GC-PTV-TAF

Digital Theater Hybrid TV Card

User's Manual

Rev. 101

12MD-PTVTAF-101R

Declaration of Conformity

We, Manufacturer/Importer
(full address)

G.B.T. Technology Trading GMbH
Ausschlager Weg 41, 1F 20537 Hamburg, Germany

declare that the product
(description of the apparatus, system, installation to which it refers)

TV Card
GC-PTV-TAF

is in conformity with
(reference to the specification under which conformity is declared)
in accordance with 89/336 EEC-EMC Directive

□ EN 55011	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) high frequency equipment	☒ EN 61000-3-2 Disturbances in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"
		☒ EN 61000-3-3
□ EN 55013	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment	☒ EN 55024 Information Technology equipment-Immunity characteristics-Limits and methods of measurement
□ EN 55014-1	Limits and methods of measurement of radio disturbance characteristics of household electrical appliances, portable tools and similar electrical apparatus	□ EN 50082-1 Generic immunity standard Part 1: Residual, commercial and light industry
		□ EN 50082-2 Generic immunity standard Part 2: Industrial environment
□ EN 55015	Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and luminaries	□ EN 55014-2 Immunity requirements for household appliances tools and similar apparatus
□ EN 55020	Immunity from radio interference of broadcast receivers and associated equipment	□ EN 50091-2 EMC requirements for uninterruptible power systems (UPS)
☒ EN 55022	Limits and methods of measurement of radio disturbance characteristics of information technology equipment	
□ DIN VDE 0855 □ part 10 □ part 12	Cabled distribution systems; Equipment for receiving and/or distribution from sound and television signals	
☒ CE marking		(EC conformity marking)

CE

The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC

□ EN 60065	Safety requirements for mains operated electronic and related apparatus for household and similar general use	□ EN 60950 Safety for information technology equipment including electrical business equipment
□ EN 60335	Safety of household and similar electrical appliances	□ EN 50091-1 General and Safety requirements for uninterruptible power systems (UPS)

Manufacturer/Importer

(Stamp)

Signature: *Timmy Huang*

Date: Oct. 31. 2005

Name: Timmy Huang

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)

FCC

Responsible Party Name:G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street

City of Industry, CA 91748

Phone/Fax No:(818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: TV Card

Model Number: GC-PTV-TAF

Conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109
(a).Class B Digital Device

Supplementary Information:

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 and (2) this device must accept any inference received, including that may cause undesired operation.

Representative Person's Name: ERIC LU

Signature: *Eric Lu*

Date: Oct. 31, 2005

Copyright

Disclaimer of Liability

For more product information, visit http://www.gigatyte.com.tw

Notices prior to Installation

This TV card is composed of many delicate integrated circuits and other components. These integrated circuits are subject to static electricity. Please make sure of the following preparation before installation:

1. Power off the computer and remove the power plug.
2. Avoid contacting the metal leads when holding the TV card. It is recommended to wear a wrist strap.
3. Before installation, place the TV card on an anti-static mat or inside an anti-static bag.
4. Prior to installation, check if there is any obvious damage to the card package. Proceed to install the card after the verification.

Table of Contents

1. Introduction

1.1. Overview

Congratulations on purchasing GIGABYTE's Digital Theater Hybrid TV Card. With this high quality TV card and the included Power Cinema 4.0 software, you can turn your computer into a multimedia entertainment center. GIGABYTE's Digital Theater Hybrid TV Card allows you to watch digital (DVB-T) or analog TV programs, turn your computer into a digital recorder/player, watch DVD/VCD movies, listen to FM radio programs and MP3 music files, play back movie files of various formats, and even view your digital photos.

1.2. Features

a. Watch high quality digital TV (DVB-T)
b. Watch high quality analog TV (supports world-wide systems NTSC/PAL/SECAM)
c. FM radio receiver
d. Top quality hardware
   - Full functionality multimedia remote control - all functions can be executed by remote control
   - Plug and Play USB remote control receiver
   - High-performance Digital TV antenna - better signal reception and broader frequency bands (both VHF and UHF)
   - Compact/low profile design - can be used for consumer electronics cases
e. Universal compatibility
   - Supports world-wide SAP and Stereo sound
   - Supports the European Teletext system
   - Supports 'S-video in', 'Composite in' and 'Audio in' - can connect to VCR or DVD player
f. PowerCinema 4.0 - full functionality
   - Instant or scheduled TV program recording
   - Make DVD - Burn your recorded TV program into DVD disc (DVD burner required)
   - TV Time Shift viewing - Pause the Live TV programs or go back to the previous section without missing a second
   - Capture snapshots of TV images
   - Enjoy FM radio
   - Enjoy music - play a range of music format, such as .wav .mp3 .wma
   - Watch high quality DVD/VCD movies
   - Play a range of video format, such as .mpg .dat .avi
   - Enjoy photo slide shows
   - 10 foot user interface - easy to control in 10 foot distance
   - Supports 9 languages (English, Traditional Chinese, Simplified Chinese, Japanese, Korean, German, Spanish, French and Italian)

1.3. Advanced Features

a. Time-Shifting
    When you watch TV with the Time-Shifting function turned on, the Time-Shifting function will automatically record the current program in the computer's hard disk[(Note1)]. You can still pause or rewind on the current channel, however, if you switch to another channel, the computer will erase the previously recorded content and start recording the programming on the new channel.

b. EPG
    EPG (Electronic Program Guide) is increasingly available with digital TV programming. If your digital TV service includes EPG, you can display the program lists of all channels by simply pressing the info/EPG button on the remote control. In addition, you may use the program lists to select the program that you want to set up a scheduled recording for, instead of manually setting the recording details.

c. TeleText
    Teletext is available only for European analog TV systems and is a TV-based multicolor text information service with multiple pages and a search mode. It contains information such as weather forecast, news, traffic information, etc ¡Κ

d. Scheduled recording
    In the TV or radio menu, click [Schedule] and select the [TV] or [Radio] program to record. Click [New Schedule] to schedule another recording. After the setup, press the power button on the remote control for the computer to enter standby mode.

e. SAP/stereo sound mode
    Enter the TV [Signal Settings] menu and change the setting of [Capture Device] to **713x BDA Analog Capture**. Then select the SAP or stereo sound mode for the audio option.

f. External DVD or VCR input support
    Before connecting the external DVD or VCR device, make sure that the output (S-video or Composit[(Note2)] video output and audio output) of your DVD player is connected to the connector on the TV tuner card correctly. Start Power Cinema 4.0 and enter the TV function. Click [Settings] > [Signal Settings] > [Capture Device], and change the setting to **713x BDA Analog Capture**. Then click [Settings] > [Signal Settings] > [Capture Source], and select **S-video** or **Composite** for the input.

