Realtek HD Audio with DTS Operation Guide

1.   Introduction to DTS (Digital Theater Systems)

DTS (Digital Theater Systems) is a multi-channel digital surround sound format to bring you a new class of entertainment experience. DTS makes audio tracks more closely match the original master recording than other digitally encoded soundtracks. Coupled with the multi-dimensional benefit of surround sound technology, the audio quality of DTS-format soundtracks and music mixes dramatically improves content.
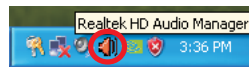
2. Enabling DTS Function

Please read below procedures carefully before you enable DTS function according to the OS you install.
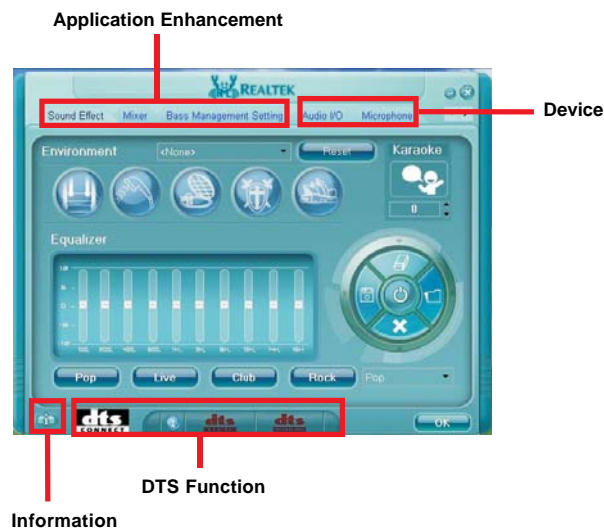
2.1. For Windows XP / XP 64-bit

a. After installing Realtek Audio driver from our support CD, reboot your system, and you will find "Realtek HD Audio Manager" icon on Windows task bar.

b. Right-click "Realtek HD Audio Manager" icon. Click "Sound Manager".
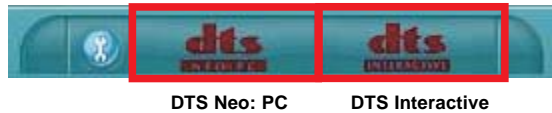

c. You will find Realtek HD Audio Manager main page on the screen.

On the bottom of Realtek HD Audio Manager. You can find that the DTS Connect contains 2 elements: **DTS Neo: PC** and **DTS Interactive**. Click the button to enable or disable it.

       DTS Neo: PC   **DTS Interactive**

DTS Neo: PC
DTS Neo: PC turns your stereo audio (WMA, MP3, CD and more) into a convincing 7.1-channel audio experience.

DTS Interactive
DTS Interactive provides a single cable connection to your DTS enabled surround sound system. Your stereo or multi-channel (up to 5.1) audio sources are re-encoded into a DTS audio signal and sent out from your PC to any DTS enabled system such as, powered PC speakers, an A/V receiver or any other DTS compatible surround sound system.

If you select **DTS Neo: PC**. You can click the   icon (Detail Settings) to access advanced controls.

     Music Mode Cinema Mode

Music Mode

The music mode is for use with any stereo music recordings, which preserves the integrity of the stereo mix while augmenting it with a center channel to anchor the image, and deriving enough surround content to yield a spacious, three-dimensional listening experience. The Music mode includes the control that allows the sound to be tailored to room layout and personal preferences.

Cinema Mode

The Cinema mode is for use with stereo television shows and all programs encoded in DTS Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 7.1-channel sound.

d. You may adjust Realtek HD Audio Manager by clicking the buttons on the top of the page.

Sound Effect:
Allows you to set your listening environtment, adjust the equalizer, set the karaoke, or select pre-programmed equalizer settings for your listening pleasure.

Mixer:
Allows you to configure audio output (playback) volume and audio input (record) volume.

