SageTV™

&

SageTV Client™

Version 2.0

User's Guide

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Chapter 1: Introduction

Thank you for purchasing or downloading the trial version of SageTV^{TM} from Frey Technologies, LLC. SageTV is the most innovative and intelligent Media Center software and service for the PC. SageTV offers more features than any standard PVR, as well as features not offered with any other PC-based PVR software. We hope you enjoy SageTV and all of its functionality. If you need any help during installation and setup please utilize this Guide, the Support section of our website at www.sage.tv/support.html and our online discussion forums at forums.sage.tv/forums. If your questions still remain unanswered, please submit a support request at www.sage.tv/request.html and we will respond to your inquiry within 72 hours.

Throughout the manual, the following formatting is used:

- ♻ Commands are displayed in red. Clicking on the text while viewing the manual in PDF form will jump to the description of that command. Example command: Select.

- ♻ Cross references to menus and other links are displayed in blue. Click on the text to jump to the referenced location. Example reference: Chapter 1: Introduction.

- ♻ Links to web sites and email are displayed in blue and underlined. Example site: www.sage.tv.

Minimum System Requirements

- ♻ Windows 98SE or later operating system
- ♻ Recommended minimum 256MB RAM
- ♻ Genuine Intel Pentium III 600 MHz, AMD Athlon 600 MHz or faster or VIA 800MHz
- ♻ Installed compatible TV tuner/MPEG-2 encoding card or USB device (a list of compatible cards and devices is available at www.sage.tv/requirements.html)
- ♻ PCI/AGP bus graphics card with overlay. NOTE: While it is recommended that your graphics card drivers support DirectX9 for optimum performance, it is not required.
- ♻ MPEG-2 Software Decoder (bundled with most of the compatible TV tuner cards)
- ♻ DirectX v9.0 or higher available from www.microsoft.com/windows/directx
- ♻ Java Runtime Environment v1.4 or higher available from java.sun.com/getjava
- ♻ Analog or Digital Cable, Satellite, or Broadcast TV for recording television
- ♻ Internet Connection (for SageTV Service)
- ♻ 20 MB Free disk space for SageTV application, database, and documentation
- ♻ Recommended minimum 20 GB Free disk space for video storage, i.e. Great Quality Setting takes about 2 GB per hour of video stored
- ♻ For best results, Frey recommends that you use a dedicated partition for video storage and format the partition using 64k block sizes. To access the 64k formatting option in Windows 2000/XP, you need to format the partition using Control Panel > Administrative Tools > Computer Management > Disk Management.

Product Overview

SageTV is a computer software application and service for your PC that interacts with a TV tuner/MPEG-2 encoding card allowing you to receive television programming through your PC. With SageTV you can pause live TV, rewind and fast-forward while recording. The SageTV EPG service adds an integrated programming guide that lists all upcoming programs for the next 14 days based on your service provider. This service also gives you a Favorites Manager™, One-Touch Recording and Intelligent Recordings™ (a SageTV exclusive), which records programs based on your prior viewing habits. SageTV also supports the playback of most standard non-proprietary media file types including your Music, Photos and Video collection. In addition, SageTV will support multiple tuner devices to record more than one show at a time. Then, with the addition of SageTV Client, you can extend the same functionality of SageTV to any PC on your network. With SageTV Client you can also stream Live and Recorded MPEG-2 Video and Music. More information on SageTV and the SageTV Client is available on our website at www.sage.tv.

Navigational Tips

Before you use SageTV there are a few Navigational Items we want to point out when using the application:

☯ SageTV uses the Left and Right commands to allow you quick navigation through menus. Most menus can be exited by using Left and most items can be selected by using Right. The only places this doesn't hold true are in the Live TV Guide and during Media Playback. When using SageTV with a mouse, the left arrow icon in the upper left-hand corner of the screen is for Back. Instead of implementing a right arrow icon, items can just be selected with the mouse by left-clicking on them.

☯ SageTV uses the TV command to allow you to jump quickly between the currently playing media and the last menu you viewed. This command is linked to the "Back" or "Exit" buttons on the supported remotes and to "Ctrl-V" with the keyboard.

☯ Throughout many of the menus in SageTV are different viewing options to display video preview windows, change sorting options and to provide quick launch menus when media is playing. The Options command provides quick access to these menus and is linked to "Ctrl-O" on the keyboard and right-click on the mouse. The linked remote codes are shown at the end of this document in Appendix E: Remote Controls.

☯ When playing back Music, the Channel Up and Channel Down commands are used to switch tracks. When playing back a DVD, the same commands are used to switch chapters.

☯ Clicking on the SageTV logo at any time will bring you to the Main Menu.

Chapter 2: Installation and Setup

Before Installing SageTV

Prior to installing SageTV, it is recommended that you first install the compatible TV tuner/MPEG-2 encoder card or USB devices which you plan to use with SageTV. Please follow the installation instructions that shipped with your devices prior to installing SageTV. We recommend installing all of the software applications that came with your devices for testing purposes. Once these devices have been installed, make sure they are functioning properly with the software that came with them. A list of compatible cards and devices is available at www.sage.tv/requirements.html.

Before Installing SageTV Client

The SageTV Client software will only function when it is able to connect to the SageTV software across a network connection; therefore, SageTV should already be installed and running on a separate PC before installing and configuring SageTV Client. Before you use the SageTV Client software, you will need to enable the client-server functionality of SageTV on the server. From the Main Menu of SageTV, select **Setup**, then select **Detailed Setup**, choose the **Advanced** tab, and "**Enable**" the **SageTV Server** option, as shown below.
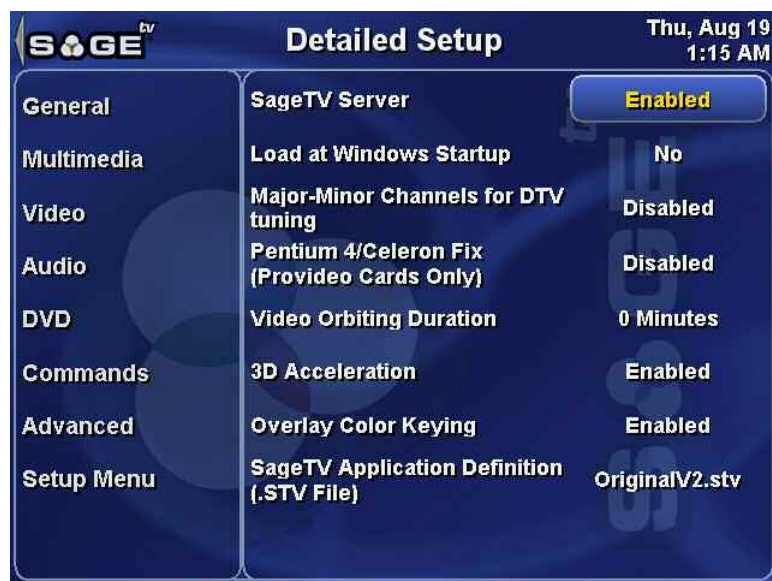
In SageTV, after selecting the **Advanced** tab, select this button to enable the client-server functionality before installing SageTV Client.