(Note 1) The recording time limit for using the Time-Shifting function is 30 minutes.
(Note 2) Composite signals are AV signals.

2.   Installation

2.1.   System Requirements

- Intel Pentium® 4 1.8GHz (or higher) processor
  (For the Time-Shifting function, Pentium® 4 2.4GHz (or higher) processor is recommended.)
- One open PCI slot
- 256MB system memory (recommend 512MB or more)
- Graphics card (supporting Microsoft® DirextX® 9.0 or update)
- Sound card
- DVD/CD ROM (for watching DVD/VCD movies), require DVD/VCD burner to execute "burn to DVD/VCD" function
- 1GB free hard disk space is recommended for the Time-Shifting function.
- Windows® XP Service Pack 1 or update
- Microsoft® DirextX® 9.0 or update

2.2.   Package Contents

High Quality Hybrid TV Card

Stereo Audio Cable

F Type to IEC Type Adaptor
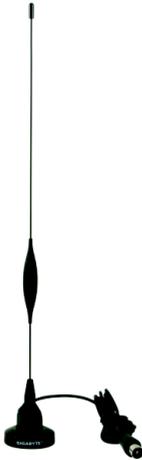
Digital TV Antenna

Full Functionality Remote Control and USB Receiver

Toshiba AAA Battery x 2

FM Antenna

Installation CD

User's Manual

2.3. Components

2.3.1. Connectors

FM signal input

S-video input

TV signal input
(DVB-T digital signal / analog signal)

AV (Composite) input

Stereo sound input

PCI interface

2.3.2. Devices to Connect

FM signal input

S-Video input

DVB-T digital signal input

TV signal input

NTSC — analog signal input

PAL or SECAM — analog signal input

AV (Composite) input
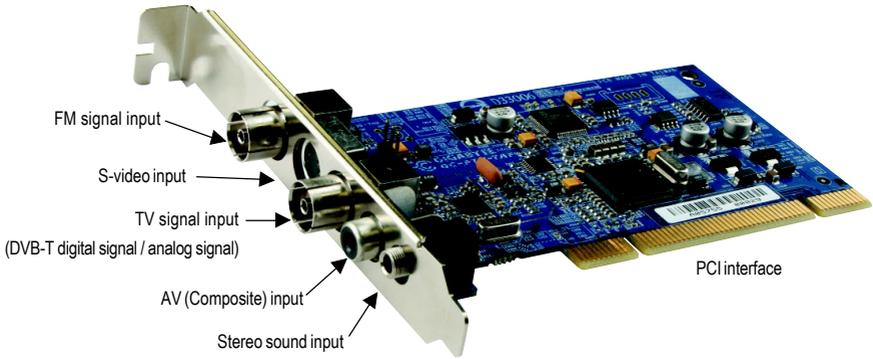
Stereo sound input
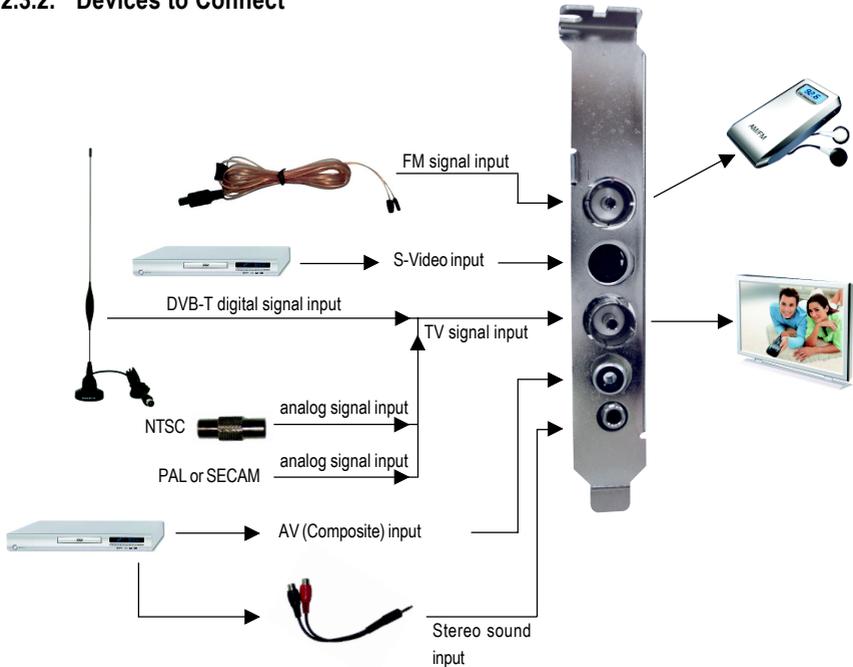
2.4.   Hardware Installation
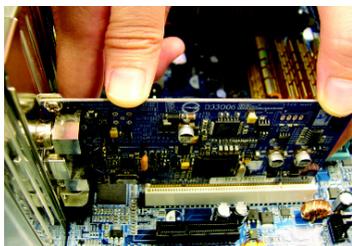
Step 1.
Take the TV card out of the anti-static bag, and carefully, firmly insert the TV card into the PCI slot.

Step 2.
Secure the TV card to the computer chassis with screws, and then replace the computer case.

Step 3.
Connect the FM antenna, digital TV antenna and stereo sound cable to the TV card. (See the "Components" section previously for the connector information.) Connect the USB receiver[Note 1] for the remote control to a USB port on your computer.

Step 4.
Extend the FM antenna and digital TV antenna, and place them on a location with better signal reception[Note 2].

The hardware installation is then completed!
Now you can connect the computer to an electrical outlet and power on the computer. Follow the instructions in the next section for driver and software installation for the TV card.

(Note 1) Please place the receiver at a location where remote control signals are available.
(Note 2) Find a location in your house where can get the best reception. The digital TV signals are transmitted via a ground-based transmitter. Please place the antenna near the window and away from sheltering buildings as possible as you can for better signal reception.