Bass Management Setting:
Allows you to adjust your required decibel and foot (length) between you and the bass. The circle in the middle represents your location.
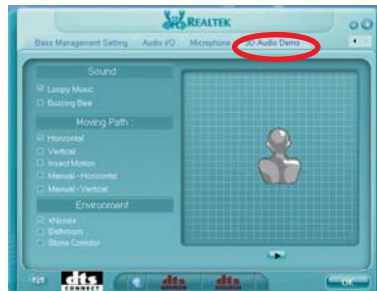
Audio I/O:
Allows you to configure your input/output settings.

Center / Subwood

Side Speaker Out

Line In for 2/4/6 Channel;
Rear for 8 Channel

Front Speaker Out

MIC

Please be noticed that the Line In (blue) port is for 2/4/6 channel. If you use 8 channel, the blue port function will be rear speaker.

Microphone:
Allows you to configure your input/output settings and check if your audio devices are connected properly .

3D Audio Demo:
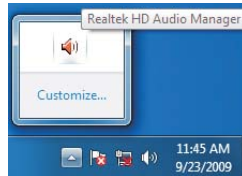3D Audio Demo gives a demondtration of the
3D audio feature.

e. Click the information button to display information about the audio driverversion,
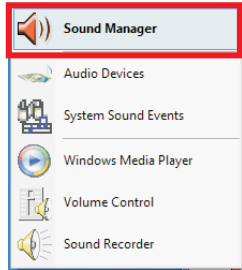DirectX version, audio controller, audio codec, and language setting.

2.2.   For Windows Vista / Vista 64-bit / 7 / 7 64-bit

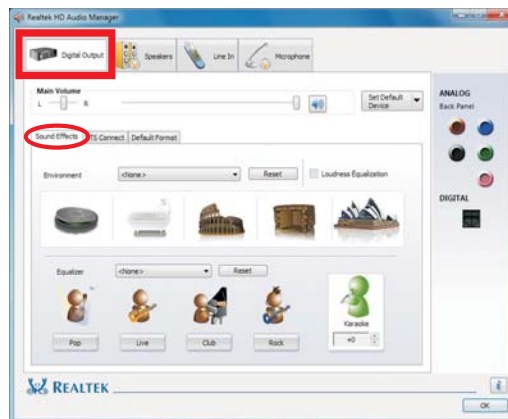a. Find the "Realtek HD Audio Manager" icon on Windows task bar.

b. Right-click "Realtek HD Audio Manager" icon. Click "Sound Manager".

c. You will see the main page of "Realtek HD Audio Manager". There are four main selection on the top of this page: Digital Output, Speakers, Line In and Microphone.
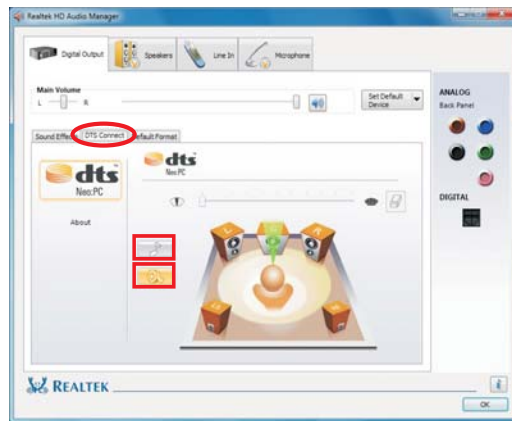
Digital Output
"Digital Output" button is for digital audio output (S/PDIF). You may click "Sound Effect" button to set your listening environtment, adjust the equalizer, set the karaoke, or select pre-programmed equalizer settings for your listening pleasure.
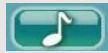
You may click "DTS Connect" button to choose your required DTS mode.
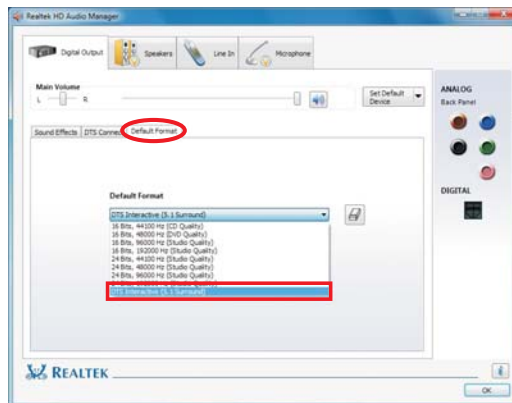