Once the server is enabled and you have made a note of the server name or IP address for the PC where SageTV is installed, you can now proceed with installing and running the SageTV Client software on a separate PC. You need to have a separate licensed copy of the SageTV Client for each PC you plan to use it on.

SageTV and SageTVClient Installation

Note that SageTV requires Java Runtime Environment v1.4 or later. If it is not installed, the installer will install Java automatically.

To install either SageTV or SageTV Client, run the executable (.EXE) file you downloaded after purchasing the software. Installation will proceed as follows:

1) Introduction. Click Next.

2) Read the License Agreement. If you accept the agreement, click that option and then Click Next. Installation will not proceed unless the agreement is accepted.
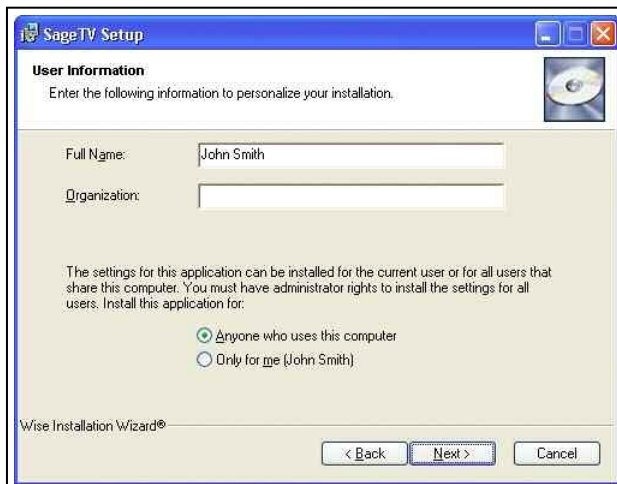
3) Enter your personalization information and choose whether SageTV will be available to anyone on the computer, or only to the chosen user. Then select Next.
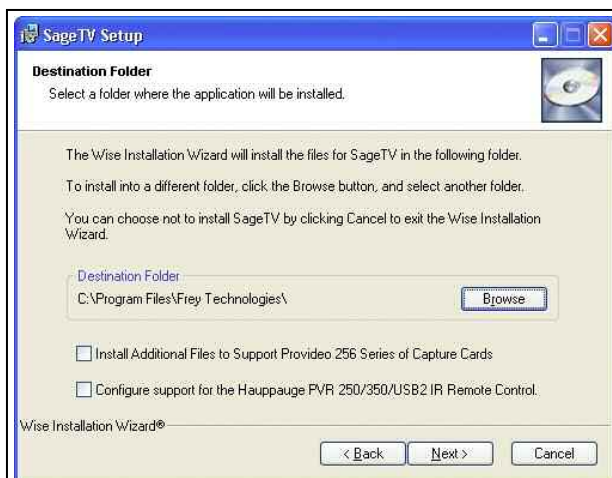
4a) Choose the destination folder where the software is to be installed.

4b) If you will be using a Provideo 256 Series card, select the option to install the additional files for those cards.

4c) If you will be using the infrared remote control from the Hauppauge 350, 250, or USB2 tuners, select the option to configure the support for that remote control device. The Hauppauge remote software must be installed before SageTV can install support for the remote.

Note: Do not select this option if you are installing an upgrade and have already configured this remote. If you have customized the remote's configuration file, selecting the option to configure the remote again will overwrite your customizations.
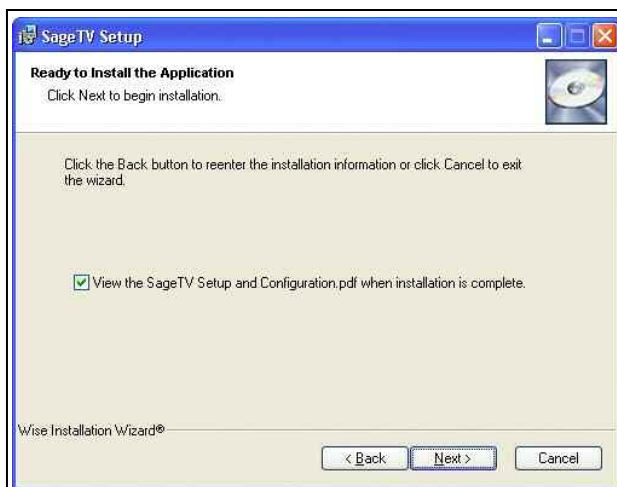
5) Installation is ready to begin. Choose whether to view the setup documentation after installation is complete and select Next.

6) If you chose to have the installation configure support for the Hauppauge remote, you will be reminded to restart the Hauppauge remote software.
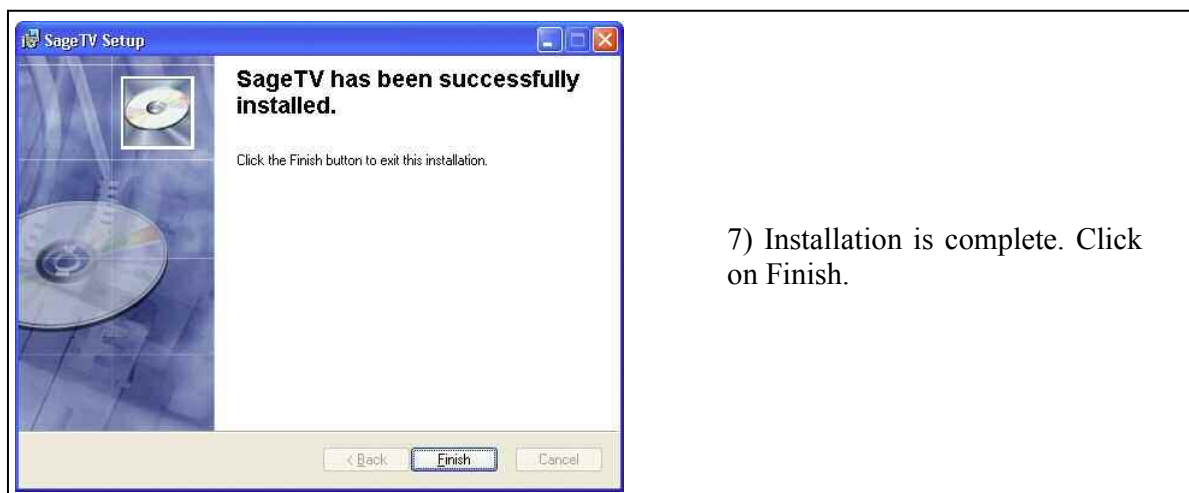
7) Installation is complete. Click on Finish.