2.5. Software Installation

It's easy to install the driver and software of the TV card. When you place the supplied Installation CD into the CD-ROM drive of your computer, the AUTORUN screen will appear. If the screen does not appear, you can run "D:\TVCard.exe"(D stands for the CD-ROM drive) to display the screen. Then follow the on-screen instructions to install the driver and software with ease.

2.5.1. Driver Installation

After installing the TV card and powering on the computer, Windows will automatically detect the new hardware device and a dialog box "Add New Hardware Wizard" will appear. Click **Cancel** on the dialog box. Place the supplied Installation CD into the CD-ROM drive of the computer, and install the driver from the AUTORUN screen. (If the AUTORUN screen does not appear, you can run "D:\Drv\Setup.exe" to start the installation.)

1. Click "Driver."

2. Click "Next" to start the driver installation.

3. Click "Finish" to restart the computer to complete the driver installation.

2.5.2. PowerCinema 4.0 Installation

Place the supplied Installation CD into the CD-ROM drive of the computer, and the AUTORUN screen appears. If the screen does not appear, you can run "D:\TVCard.exe" to display the screen. (If the AUTORUN screen does not appear, you can run "D:\PCinema\Setup.exe" to start the installation.)
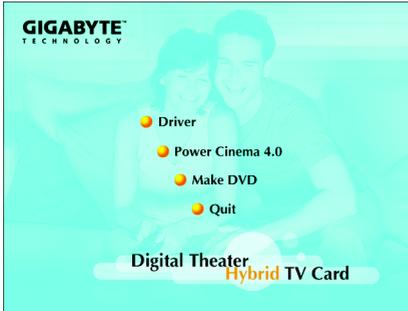
1. Click "Power Cinema 4.0."

2. Select the desired language to install, and click "OK."
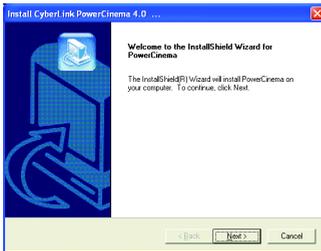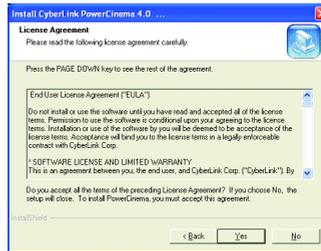
3. Click "Next."

4. Click "Yes" after reading the license agreement.
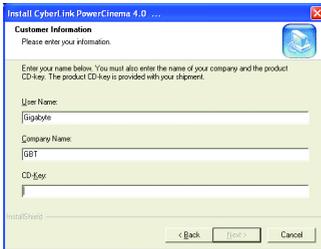
5. Enter your name, company name and product CD-key, and then click "Next."
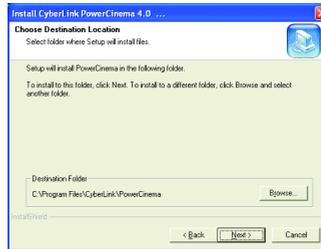
6. Select the destination folder for the installation, and click "Next."
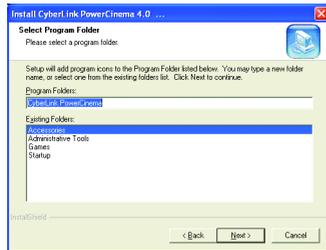
7. Select and enter the program folder's name, and click "Next."
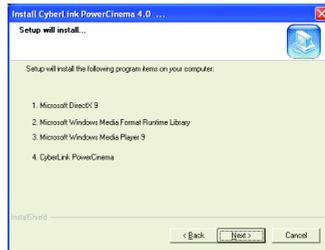
8. Click "Next" to start the installation.
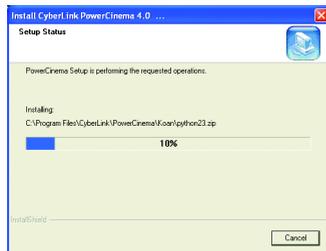
9. The installation of Power Cinema is in progress.

10. Click "Finish" to complete the installation of Power Cinema.

2.5.3. MakeDVD Installation

Place the supplied Installation CD into the CD-ROM drive of the computer, and the AUTORUN screen will appear. If the screen does not appear, you can run "D:\TVCard.exe" to display the screen. (If the AUTORUN screen does not appear, you can run "D:\MkDVD\Setup.exe" to start the installation.)
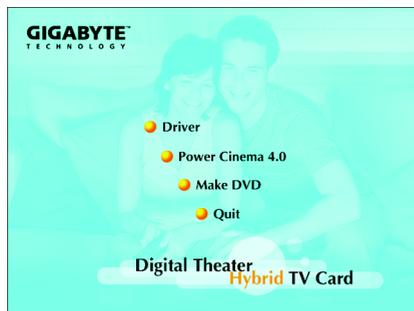
1. Click "Make DVD."

2. Select the desired language to install, and click "OK."
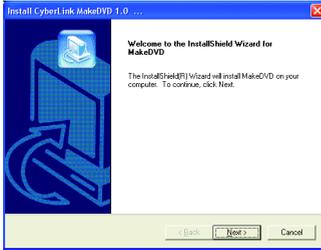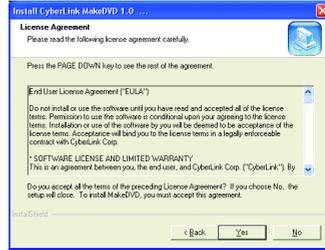
3. Click "Next."

