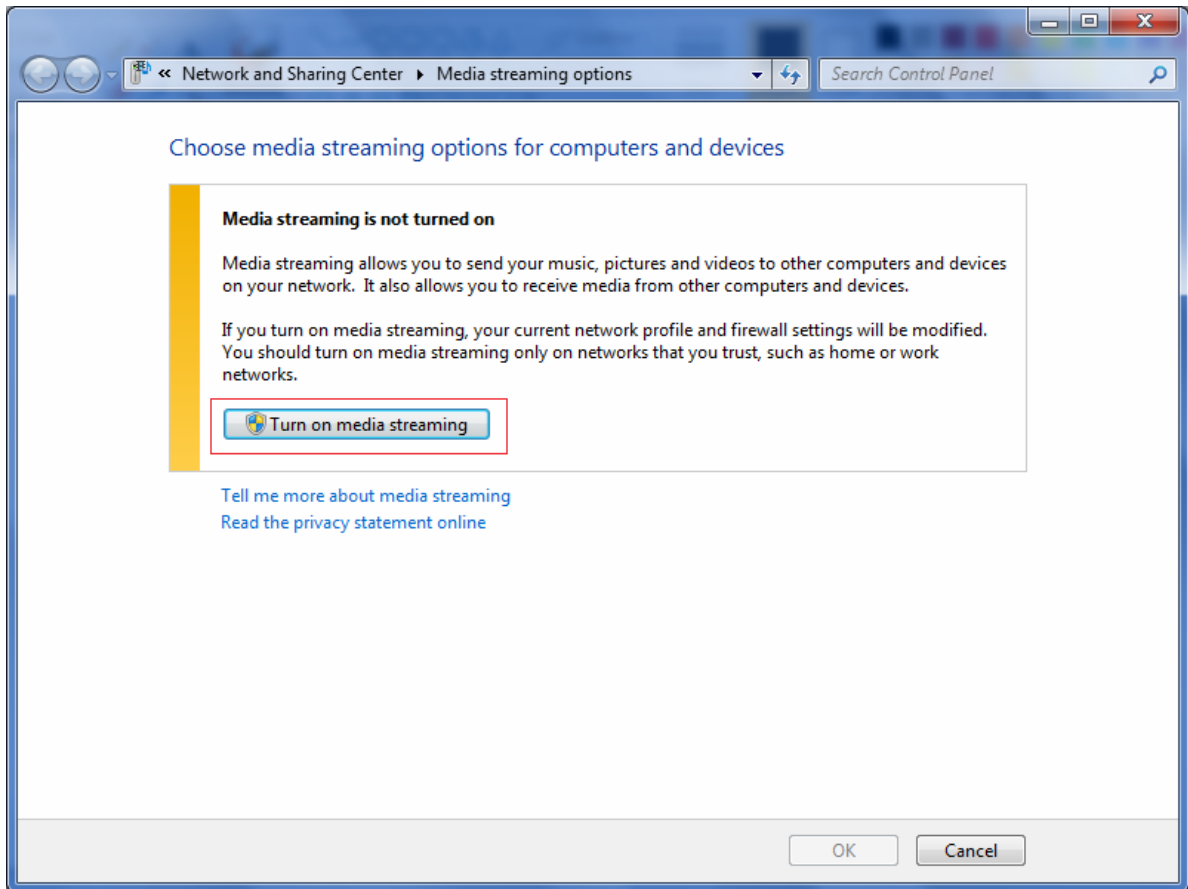
Connect to this product via wire or wireless.



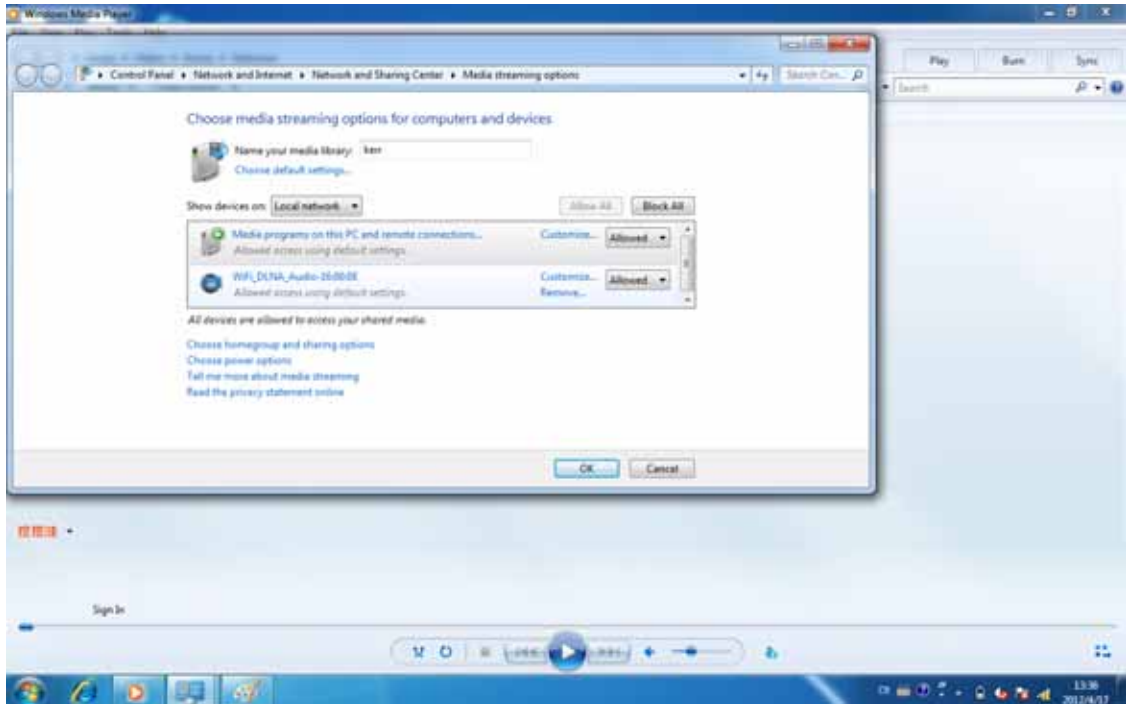
Start Windows Media Player then click “Turn on media streaming” from “Stream” in menu.