License Key Registration

Once installation is complete, launch SageTV or SageTV Client in order to register the software. The first time SageTV is launched, you will be presented with a reminder to enter your license key:

If you are using the 15-day trial of SageTV, just click OK to bypass the license key screen. If you have already purchased the software and have received your license key, select Enter Key.

After selecting the Enter Key button, you will be asked to enter your license key, as it was received in an email from Frey Technologies when you purchased the software.

To activate your registration of SageTV, enter your name and license key exactly as it was provided to you.

Tip: An easy way to enter this information without accidentally making a mistake is to select the key in the email you received, copy it to the Windows clipboard (Ctrl+C), then paste it into the entry field for the key in the above dialog (Ctrl+V).

Starting SageTV or SageTV Client

To start SageTV or SageTV Client, do one of two things:

⚪ Double click on the SageTV or SageTVClient icon on your Windows desktop.

or

⚪ Go to Start > All Programs > Frey Technologies, and click on SageTV or SageTVClient.

The program will then launch, displaying the SageTV splash screen telling you that the program is loading. Once initialization is complete, SageTV will display its Main Menu.

Note: If SageTV or SageTV Client is already running, but sleeping in the system tray, when you start it, it will wake itself from the system tray rather than start running another copy of the program.

Configure SageTV Client to Connect to the Server

Since SageTV Client must always connect to SageTV on the server computer, you will be asked to input the name or IP address of the SageTV server when the client is launched.
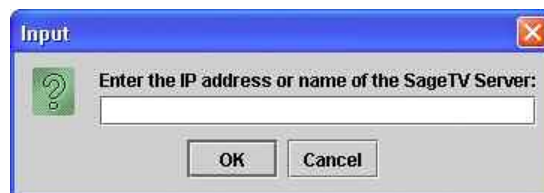
After inputting the name or IP address of the server, for example: **HTPC** if that is the name of the server system, or **172.16.1.33** if that is the IP address, select OK to continue.

Normally, you will be asked to enter this information every time SageTV Client is launched; however, you may wish to configure SageTV Client to automatically connect to the server on its own. To do that, from the Main Menu of SageTV Client, select **Setup**, then select **Detailed Setup**, choose the **General** tab, and select the button next to **Automatically Connect to Server**. That option will then change from displaying **No** to displaying the name or IP address of the server, which you previously entered when SageTV client was started.
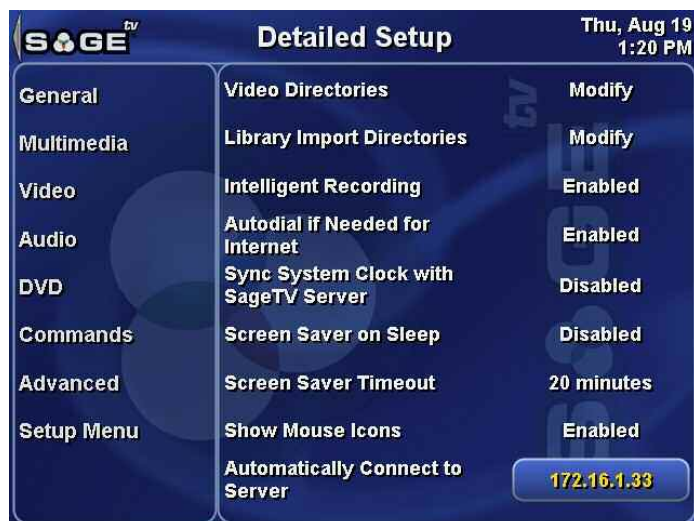
In SageTV Client, after selecting the **General** tab in Detailed Setup, select this button to enable the client to automatically connect to the server each time it is launched.

Basic Initial Configuration

The first time that SageTV is run, you will be presented with the **Setup Wizard**, which contains the steps necessary to configure your video capture devices. The steps outlined below are for a basic setup of configuring a single tuner using a cable TV coax line as the input. For complete details of other configuration options, including the use of multiple tuners, external cable or satellite converter boxes, and tuning options for those devices, please see the full description of the Setup Wizard later in this manual. **Note:** The Setup Wizard is accessible from the Setup Menu.

Important: For the setup process to complete successfully, please be sure your computer is connected to the internet before continuing with the Setup Wizard.

To complete this basic setup, use the keyboard Up and Down arrow keys to navigate lists. Use the Right arrow or the Select command (Enter key) to make selections, and the Left arrow to return to the previous menu. Alternatively, simply use a mouse to point to and click on the options.
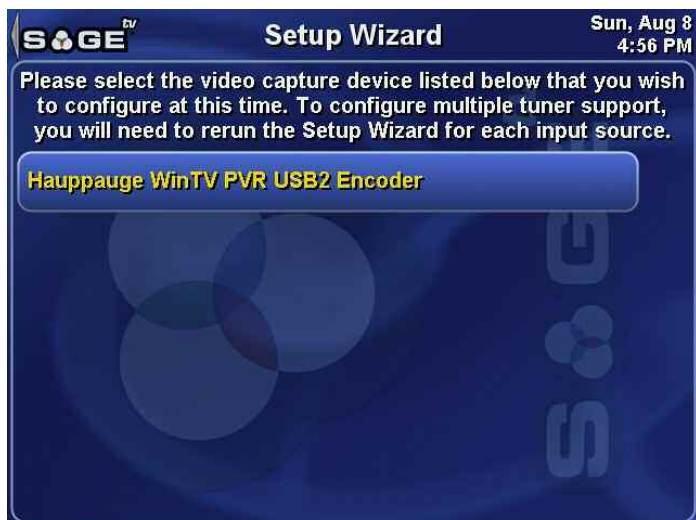
1) The first step is simply to choose the tuner to configure.
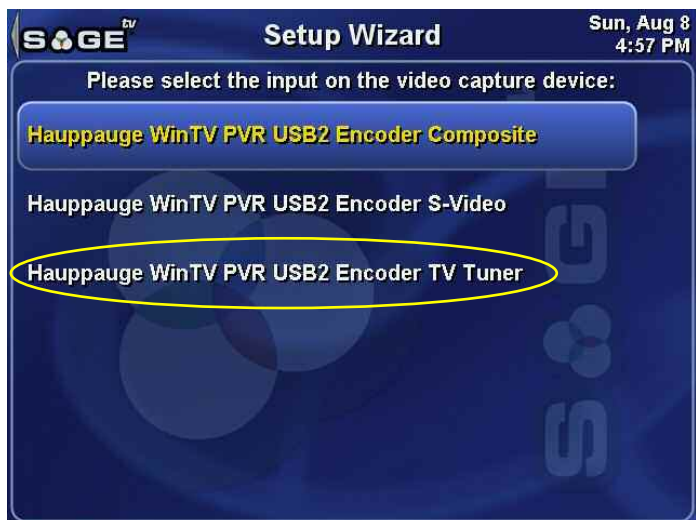
2) In this step, you will be presented with a list of the available inputs for your chosen capture device. Since the basic setup will be using the TV tuner connected directly to the cable TV coax, you would select the third option: **TV Tuner**.