4. Click "Yes" after reading the license agreement.
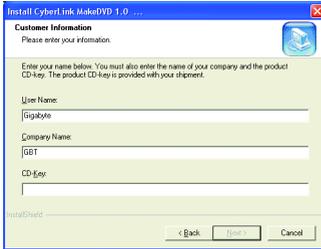
5. Enter your name, company name and product CD-key, and then click "Next."
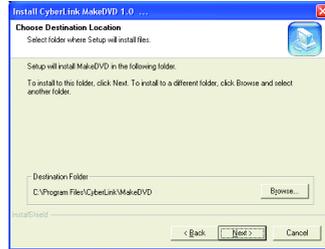
6. Select the desired folder for the installation, and click "Next."
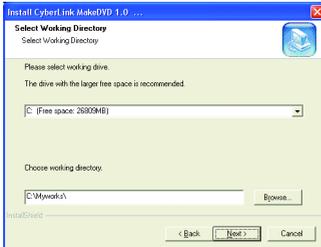
7. Select and enter the directory for "MakeDVD", and click "Next."
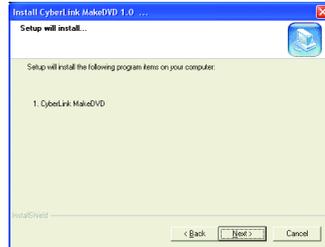
8. Click "Next" to start the installation.
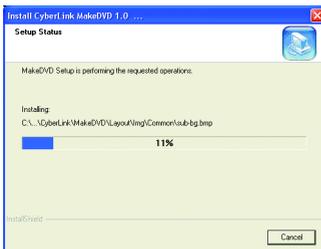
9. The installation of MakeDVD is in progress.
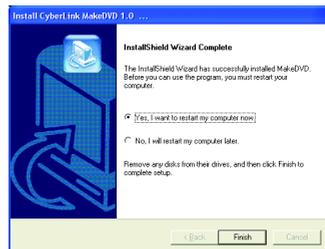
10. Click "Finish" to complete the installation of MakeDVD.

3. Operation Instructions

3.1. Remote Control

- Full functionality multimedia remote control -
Congratulations on possessing this full functionality multimedia remote control by GIGABYTE's special design. With this remote control, you need not to sit by the desk and operate on the mouse and keyboard any more. You can perform all multimedia functions via the remote control, and really enjoy watching TV while lying on the sofa or in bed.

The functions of the remote control can be divided into 4 sections:

❶ Quick Key section -
Press the DVD/VCD, LiveTV, Radio, Music, Pictures and Videos buttons on any screen to start the corresponding function.

❷ Multimedia section -
This section provides different operations for different functions. For example, use this section as movie control buttons for the DVD/VCD function, and use it to operate the time-shifting feature for the LiveTV function.

❸ TV Channel Selection section -
Just like using the common TV remote controls, this section allows you to select channels. The Jump button switches between two channels.

❹ Navigation section -
Use the direction buttons to easily and intuitively navigate through the menus.

The supplied USB receiver(Note) for the IR remote control is a plug-and-play device. Simply connect the USB receiver to a USB port on your computer. No setting is required.

(Note)   Please place the receiver at a location where remote control signals are available.

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- Control panel of the full functionality multimedia remote control -

Power indicator (flashing when any button is pressed)

Power (entering or waking up from the Standby mode)

Entering the "DVD/VCD" function

Entering the "Videos" function

Entering the "Music" function

Entering the "Pictures" function

Stop

Record

Pause

Play

Rewind

Forward

Replay

Skip to the end

Returning to the previous page

Displaying playback or EPG information during playback of TV programs or movies

Confirming the selection

Direction buttons

Starting or closing "PowerCinema"

Increase volume

Previous channel

Decrease volume

Next channel

Mute

Entering the "DVD menu" (displaying the main menu during playback of a DVD disc)

Watching live TV programs

Starting the Teletext function

Entering the "Radio" function

Switching back to the previous channel

Enter

- Buttons of the full functionality multimedia remote control -

Button	Mode					
	T V	**Movie**	**Videos**	**Music**	**Pictures**	**Radio**
Start Starts/closes PowerCinema, or returns to the home page						
(Live TV) Enters the live TV mode						
(DVD/VCD) Enters the DVD/VCD function						
(DVD Menu) Enters the DVD menu						
(Videos) Enters the Videos function						
(Music) Enters the Music function						
(Pictures) Enters the Pictures function						
(Radio) Enters the Radio function						
(Teletext) Starts the Teletext function						
(STOP)	Stop	Stop	Stop	Stop	Stop	Stop
(RECORD)	Record	-	-	-	-	Record
(PAUSE)	Pause	Pause	Pause	Pause	-	-
	Play	Play	Play	Play	Play	Play
(REW)	Rewind	Rewind	Rewind	Rewind	Rewind	Rewind
(FWD)	Forward	Forward	Forward	Forward	Forward	Forward
(REPLAY)	Previous	Previous	Previous	Previous	Previous	Previous
(SKIP)	Next	Next	Next	Next	Next	Next
(BACK)	Back	Back	Back	Back	Back	Back
(Info/EPG) Displays the playback or EPG information during playback of TV programs or movies						

Button	Mode					
	TV	**Movie**	**Videos**	**Music**	**Pictures**	**Radio**
(Up)	Up	Up	Up	Up	Up	Up
(Down)	Down	Down	Down	Down	Down	Down
(Left)	Left	Left	Left	Left	Left	Left
(Right)	Right	Right	Right	Right	Right	Right
OK	Confirms selection	Confirms selection	Confirms selection	Confirms selection	Confirms selection	Confirms selection
(VOL)	Increases volume	Increases volume	Increases volume	Increases volume	Increases volume	Increases volume
(VOL)	Decreases volume	Decreases volume	Decreases volume	Decreases volume	Decreases volume	Decreases volume
(Mute)	Mute	Mute	Mute	Mute	Mute	Mute
(CH/PG)	Previous channel	Previous channel	-	-	-	-
(CH/PG)	Next channel	Next channel	-	-	-	-
0 ~ 9	0 ~ 9	0 ~ 9	0 ~ 9	0 ~ 9	0 ~ 9	0 ~ 9
(Jump)	Jumps to the previous channel	-	-	-	-	-
(Enter)	Enter	Enter	Enter	Enter	Enter	Enter

3.2. Software Overview

PowerCinema 4.0 is an application that integrates multimedia playback functions and supports 9 languages(Note). The clear and user-friendly interface allows you to control the entertainment effects from a variety of multimedia resources.

3.2.1. Starting PowerCinema

There are 3 methods to start PowerCinema:

a. Click [Start] > [All Programs] > [CyberLink PowerCinema] > [PowerCinema] to start the program. (See the illustration to the right.)

b. Double-click the [icon] icon from the desktop to start the program.

c. Press the [button] button on the remote control to start the program.