Music Mode

The music mode is for use with any stereo music recordings, which preserves the integrity of the stereo mix while augmenting it with a center channel to anchor the image, and deriving enough surround content to yield a spacious, three-dimensional listening experience. The Music mode includes the control that allows the sound to be tailored to room layout and personal preferences.
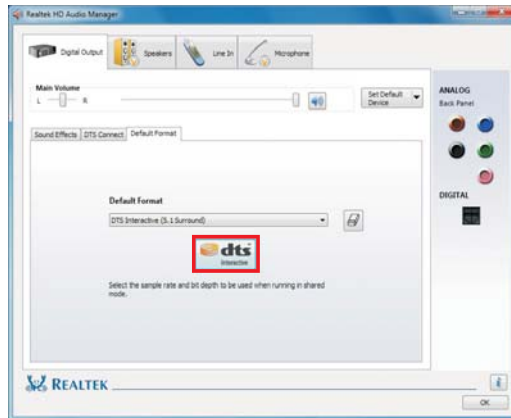
Cinema Mode

The Cinema mode is for use with stereo television shows and all programs encoded in DTS Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 7.1-channel sound.

You may click "Default Format" button to choose your required output format.
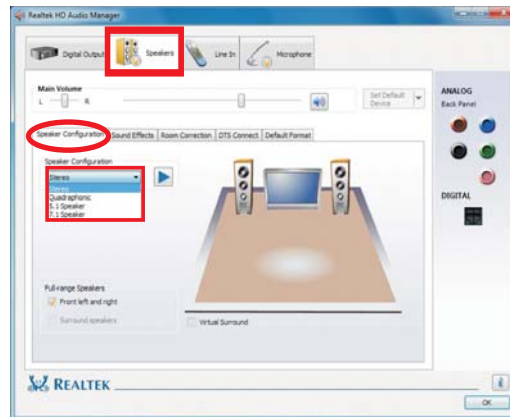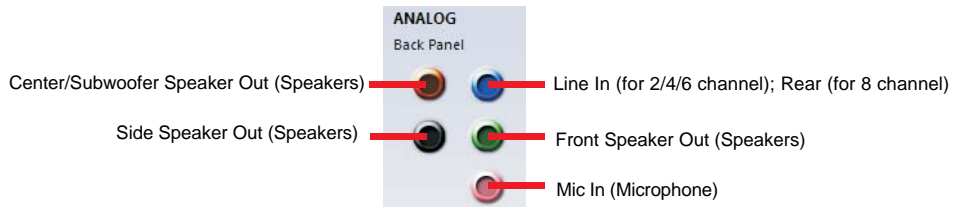
If you want to choose "DTS Interactive (5.1 Surround)". You can just click the
logo of "DTS Interactive" in the middle.

Speakers

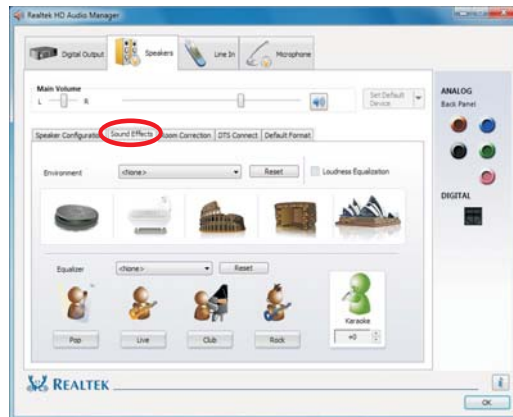"Speakers" button is for you to choose the analog output setting. You may
click "Speaker Configuration" button to choose the output channel.

ANALOG
Back Panel

Center/Subwoofer Speaker Out (Speakers) ———— Line In (for 2/4/6 channel); Rear (for 8 channel)

Side Speaker Out (Speakers) ———— Front Speaker Out (Speakers)

Mic In (Microphone)

Please be noticed that the Line In (blue) port is for 2/4/6 channel. If you use 8 channel, the blue port function will be rear speaker.