3) Choose the tuning option for the input from step 2. **Cable TV** will be selected here.

SAGE tv   **Setup Wizard**   Sun, Aug 8   5:09 PM

Programming Guide data is provided for the United States with no subscription fees. Users outside of the United States can configure the XMLTV Plugin (which needs to be installed separately). Do you want to configure the Hauppauge WinTV PVR USB2 Encoder TV Tuner source with Programming Guide data?

Use Programming Guide Data with this Source

Do Not Use Programming Guide Data with this Source

4) We will be using the included Programming Guide Data for this basic configuration.

SAGE tv   **Setup Wizard**   Sun, Aug 8   5:13 PM

Select the type of Programming Guide Data Provider to use with the Hauppauge WinTV PVR USB2 Encoder TV Tuner Source:

Cable or Satellite

Local Broadcast (Over-The-Air)
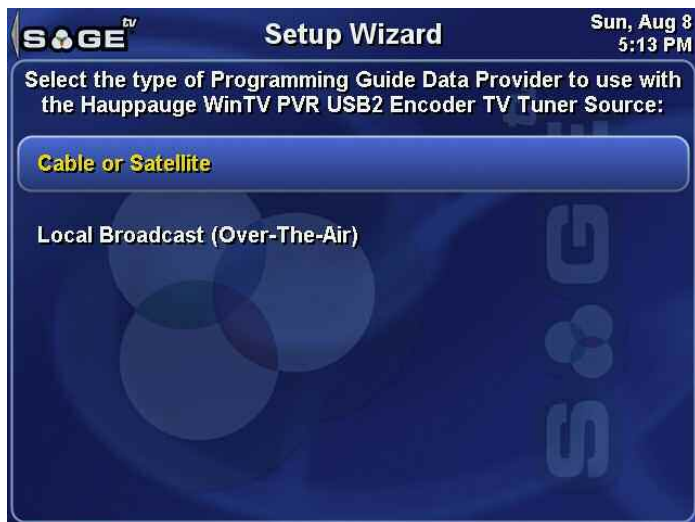
5) Select the type of the provider for the Programming Guide Data. This basic setup will use **Cable**.

SAGE tv   **Setup Wizard**   Sun, Aug 8   5:15 PM

Please enter your zip code:

6) Enter your zip code by typing in the 5 digit number on the keyboard. SageTV will then use your internet connection to retrieve a list of providers for your area.
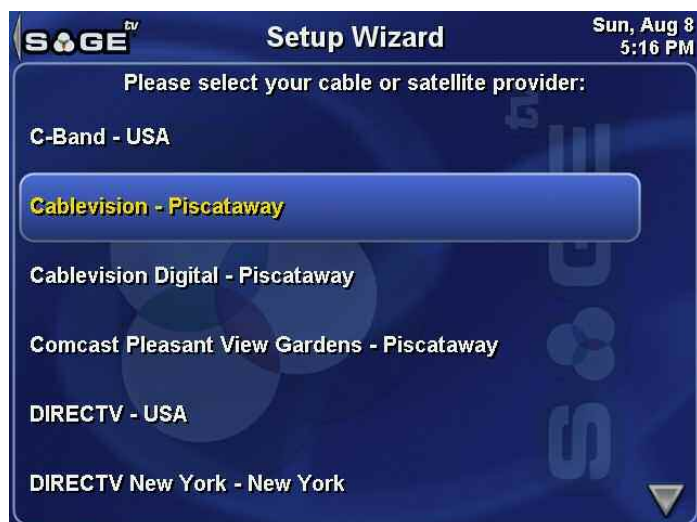
7) Choose your cable provider from the list presented. If your provider is not on the list, use the left arrow to go back and try another zip code near your area.
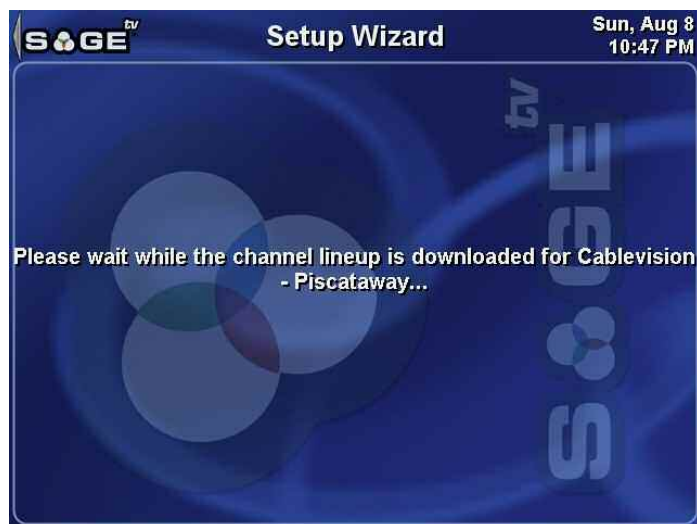
8) There will a short delay as the channel information is downloaded via the internet.
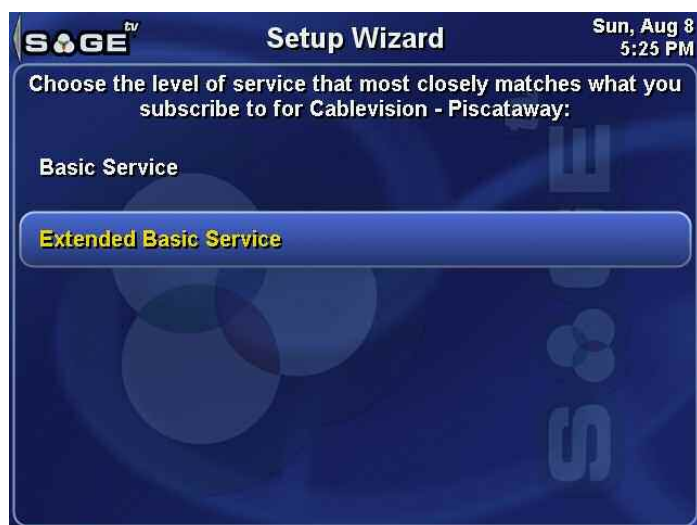
9) Choose your level of cable service. If you are not sure which level matches your service, select **Extended Basic Service** for a complete list of channels.
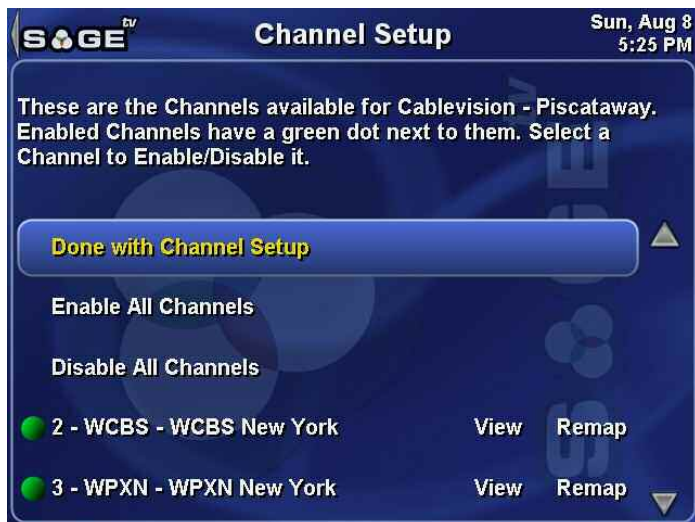
10) Select the channels you can receive. Initially, all channels from your cable provider will be listed with a green dot next to them, indicating that SageTV is allowed to use those channels. Select a channel to toggle whether it is enabled or not. You may also use **View** to preview a channel and **Remap** to remap channels. (These options are explained in the full explanation of the Setup Wizard.) Select **Done with Channel Setup** when finished.
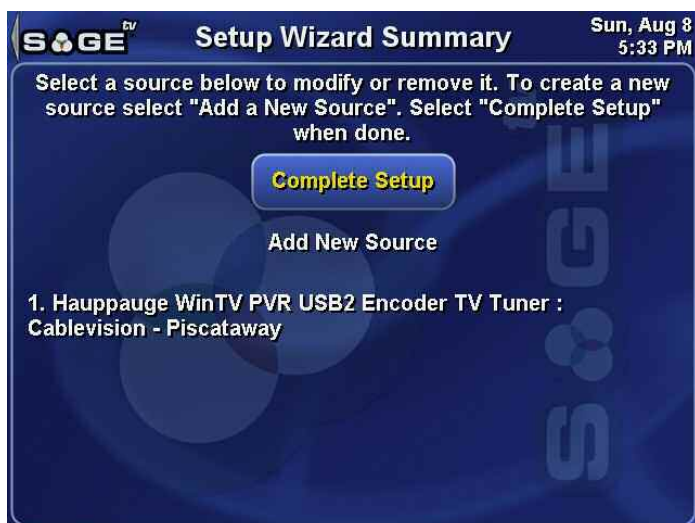
11) Basic configuration for a single tuner connected to cable TV is now done. Select **Complete Setup** to finish.