- PowerCinema Window -

Returns to the home page
Returns to the previous page

Closes the program
Maximizes the window
Minimizes the window

Media and application setting menu

Playback control panel (operation with a mouse required)

Thumbnail view of the current playback
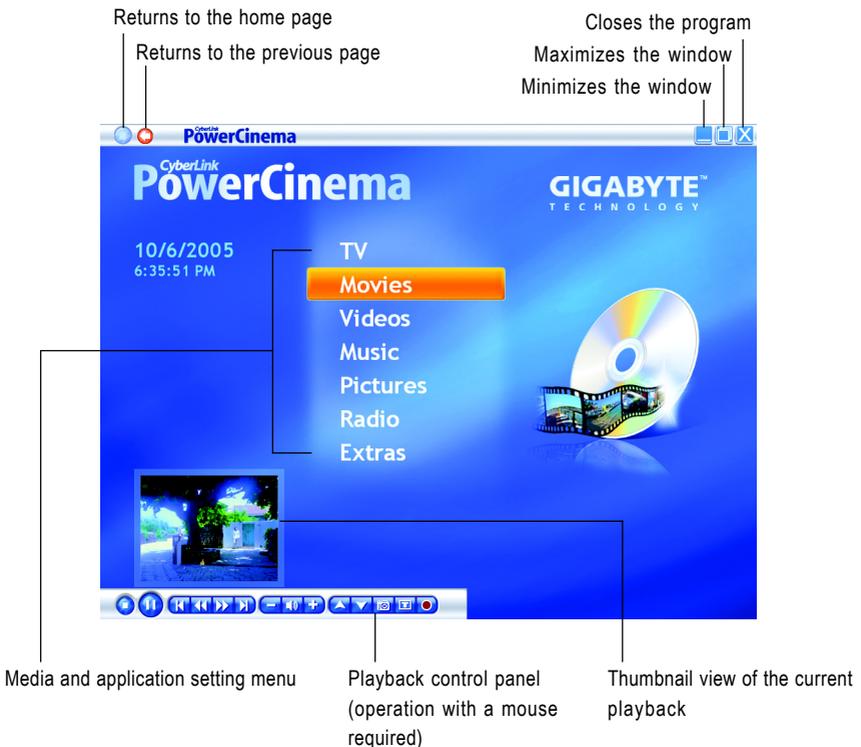
(Note) Supporting English, Traditional Chinese, Simplified Chinese, Japanese, Korean, German, Spanish, French and Italian.

3.2.2. TV

This function allows you to watch TV on the computer. You can watch live TV programs, set up scheduled recordings and watch the recorded TV programs.

Watching TV (Note 1)

You can use the remote control or playback control panel to perform the playback functions.

Playback control panel: (operation with a mouse required)

Stop, stops playback

Pause, pauses playback

Rewind

Forward

Start, starting point skips to the beginning of the live replay

End, ending point skips to the ending of the live replay

Volume down, decrease volume

Mute

Volume up, increase volume

Channel up, switches up one channel

Channel down, switches down one channel

Snapshot (Note 2), takes a snapshot of the current frame of video

TeleText, displays TeleText information

Record, records TV content as a video file

[Live TV] Watches current TV broadcasts.

[Recorded TV] Displays files recorded from the TV. A thumbnail image shows the first frame of the file. Select a recorded TV file to play it at full screen. To return to the TV page, select **Stop**.

• Sort by... To change the order in which items are displayed.

[Schedule] Displays all current recording schedules.

To set a recording schedule, select **New Schedule**. (Make sure that **TV** is selected.) In the page that opens, select the Channel you want to record, the Scheduling Interval, and the recording date and times. Select **Apply** to activate the recording schedule, or **Cancel** to quit without accepting the schedule. Select an existing recording schedule to open it for modification. Select **Delete** to remove a recording schedule you have previously created.

(Note 1) Before watching TV, first make sure that the channel scanning has been performed. If TV channels have not been scanned, click [Settings] > [Channel Settings] > [Scan Channels].

(Note 2) To use the Snapshot function, a mouse is required.

[TV Preview] Displays a wall of thumbnails, giving you a preview of all available channels. The TV Preview scrolls automatically through all of the available channels. Select a thumbnail to watch the corresponding channel.

[Program Guide] Lists available programs by channel and time.

[Find Program] Allows you to find a specific TV program.

- Sort by... To change the order in which items are displayed.

Time-Shifting

By default, the Time-Shifting function is enabled[(Note 3)] in PowerCinema. PowerCinema records the TV broadcast as a file, creating a slight lag between the broadcast and the TV content that you watch. You can navigate forward and backward to create an instant replay or to skip over commercials.

TeleText [(Note 4)]

When you select the **TeleText** button, the TeleText page opens, displaying listings with different kinds of information. To navigate within the TeleText function, use the remote control buttons or the playback control buttons.

Select the **TeleText** button to scroll through the TeleText, transparent (TeleText+TV), and Live TV pages. Press the **Backspace** button on the keyboard or the **BACK** button on the remote to return to the main TV page.

When you use the TeleText function, the following special controls are added to the pop-up control panel: **Red** (opens TeleText pages marked in red), **Green** (opens TeleText pages marked in green), **Blue** (opens TeleText pages marked in blue), **Yellow** (opens TeleText pages marked in yellow). You can also use the corresponding buttons on the remote to perform the same functions.

Previous Page (jumps back one page), **Next Page** (jumps forward one page), **Previous SubPage** (jumps back one subpage), **Next SubPage** (jumps forward one subpage), and **Snapshot** (captures the TeleText screen in BMP format).

TV Settings

TV settings are organized into the following topics: Signal Settings, Channel Settings, Recording Settings, and Guide Settings. **Restore Default Settings** returns all of the settings in PowerCinema to their original values.

- Signal Settings -
  Signal Type allows you to set your TV signal as **Digital** or **Analog**. In the **TV Source** option, select if your TV receives signals from an antenna or a cable. The **Region** option allows you to select the country or region where your cable provider is located. **Audio** allows you to set your audio output. Options depend on your TV's signal type, but may include **Mono**, **Stereo**, or the enhanced signals **Dual A**, **Dual B**, or **Dual AB** that augment the main audio, provide an audio translation, or offer other information. Set the **Enable Time-Shifting** option to **Yes** to be able to watch instant replays.

(Note 3) At least 1GB free hard disk space is required for the Time-Shifting function, and the time limit for a Time-Shifting recording is 30 minutes.

(Note 4) Teletext is available exclusively for European analog TV systems.

- Channel Settings -

  If no channel list exists, click **Scan Channels**. Your computer will scan and list the available TV channels. To disable a channel in the list, select it, then choose **Deselect**. Disabled channels are not available for watching when you return to the TV page.

  To rename a channel in the list, select it, choose **Rename**, then enter the new name. If you modify any settings on this page, you must select **Apply** for these changes to take effect.