You may click "Sound Effect" button to set your listening environtment, adjust the equalizer, set the karaoke, or select pre-programmed equalizer settings for your listening pleasure.
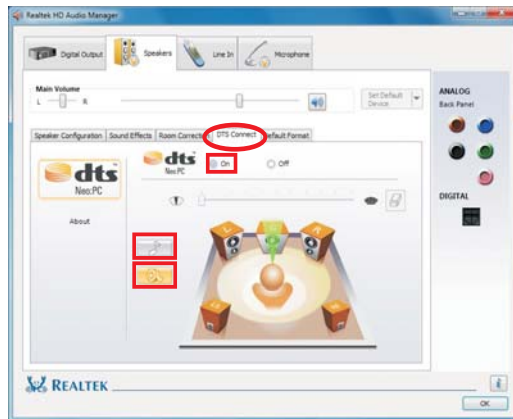
You may click "Room Correction" to adjust your required decibel and foot (length) between you and the bass. It compensates your room characterics. You can adjust the distance and gain of each speakers after you enable this feature.
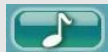
You may click "DTS Connect" to enable DTS function and choose your required DTS mode.

Music Mode

The music mode is for use with any stereo music recordings, which preserves the integrity of the stereo mix while augmenting it with a center channel to anchor the image, and deriving enough surround content to yield a spacious, three-dimensional listening experience. The Music mode includes the control that allows the sound to be tailored to room layout and personal preferences.
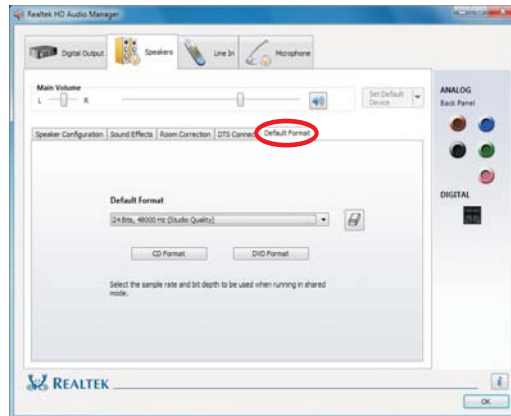
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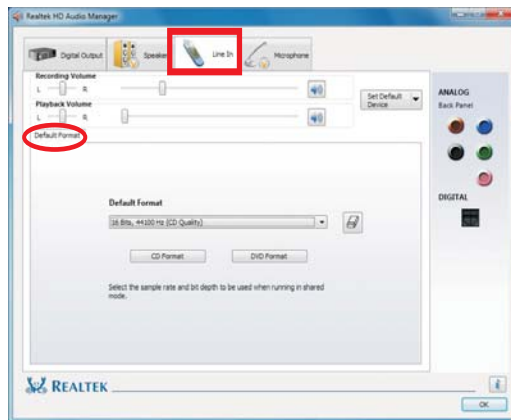
You may click "Default Format" to select the sample rate and bit depth to be used when running in shared mode.
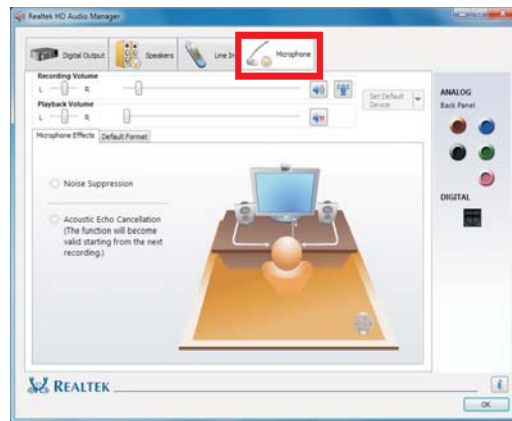

Line In

"Line In" button is for you to adjust the input format.

Microphone

"Microphone" button is for you to configure your input/output settings and check if your audio devices are connected properly. You may adjust the recording volume and playback volume, or "Microphone Effect" and "Default Format".

d. Click the information button to display information about the audio driverversion, DirectX version, audio controller, audio codec, and language setting.