You have finished configuring SageTV to use a single tuner connected to a cable TV coax line input. SageTV will now be able to use that tuner to automatically tune to a channel and record a show that is scheduled to record or to watch live TV.

Remember, SageTV can be configured to use a broader range of input types and can be used to automatically control an external tuning device, such as a cable TV converter box, sending that device signals to change channels as needed in order to record your TV shows. For full details on other configuration options, please see the complete explanation of all the Setup Wizard options.

SageTV Quick Start

To help start using SageTV, the following sections will cover the basics of putting SageTV to sleep, waking it again, or exiting it, along with simple walkthroughs for watching live TV,

scheduling a manual recording, creating a Favorite, and watching a recorded show. For information about starting SageTV, see Starting SageTV or SageTV Client.

Sleeping, Waking, and Exiting SageTV

SageTV has three states it may be in:

- **Running**: The SageTV display is visible. While running, you can interact with SageTV, making use of the menus and its media playback capabilities. TV shows that are scheduled to be recorded will be recorded.

- **Sleeping**: The SageTV display is either not visible or is shown in its screen saver state. If the screen saver is not used, the SageTV window will be minimized to an icon in the system tray, next to the Windows taskbar. While sleeping, SageTV will continue to record all scheduled recordings.

- **Closed**: SageTV is not running at all. SageTV cannot record any shows if it is not running.

Sleeping SageTV

The Power command may be used to put SageTV to sleep. By default, that command is assigned the Ctrl+Z keystroke. Or, you may use the **Sleep Mode** option on the Main Menu.

If SageTV is running in full screen mode when you put it to sleep, it may switch to its screen saver or minimize itself to the system tray on the Windows taskbar, depending on the configuration options. (See the Detailed Setup: General Settings option: Screen Saver on Sleep.) If it is running in a window, it will minimize itself to the system tray. Putting SageTV to sleep will stop any live TV that is not a scheduled recording. While sleeping, all shows scheduled to be recorded will still be recorded.

It is not necessary to put SageTV to sleep, but doing so causes it to hide its window from view, making it easier to focus on using your computer for something else, and also causes it to stop recording live TV, all while SageTV continues to record your scheduled shows.

Waking SageTV

While SageTV is sleeping in screen saver mode, click the mouse, press any key, or press any remote button to awaken SageTV. If it is sleeping in the system tray, you may right click on the icon to see the following options:

- **Restore SageTV** – Wake SageTV and display its window again.
- **Exit SageTV** – Close SageTV completely. It will no longer be running and will be unable to record any upcoming shows.
- **Cancel** – Cancel and close the pop-up menu. This has no effect on SageTV.

Exiting SageTV

To exit SageTV while its window is open, instead of putting it to sleep, you may use Alt+F4 on the keyboard, or click on the X on the upper right corner of the window if SageTV is in windowed mode.	If you wish to close SageTV, but allow it to continue recording, be sure to put it to sleep instead of exiting it.	See the appendix for an option regarding putting SageTV to sleep instead of exiting it when using ALT+F4 or clicking on the X. See this property: sleep_on_close

Watching Live TV

The first thing to remember about watching live TV is that SageTV is always recording, since the hardware encoder cards it uses first save shows as recordings on your hard drive. Then, SageTV plays the recording from that file. So, Live TV goes from the encoder card to your hard drive, then gets read by SageTV, decoded, and shown on the SageTV Video Playback display. Due to this process, live TV viewed through SageTV may be a few seconds behind when compared to connecting your cable TV or satellite line directly to your TV. The benefits, however, are that you get full use of SageTV's PVR functionality, including: pausing TV playback, rewinding, fast forwarding, saving the recording for later viewing, and so on.

If you wish to watch live TV, the simplest way to do so is to start SageTV and use either the TV or the Live TV command. Either one of those will take you immediately from the Main Menu to live TV when no other media is currently playing. When starting live TV in this way, however, playback begins on the last used channel. It is easy to change channels at that point by entering a channel number, then using the Select command (Enter key). You can also use the Channel Up or Channel Down commands (Page Up/Page Down keys). See Video Playback for more playback details.

To begin live TV watching a show you select, rather than simply starting on the last used channel, select LiveTV Guide from the Main Menu to see a grid layout of the TV program listings. (**Note:** If you have just recently set up SageTV, it may take a few minutes for the guide data to be downloaded, so parts of the guide may say "No Data".) Scroll through the grid to find a currently playing show that you wish to watch and Select it with the Enter key. Playback of that show will begin. For more details about using the program listings, see: LiveTV Guide. Again, see Video Playback for playback details.