- Recording Settings -

  The **Recording Quality** option allows you to set the quality of video recorded from TV. Selecting a higher quality results in a larger recorded file. **Recording Destination** allows you to set the destination where files recorded from TV are saved.

- Guide Settings -

  Select **EPG Source** to indicate if you want to use **NextView** or the **Internet** as your source of EPG (electronic program guide) information. Select your EPG provider from the EPG Provider list. If no list of EPG providers exists, select **Scan Providers**. Your computer will scan and list all available providers.

3.2.3. Movies

You can play movies on disc in PowerCinema's Movies function. This function has the features and controls of a normal living-room DVD player.

Watching Movies

You can use the remote control or playback control panel to perform the playback functions.
In addition to TV function buttons, there are several new buttons on the playback control panel during playback of movies:

Main Menu, displays the disc's menu page.

Subtitles, switches among available subtitle languages

Language, switches among available overdub languages

Snapshot, takes a snapshot of the current frame of video; this function requires a mouse to use.

Angle, switches among available camera angles

When you insert a disc into your computer's disc drive, the movie begins to play automatically. If more than one disc drive with content is available, select the disc you want to watch in the content selection area.

When you press **Stop** during a movie (or access the Movies function without inserting a disc in your drive), the main Movies page appears. Functions on the left that are used to control playback include:

[Resume] Starts the movie from the point it was stopped

[Restart] Starts the movie from the beginning

[Main Menu] Displays the disc's menu page

[Eject] Opens the disc drive door

Movie Settings

- Subtitles -
  Subtitles selects the default subtitle language, when available. **Title Default** uses the original language of the disc you are watching.
- Closed Captions -
  Closed Captions determines the location of the closed captioning function. When this option is set to **Normal**, closed captions appear across the bottom of the screen. When set to **Elevated**, closed captions appear across the top of the screen.

- Audio -
  Audio selects the default language for the movie's audio track.
- Display Upon Mute -
  Display Upon Mute determines the optional display when the volume is muted. If you enable this option, you can choose to display subtitles or closed captions.
- Load Default Settings -
  Load Default Settings returns the settings on this page to their original values. If you modify any settings on this page, you must select Apply for these changes to take effect.

3.2.4. Videos

PowerCinema allows you to watch video files (in .dat, .mpg, .mpe, .mpv, .avi, .asf, .asx, .mpeg, .div, .divx, .wm, .wmv, .m1v, .m1s, .m2v, .vro, .vob, .dvr-ms, MPEG-1, and MPEG-2 formats) on your computer. (You may need to install a special driver to view .divx and .dvr-ms files.)

Watching Videos
Select a video file to play it at full screen. Use the pop-up control panel or the buttons on the remote to control playback. To return to the Videos page, select **Stop**. When you watch a video file, the following special control is added to the pop-up control panel:

Snapshot, takes a snapshot of the current frame of video; this function requires a mouse to use.

Browsing for Videos
[Sort By...] Changes the order in which items are displayed.
[My Videos] Views videos in the My Videos folder on your computer.
[Recent Videos] Displays videos that you have recently viewed.
[More Videos] View videos that are located in other folders. Browse through the drives and folders to locate the videos you want to watch.

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3.2.5. Music

The Music function allows you to listen to music files (in .asf, .mp3, .wav and .wma formats), rip Audio CDs, and even use playlists (in .asx, .m3u, and .wmp formats) to listen to your favorite songs in any order you like.

Listening to Music

You can use the remote control or playback control panel to perform the playback functions.

Select a song in a list (or a track on a CD) to listen to that individual song.

[Play] listens to a list of songs from the top.

[Shuffle] plays songs in random order.

[Repeat All] repeats a list of songs after the entire list has played.

[Recent Music] displays the most recent music that you have listened to.

To sort music, select **[Album]**, **[Artist]**, **[Playlist]**, or **[Genre]** on the left side of the music page.

[All Songs] lists all available music by song title.

Watching Visualizations

[Visualize] allows you to watch computer-generated visualizations while you listen to music. To exit the visualization, click anywhere on the screen, press **BACK** on the remote, or **Esc** or **Backspace** on the keyboard.

Using Playlists

Playlists are simply lists of songs. Using a playlist, you can sequence songs from different sources. PowerCinema allows you to use the playlists you create in Windows Media Player.

To create a new playlist in WMP 9:

1. Open Windows Media Player and select File > New Playlist...
   The New Playlist window appears.
2. Click a song to add from your Media Library. Repeat this for each song you wish to add.
3. In the Playlist window, enter a name for your playlist.
4. Click OK to save the playlist.

English is in the right margin.

Browsing for Music
To listen to music that is located in other folders, select **[More Music]**. Browse through the drives and folders to locate the music you want to listen to.

Ripping Audio CDs
To rip an Audio CD to your hard drive:
1. Display the CD's tracks in the content area.
2. Select **Rip CD**.
   - In the window that opens, select tracks for ripping. Use **Select All** or **Deselect All** to manage all tracks simultaneously. (Checked tracks are ripped, unchecked tracks are not ripped.)
3. Select **Start Ripping**. Tracks are copied into a new folder under the My Music folder and organized in PowerCinema.

Music Settings
[Default Visualization] selects the computer-generated visualizations while you listen to music.
[Default Ripping Quality] determines the file quality of songs you rip from an Audio CD.
[Search for Music] scans your computer for music files that can be played in PowerCinema.
[Load Default Settings] returns the settings on this page to their original values. If you modify any settings on this page, you must select **Apply** for these changes to take effect.

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3.2.6. Pictures

PowerCinema lets you view digital pictures (in BMP, JPEG, and PNG formats), either individually or as a slide show. You can even edit pictures to make them perfect for display.

Viewing Pictures
You can use the remote control^(Note) or playback control panel to perform the playback functions.
When viewing still pictures, the following special controls are added to the pop-up control panel:

🔍	Zoom in	🔍	Zoom out
	Pan left		Pan up
	Pan right		Pan down

To view pictures in a slide show, select the folder containing the pictures you want to view, then select **Play Slide Show**. The slide show plays at full-screen. Use the playback controls to control or quit the slide show. Selecting an individual picture displays it at fullscreen in a paused slide show.