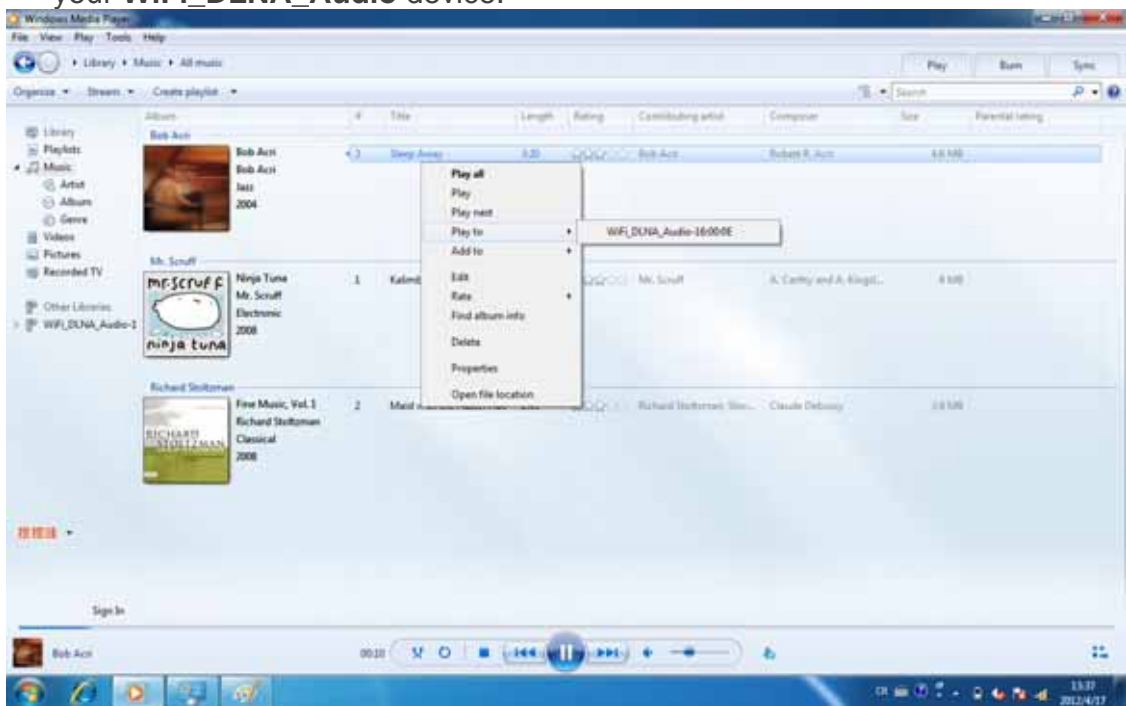
Click "Turn on media streaming" button.



Select “All networks” from “Show device on:” and make sure “**WiFi\_DLNA\_Audio**” is selected as “Allowed” then click OK button to finish setting. After finished setup, you can stream media content to DMR device direct.



Music streaming: Go to Music Library then right-click on photo file you want to stream. Then select **WiFi\_DLNA\_Audio** device from menu list of Play to. After that, the music is streamed on your Home audio system which connected with your **WiFi\_DLNA\_Audio** device.



**Appendix: The difference of DLNA and Bluetooth Audio**

The difference of DLNA and Bluetooth Audio		
Solution Feature	DLNA	Bluetooth
Transmission medium	Operates through regular network, can be any kind of Wi-Fi or Ethernet. Wi-Fi is 2.4GHz with rates reaching 150MBits/s (802.11n 1T1R capable on DLNA module).	RF 2.4 GHz only
Transmission distance	No limit. As soon as there is a network (can be mixed, Wired and Wireless) DLNA can operate. If we take the most simple connection : Regular Wi-Fi Access point + DLNA module, the in house range can be easily 30 to 40m even with walls between both devices.	Several meters depending on the Bluetooth transmitter/receiver RF power. Stops working as soon as one wall is between both devices. Audio quality becomes very poor with distance.
Power Consumption	DLNA module total average power consumption during operation (Wi-Fi connected and Audio playing) is less than 1W. Connected idle mode power is around 700mW.	Depends on the Bluetooth IC, comparable with Wi-Fi.
Audio quality and Parameter	Allows all audio CODECs, sample rates from 8KHz to 96KHz and audio resolution up to 24 bits. Lossless audio formats are compatible with DLNA. All playback information is exchanged (Title, Artist, Album Artwork, Duration, ...)	Fixed SBC or MP3 CODECs depending on both devices common capabilities. Lossy audio formats, and worse, transmission delay is introduced due to streamer/receiver distance and link quality calculation.
Other points	--Allows discovering Music on network DMS (PC or NAS), internet music content such as web radios or premium music content. --Allows DMR/DMS simultaneous discovery and use from several devices (DMC) --When you turn off you phone or leave the room or receive a call,	--Only shares the content from the phone to the Bluetooth system. Only one simultaneous connection allowed. --When you turn off you phone or leave the room or receive a call, no more music playback possible.

	the music playback can continue.	
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