Once live TV is started, it will continue recording until you do one of the following:

♻ Put SageTV to sleep. Unscheduled recordings of live TV will stop, but all scheduled recordings will continue while SageTV is sleeping.

♻ Watch a prerecorded show.

♻ Use the Stop command to stop the playback of the currently playing video. When you use Stop while watching an unscheduled recording (live TV), the recording will cease. Using

Stop while watching a scheduled recording will only stop playback of that recording; the actual recording process will continue.

Scheduling a Manual Recording

A Manual Recording is a recording resulting from using the Record command to instruct SageTV to record a specific airing of a show. These recordings have the highest priority of all recording types and will never be automatically deleted by SageTV; for example: they will not be deleted to make room for new recordings. If you wish to delete such a recording, you use the **Delete** option on the show's Recording Detail screen.

As an example of creating your first Manual Recording, from the Main Menu, use the Right arrow or Select command (Enter key) to choose the LiveTV Guide menu item. Scroll through the TV program listings to find a show you would like to record. While that show is highlighted, use the Record command (Ctrl+Y) to immediately mark it as a show to record, or use the Info command (Ctrl+I) to view the show's Program Information screen and choose the Record option on that menu.

To see that the show has been scheduled for recording, return to the Main Menu, choose **Schedule Recordings**, then on the next menu choose **View Upcoming Recording Schedule** to view the Recording Schedule. Scroll through the list of scheduled recordings to see the one you just added. Manual Recordings are outlined in red.

Creating a Favorite

Favorites are shows that you want SageTV to record every time they are aired. You can specify that SageTV record the airings based on whether they are a first run, rerun, either first run or rerun, or on a specific channel. SageTV will only record one airing of each episode, rather than recording every single airing, as long as the guide data for the show contains enough information for it to be able to tell one episode from another. Also, once an episode has been watched, it will remember that the episode was watched, even if the recording is later deleted, and will not record the same episode again. Taking all this into account, SageTV will attempt to create a recording schedule so that it can record as many unique airings of the show as it can. If it is unable to record one or more of the airings due to conflicts with other scheduled recordings, you will be notified of such conflicts and can decide what action to take on the Recording Information menu.

Scheduled Manual Recordings take precedence over Favorites, while Favorites have a higher priority over Intelligent Recordings. You can manage your Favorites from the Favorites Manager and can choose a Favorite from that menu to go to the Favorite Details menu where you will be able to set the options for that Favorite.

To create your first Favorite, you could go through a similar process as with Scheduling a Manual Recording, above. However, to try something new, use the Right arrow or the Select command (Enter key) to choose **Schedule Recordings** from the Main Menu. On the next menu,

choose **Search for Programs to Record**, followed by **Search by Title**. On the Search by Title screen, begin typing the name of a series that you regularly watch. When you see its title in the list on the right hand side of the screen, select it to see its future airings. Choose one of the airings. You will be taken to the Program Information screen for that show, where you can choose **Add Favorite**. You have now created a Favorite. While still on the same menu, choose **Favorite Options** to view and change the settings for that Favorite on the Favorite Details menu.

To see that the show has been scheduled for recording, return to the Main Menu, choose **Schedule Recordings**, then on the next menu, choose **View Upcoming Recording Schedule** to view the Recording Schedule. Scroll through the list of scheduled recordings to see the entries for the Favorite you just created. Favorites are outlined in white.

Intelligent Recordings

SageTV offers unique functionality like no other PVR application on the market. With SageTV, you can have programs automatically recorded for you based on your past viewing habits. Intelligent Recording decisions are based on which shows you have watched and which shows you have marked as Don't Like. This data is then used to find other shows in the program guide that may be similar to the shows you have watched. SageTV will then add them to the list of scheduled recordings. Once recorded, you can watch the show, mark it as Don't Like, delete it, or just leave it there and let SageTV delete it when it needs room for new recordings.

This is an extremely powerful feature that many of our users take advantage of, but which we set to "Disabled" by default, since your first few weeks of using the application may produce very inconsistent results because there is not a lot of watched history for the profiler to make its decisions. We recommend you give this feature a try after you've been using SageTV for a few weeks to see what it records for you. This feature will manage any remaining disk space that's left against your Favorites and Manual Recordings and will not delete any of those recordings to make room for Intelligent Recordings. In addition, Intelligent Recordings are scheduled with the lowest priority, so these recordings will not be added to the schedule at the expense of missing a Favorite or a Manual Recording.

When you are ready to give Intelligent Recording a try, enable the Intelligent Recording option at Detailed Setup: General Settings.

Watching a Recording

Now that you have scheduled at least one Manual Recording and created a Favorite, the next step would be to watch a recording. That's one of the best parts of SageTV: you don't need to watch the show while it is airing. Simply leave SageTV running, or put it to sleep (see: Sleeping SageTV), and SageTV will record your shows for you while you do something else. Remember: SageTV cannot record any shows if it is not running and if your computer is not turned on.

After giving SageTV some time to record one of your shows, choose **SageTV Recordings** from the Main Menu. That will take you to the SageTV Recordings menu, the list of all TV shows that SageTV has already recorded or is in the process of recording. There are at least two ways to begin watching a recording:

☯ Highlight an individual recording in the list. Use the Select command (Enter key) to begin playback. It may begin playing a preview, depending on the Video Menu Options settings. If a preview begins, Select it again to go to the Video Playback display.

☯ Highlight an individual recording in the list. Use the Right arrow or the Info command (Ctrl+I) to go to the show's Recording Detail menu. On that menu, choose **Watch Now** to go to the Video Playback display and begin playing the recording.

For information regarding control of SageTV while playing a video, see Video Playback's Playback Commands.

Chapter 3: SageTV Menus

Using the SageTV Menu Interface

The SageTV User Interface can be navigated using a keyboard, mouse, or remote control device. The basic use of each device is as follows.

Keyboard

For basic SageTV usage, you will simply use the Left, Right, Up, and Down arrows on the keyboard to navigate the menus. If there is no menu item to the right of the currently highlighted item, using the Right arrow will select the highlighted item. You may also use the Select command (Enter key) to select the highlighted item. Similarly, if there is no item to the left of the currently highlighted item, using the Left arrow will take you back to the previous menu.

SageTV is initially configured with keystrokes assigned to the most often used commands. Those and all other commands available for controlling SageTV may be customized by assigning your preferred keystrokes to them. Please see the SageTV Commands customization section for full details of all the available commands, their default keys, and how to customize their assignments. Some default commands are listed below. Note that you can customize these commands to use the keystrokes you prefer, so the keys listed here are the ones SageTV uses when initially installed.