Browsing for Pictures
[Sort By...] changes the order in which items are displayed.
[My Pictures] views pictures in the My Pictures folder on your computer.
[Recent Pictures] displays pictures that you have viewed recently.
[More Pictures] views pictures that are located in other folders. Browse through the drives and folders to locate the pictures you want to view.

(Note)   On the remote control, use the **CH/PG Up** and **CH/PG Down** buttons to zoom in or out on a picture, and use the **left/right/up/down arrows** buttons to move a picture.

Editing Pictures

To edit a picture, select **Edit**, then select the picture you want to modify. To make modifications permanent, you must select **Save**.

Editing options may include the following:

Rotate: rotates the picture ninety degrees to the right.

Auto Fix: automatically balances the picture's color and brightness.

Remove Red-Eye: removes the red-eye created in flash photography.

To undo a modification you have performed on a picture, select **Undo**. Select **Previous** or **Next** to continue editing other pictures.

Pictures Settings

[Slide Duration] determines how long each slide in a slide show is displayed before automatically advancing.

[Slide Show Transition] sets the style of transition used between slides in a slide show.

[Load Default Settings] returns the settings on this page to their original values. If you modify any settings on this page, you must select **Apply** for these changes to take effect.

3.2.7. Radio

PowerCinema lets you listen to the radio on your computer. You can listen to the radio, add stations to your list of Favorites, and schedule automatic recordings.

Listening to the Radio
You can use the remote control or playback control panel to perform the playback functions.
[All Stations] displays all available radio stations. Select a station in the list to listen to it.
[Favorites] displays the radio stations you add to this special list, and opens by default whenever you open the Radio function.
[Manage Stations] allows you to organize radio stations.
[Schedule] allows you to set a recording schedule.
[Recorded Radio] allows you to listen to audio files that you have recorded from the radio. Select a file in the list to listen to it.
- Play - listens to the list of recorded files from the top.
- Shuffle - plays files in random order.
- Repeat All - repeats the list of recorded files after the entire list has played.

Managing Radio Stations
A star indicates those stations that have been added to the Favorites list. Selecting a station in the list displays the following options:
[Add to Favorites] adds the station to your list of Favorites.
[Delete] removes the station from PowerCinema.
[Edit] allows you to change the frequency and name.
- Add a New Station -
  To add a new radio station to the list of available stations, select **Create Station**. The new station appears in the list of available radio stations. Enter the station's frequency, then press **Enter** on the keyboard or remote. Enter the station's name, then press **Enter** on the keyboard or remote.
- Scan Station -
  If no station list exists, select **Scan Stations**. Your computer will scan and list all available radio stations.

Radio Recording Schedules

To set a recording schedule, select **Schedule**, then **New schedule**. (Make sure that **Radio** is selected.) In the page that opens, select the Channel you want to record, the Scheduling Interval, and the recording date and times. Select **Apply** to activate the recording schedule, or **Cancel** to quit without accepting the schedule.

Select an existing recording schedule to open it for modification. Select **Delete** to remove a recording schedule you have previously created.

Radio Settings

[Fine Tuning Scale] sets the increment used for tuning radio stations.

[Recording Format] sets the file format of audio recorded from the radio.

[Recording Destination] sets the folder where audio files recorded from the radio are saved.

[Load Default Settings] returns the settings on this page to their original values. If you modify any settings on this page, you must select **Apply** for these changes to take effect.

3.2.8. Extras

The Extras function displays extra features for enhancing the functionality of PowerCinema. You must be connected to the Internet to explore many of these extra features. Select Extras on the Home page to open the Extras function.

Content on the Extras page includes product upgrades and patches to improve PowerCinema's functionality. Select an upgrade or a patch to begin the download process. Select a program in the content area to launch it.

Since the content in the Extras function is constantly changing, be sure to visit often for regular updates, or just to check out the various links. When the Extras page contains updated information, a Star icon appears next to **Extras** on the Home page.

3.2.9. Settings

Selecting **Settings** on the Home page opens a page of options for configuring PowerCinema.

General Settings
[PowerCinema Help] opens this help system.
[Display Settings] opens a page with options for configuring your display device.
[Audio Settings] opens a page with options for configuring your computer's audio.
[Run Setup Wizard] opens the wizard that appears the first time you run PowerCinema, allowing you to optimize your computer if you did not do so after installation, or if you upgrade your computer. You can also register your copy of PowerCinema.
[About PowerCinema] opens a page with version and copyright information, as well as your personal registration information.
[Restore Default Settings] returns all of the settings in PowerCinema to their original values.

Display Settings
- Screen Ratio -
  Use the **Screen Ratio** to indicate if you have a standard (4:3) or widescreen (16:9) display. 16:9 (or 4:3) **Movie Display Type** determines how movies and videos are converted to fit the screen when they do not match the screen ratio.
- 16:9 Movie Display Type -
  Letterbox keeps the video display undistorted and fills the extra space with black bars. **CLPV** is a video stretching technology from CyberLink that produces minimal distortion in the center of the picture. **Pan & Scan** displays the central portion of DVD titles in widescreen ratio, and allows you to drag the display area to view different portions of the video.
- Color Profile -
  Color Profile allows you to change the overall color scheme of video content during playback. **Original** uses the color scheme of the disc you are watching. **Vivid**, **Bright**, and **Theater** add enhanced color to the video display. **CLEV-2** is a video enhancement technology that dynamically adjusts the brightness, contrast, and saturation if the movie you are watching contains scenes that are overly dark or bright. Options other than Original require more system resources to run.

- Display Effect -
  Changes the PowerCinema display effect to **2D Mode** or **3D Mode**(Note).
- Load Default Settings -
  Load Default Settings returns the settings on this page to their original values. If you modify any settings on this page, you must select **Apply** for these changes to take effect.

Audio Settings

- Speaker Environment -
  Set **Speaker Environment** to match the number of speakers you have. Select **SPDIF** for digital audio output.
- Output Mode -
  Output Mode determines the special processing used on the audio signal. Experiment with the available settings to decide which you prefer.
- Audio Channel Expander -
  Audio Channel Expander expands the range of sound of 4 or 6 speaker output. **CLMEI** is an audio channel expansion technology that converts stereo audio sound and outputs it to multiple channels. There are three variations:
  CLMEI - Movie for watching movies
  CLMEI - Music for regular music output
  CLMEI - Onstage for a more live sound
- Dynamic Range Compression -
  Dynamic Range Compression offers options for different listening environments.
  Normal Environment creates a standard virtual listening environment.
  Quiet Environment emphasizes even the slightest sound effect in a movie.
  Noisy Environment amplifies low range audio signals, which is especially suitable for notebook computers.
- Load Default Settings -
  Load Default Settings returns the settings on this page to their original values. If you modify any settings on this page, you must select **Apply** for these changes to take effect.