Command	Keystroke	Function
Left	Left arrow	Moves the menu focus to the item towards the left of the currently highlighted item. If there is no such item, it will return you to the previous menu.
Right	Right arrow	Moves the menu focus to the item towards the right of the currently highlighted item. If there is no such item, it will select the item and proceed to the next screen.
Up	Up arrow	Moves the menu focus to the item above the currently highlighted item. Many menus will wrap from top to bottom if there is no item above the current one.
Down	Down arrow	Moves the menu focus to the item below the currently highlighted item. Many menus will wrap from bottom to top if there is no item below the current one.
Select	Enter	Selects the currently highlighted item and proceeds to the next screen.
Back	Alt+Left	Moves Back to the previous menu.

Command	Keystroke	Function
Forward	Alt+Right	Moves Forward to the next menu, after having used the Back command.
Page Right	Ctrl+F, F8	Moves one page to the right while in the LiveTV Guide.
Page Left	Ctrl+A, F7	Moves one page to the left while in the LiveTV Guide.
Page Up	Page Up, F5	Moves one page up in the menus or in the LiveTV Guide.
Page Down	Page Down, F6	Moves one page down in the menus or in the LiveTV Guide.
Home	Home	Moves directly to the Main Menu.
TV	Ctrl+V	Toggles between the Playback view and the current menu. If there is no media currently playing, live TV playback will begin.
Guide	Ctrl+X	Moves directly to the LiveTV Guide.
Power	Ctrl+Z	Puts SageTV to sleep.
Watched	Ctrl+W	Toggles whether the highlighted show is marked as Watched.
Favorite	Ctrl+K	Toggles whether the highlighted show is a Favorite. If it is already a favorite, you will be asked to confirm removing it as a Favorite.
Don't Like	Ctrl+J	Toggles the Don't Like setting for the currently highlighted show or recording. SageTV will not record shows that you mark as Don't Like, unless it is a manual recording. If Intelligent Recording in enabled, shows marked as Don't Like are not considered for recording and will influence which other shows may not be recorded.
Info	Ctrl+I	Views the detailed information for the highlighted show.
Record	Ctrl+Y	Toggles whether the highlighted show should be scheduled as a Manual Recording.
Full Screen	Ctrl+Shift+F	Toggles whether SageTV should make its Window full screen or not.
Options	Escape, Ctrl-O	Toggles the display of the Options pop-up menu for the current menu.
Num 0 – 9	0 – 9	Used to enter channel changes.
Delete	Delete	Asks for confirmation to delete the currently highlighted recording.

Mouse

Using the mouse in SageTV consists simply of moving the cursor to point to the menu item to be selected and clicking on it, as is usual when using the mouse in Windows programs. Since not all commands can be accessed via mouse buttons, such as page left, page right, page up, or page down on the LiveTV Guide screen for example, many menus have mouse icons to assist in navigation. However, in order to make use of those icons, they must first be enabled. From the Main Menu of SageTV, select **Setup**, then select **Detailed Setup**, choose the **General** tab, and "**Enable**" the option to **Show Mouse Icons** as shown below.

Enable the Show Mouse Icons option in order have SageTV display the navigational assist icons for mouse usage.
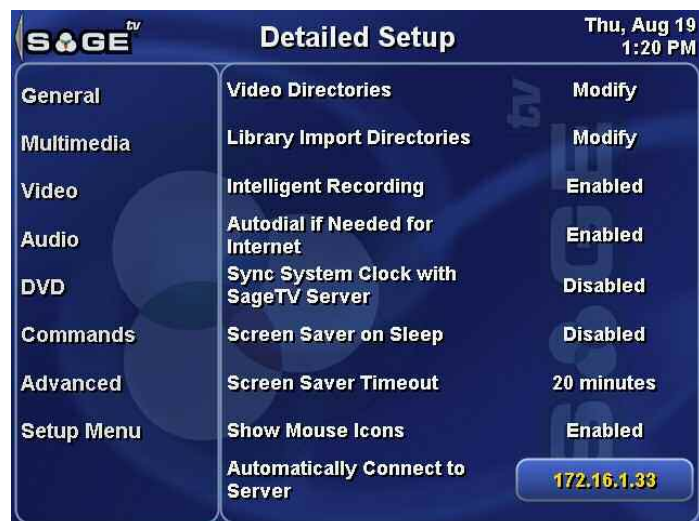
Besides left-clicking on menu items, SageTV also supports other mouse buttons.

Mouse button	Function
Left Button	Select the currently highlighted item and proceed to the next screen.
Right Button	Toggles the display of the Options pop-up menu for the current menu.
Scroll Wheel	Rolling the mouse wheel up or down performs Page Up or Page Down, respectively.
Back Button	On a 5-button mouse, moves Back to the previous menu.
Forward Button	On a 5-button mouse, moves Forward to the next menu, after having used the Back command.

Remote Control

SageTV can be controlled with a remote control either **indirectly** by using an external program that interacts with the remote control device and then sends commands to the SageTV program or **directly** by using an IR receiver that SageTV supports.

Indirect control

Indirect remote control involves using the remote's receiver with another program, which receives codes from the remote and then sends the appropriate command to SageTV. Examples of this style of remote control include using the Hauppauge remote and software, the Streamzap remote and software, or just about any remote and receiver with a third-party control program such as Girder (www.promixis.com).

SageTV is preconfigured to use the Hauppauge and Streamzap remotes with their original software. For details on how they are configured, see the layouts of those remotes in the appendix, where there is also information regarding customizing those remotes. For basic usage, they function similarly to using the keyboard: use the arrow buttons to navigate, and the OK button to select the currently highlighted menu item. In Appendix E: Remote Controls, see:

    ☮ SageTV Preconfigured Hauppauge Remote Control Commands

or

    ☮ SageTV Preconfigured Streamzap Remote Control Commands

Direct Control

Direct remote control involves using an IR receiver that SageTV supports so that SageTV can receive the remote codes directly and act on them without having to use another program to send the commands to SageTV. SageTV can use the USB-UIRT (www.usbuirt.com) or Evation's IRMan (www.evation.com) to directly receive codes from an infrared remote control device. This will require that you configure how you want SageTV to react to every button you wish to use on the remote. For details on that procedure, please see the Link Infrared/Keystroke to SageTV Command option in Detailed Setup.

Global Menu Features

All menus consist of a header at the top of the screen, with the menu choices displayed on the rest of the screen below the header. Some portions of the header and menu areas may only be selected by left-clicking on them with the mouse – such hot-spots are mouse shortcuts that are also accessible through regular commands via keyboard or remote input. The rest of the menu options may be selected by using the mouse, keyboard, or remote buttons.

The Menu Header

The ◁ icon is used to move back to the previous menu by left-clicking on it with the mouse. For the Main Menu, this icon is only visible when there is media currently playing; clicking on the icon will return you to the appropriate media playback display.