(Note)   3D Mode enables a more active UI display, but requires greater hardware capability.

3.2.10. MakeDVD

MakeDVD is an easy tool to quickly create a DVD or other kinds of video discs. A simple procedure allows you to add the video content, design the disc menu, and then burn the disc.

Settings

There are settings in MakeDVD to allow you to fine-tune its performance to your machine and your personal preferences. Click the Settings button to open the Settings page.

- Output type -
  Select the disc format (DVD, VCD, or SVCD) you want to burn your content to. The disc type you use is dependent on the type of disc burner you have on your system, the length and quality of the video you use, and the type of player you intend for playback.
- Video quality -
  Select a video quality setting (if available) for the content you burn to disc. Remember that a higher quality video takes longer to compile and results in a larger file.
- Video format -
  Select a video format (NTSC or PAL) for the content you burn to disc. Generally speaking, the United States, Japan, Canada, and Mexico use NTSC, while Germany, Great Britain, South America, Australia, and most Western European and Asian countries use PAL.
- DVD burner -
  Select the DVD burner connected to your computer.

Selecting the Menu Theme

Menus allow you to navigate around on your final disc. The Preview page offers several options for modifying the appearance of the menu page that appears on your disc.
To add a menu theme to your DVD, click [Select menu]. In the page that opens, select a theme, then click [Return] to go back to the main page

Burning the disc

When you are ready to burn your movie to disc, click [Burn disc]. Click [Start burning] to begin the burning process. Click [Cancel burning] if you need to cancel the burning process.
You can prepare several discs that are compatible with your burning drive. Make sure not only that the disc type is correct (i.e.: that you have DVDs for a DVD drive and CDs for a CD drive), but that your discs are all in the correct format (+/-R/RW/etc.). MakeDVD supports the following disc types:

- DVD-R/RW
- DVD+R/RW
- VCD
- SVCD

4. Troubleshooting

Q: What is digital TV?

A: Unlike the traditional analog broadcasting that is subject to interference and noise, digital TV transmits and receives pictures and sounds by converting them into digits. Currently there are 3 global digital TV standards: DVB-T, ATSC and ISDB. Among them, DVB-T is the most popular standard now, and this TV card supports the DVB-T standard. For more information on DVB, visit the website at www.dvb.org.

Q: How to switch between analog TV and digital TV?

A: To switch between TV systems, you have to manually change the TV signal sources, and go to [Settings] > [Signal Settings] > [Capture Device] in PowerCinema to change the setting to [713x BDA Digital Capture] or [713x BDA Analog Capture]. Then perform a channel scanning again, and you can watch TV after the scanning is completed.

Q: Why is the installation of PowerCinema in Windows 2000/Me not available?

A: PowerCinema uses a module in Windows XP SP1, so it can only be installed in Windows XP SP1 or update.

Q: Why do I have so few digital channels? Why does the signal delay?

A: The reason may be that the digital signals received are not strong enough. To increase the signal strength, place the digital antenna at an open place or near an outdoor location.

Q: Why can I not receive digital TV?

A: Please make sure that your location is inside the digital TV (DVB-T) broadcasting area. Place the digital antenna at an open place or near an outdoor location. The signal reception may be weak due to the effect of additional sheltering obstacles.

Q: Why do I get a poor resolution for analog TV?

A: Please make sure that the analog signal source is not interfered. Too many branch cables will weaken the signals. You can install a signal booster to increase the resolution.

Q: Why does the computer respond slowly?

A: Please close other applications, and make sure the computer meets the system requirements. In addition, you can close the Time-Shifting function (it is enabled by default) to free some computer resources.

Q: Why is the Time-Shifting function not working?

A: Please make sure that the Time-Shifting function is enabled: check TV [Settings] > [Signal Settings] and set the [Enable Time-Shifting] to **Yes**. The Time-Shifting function needs more computer resources, including a Pentium® 2.4GHz (or higher) processor and 1GB free hard disk space.

Q: How long can a Time-Shifting recording be preserved? Why can I not watch previous programs after switching channels?

A: The recording time limit for using the Time-Shifting function is 30 minutes. This means that only the contents of the latest 30 minutes will be recorded in the hard disk; the contents prior to the 30-minute limit will be automatically erased to allow normal Time-Shifting operations. At least 1GB free hard disk space is recommended for the Time-Shifting function. The Time-Shifting function can only record the contents of the channel that you are currently watching. Once you switch to another channel, the previously recorded contents will be erased and the current contents will be recorded.

Q: Why does signal delay happen in recorded programs?

A: Please make sure the computer meets the system requirements. Do not use processor resources during recording. This TV card uses codec technology and will occupy some processor resource.

Q: Why can I not find any information in EPG? Why does EPG not display correctly?

A: EPG is only available when the information is provided by your digital TV service provider. No EPG available indicates tat your service provider does not provide EPG information. Incorrect EPG display may be caused by poor signal reception. Adjust the antenna location and try again.

Q: Why can I not wake up the computer with the remote control after entering the Standby mode?

A: To wake up the computer from the Standby mode, press and hold the power button on the remote control for 1 second. It may take 5~10 seconds (depending on the computer status) for the computer to wake up from the Standby mode. In addition, please make sure that the ACPI power management of your computer BIOS is set to S1 mode for the remote control, keyboard or mouse to wake up the computer from the Standby mode. If the setting is S3 mode, you can only wake up the computer from the Standby mode by pressing the power button of the computer.

Q: Can this TV card be used in multiple countries?

A: GIGABYTE's Digital Theater Hybrid TV Card supports worldwide analog systems (NTSC/PAL/ SECAM), so it can be used in multiple countries. For digital TV, DVB-T is currently the most popular standard, so this TV card can be used in most countries where the DVB-T digital broad-casting is available. To find out which countries support the DVB-T digital broadcasting, visit the website at www.dvb.org or the country-specific digital TV development website.

Q: Can I connect my computer to other display devices to watch TV?

A: Please make sure that the output of your graphics card supports the corresponding display device. The specifications of the graphics card affect the connection.

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