The 🔺 icon indicates that there is a recording schedule conflict; it is not displayed if there is no conflict. Clicking on it takes you to the Recording Information menu, where all conflicts are shown.

Main Menu   Sun, Aug 8 10:27 PM

Clicking on the **SAGE**tv logo icon takes you back to the Main Menu from any submenu.

The rest of the header consists of the menu title and the current date and time.

The Default Pop-up Menu: Video Menu Options

On nearly every menu, you may use the Options command to view configuration choices for that screen. Some menus have options menus specific for their possible settings, but most use the default general purpose Video Menu Options choices.

Video Menu Options
Display Video on Menus: If Active
Video Menu Style: Window
Close

For details regarding this pop-up menu and samples of how video playback appears in a window or as the menu background, see Video Menu Options, in **Detailed Setup**.

The SageTV Menus

The Main Menu is the first screen you will see when SageTV starts and is the access point for all of SageTV's features. Since that is the case, let's begin with that menu on the next page. Following that are descriptions of all the other menus, except for the ones having to do with configuration. For configuration menus and details, see Chapter 5: Configuring SageTV.

Main Menu

If media is currently playing, you may use the **Left** arrow or click on ◖ to go to the playback screen for the type of media that is playing.

The **Main Menu** is the gateway to all the features of SageTV. From this starting point, you may choose:

SageTV Recordings – Go to the SageTV Recordings menu, the list of all the TV shows that SageTV has recorded.

LiveTV Guide – Go to the LiveTV Guide, where you can see the grid layout for the TV schedule for the channels you can receive. The guide shows the schedule of upcoming shows for approximately the next two weeks. From the guide, you may choose shows to record or to watch now.

Schedule Recordings – Go to the Schedule Recordings menu where you can check the recording schedule, search for shows to record, manage your Favorites, create a timed recording, and check on recording conflicts.

Music Jukebox – Go to the Music Jukebox, where you can choose music to play.

Media Library & DVD – Go to the Media Library & DVD menu, where you can play DVDs from a DVD drive on the current computer, play archived shows recorded by SageTV or imported videos, and view your pictures.

Setup – Go to the Setup Menu, where you can choose all the available options for configuring SageTV. See the complete description of this submenu in Chapter 5: Configuring SageTV.

Sleep Mode – Put SageTV to sleep. See Sleeping SageTV.

SageTV Recordings

Use the Left arrow or click on ◖ to go to the Main Menu.

The information area at the top displays either the number of recordings in a category or a synopsis of the show's detailed description.

Video previews may be shown in the upper right corner.

Listings with a 📁 indicate a category containing multiple recordings.

Individual recordings display their time of recording and channel name or logo. Select the entry to watch it. Use the Right arrow or Info command to see the show's Recording Detail.

List entries may have a **border color** to signify a status: Currently Recording – yellow; Favorites – white; Manual Recordings – red; Shows marked as Don't Like – black; Live TV and Intelligent Recordings – No border color.

Select a category entry or use the Right arrow to view the category's list of recordings.

The **SageTV Recordings** screen lists all the TV shows that SageTV has recorded. Entries in the list may be individual recordings or categories containing multiple recordings. Highlighting an individual recording will cause some of its recording information to be displayed between the menu header and the list of recordings. Highlighting a category will display the category name and the number of the category's recordings in that area instead.
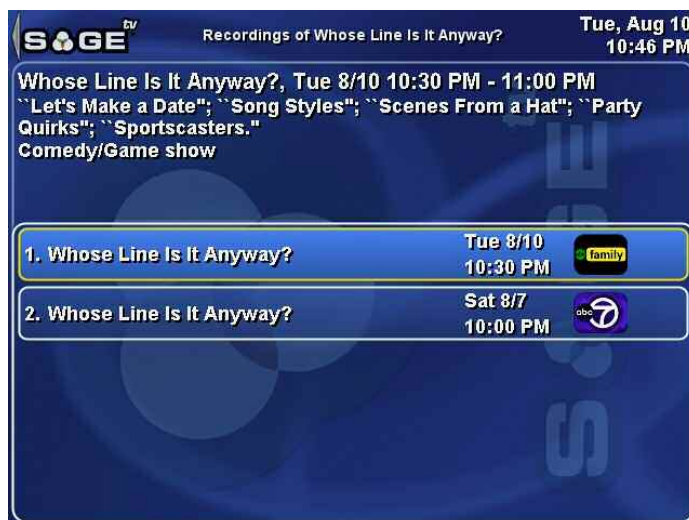
After highlighting an individual recording, you may use the Select command to initiate Video Playback for the show. **Note:** If you have enabled videos to display in a window on menus, the recording will begin playing in the upper right preview window. Select it again to begin full-sized playback.

To see the full details and additional options for a recording, left-click on an individual recording with the mouse or highlight it and then use the Right arrow or the Info command to go to the Recording Detail screen for that recording.

Pop-up Options Menu

SageTV **Recordings** uses a customized pop-up Options menu to configure how the list of recordings is presented. As usual, use the Options command to display the menu shown to the right.

The first choice, Video Menu Options, displays the regular Options menu found on most screens. See its full explanation for details. The last choice, **Close**, is used when you are done making selections and wish to exit the pop-up menu. The rest of the choices are described below.

Sort by – Displays a submenu with a list of options for sorting the recording list. The list of choices is quite long and fills more than one screen, so be sure to scroll down the list to see all the possible choices. If a recording list entry is a category, the first entry in the category's list is used when determining the category's sort rank.

  ♻ **Intelligent** – The list will be sorted by SageTV's recording priority. Manual recordings are listed before Favorites, then Intelligent Recordings and live TV, followed by watched shows, with shows marked as Don't Like listed last. Within each of those sections, the newer recordings are listed first. The **Reversed** form of this style simply reverses the sort order.

  ♻ **Newest/Oldest First** – Recordings are simply sorted by their recording date.

  ♻ **Title A-Z/Z-A** – Sorting is performed on the recorded shows' titles.

⊕ **Channel Name A-Z/Z-A** – The name of the channel where each show was recorded is used for sorting.

⊕ **Category** – The name of each show's category is used for sorting. As usual, there is a choice for reversing this sort.

⊕ **Close** – Close the pop-up list without changing the current setting.

Group by – Displays a submenu with a list of options for how the list of recordings are to be grouped.

⊕ **No Grouping** – The list of recordings will not be grouped together at all. Every entry in the list will be an individual recording; there will be no category entries.

⊕ **Title** – Shows with the same title will be grouped together and there will be a category entry in the list with that title.

⊕ **Channel** – Recordings will be categorized according to the channel where they were recorded.

⊕ **Close** – The standard choice to make when you wish to exit the pop-up menu without changing the current setting.

Display Filter – Displays a submenu with a list of options for which types of recordings are to be shown in the recording list.

⊕ **All** – All recordings will be displayed.

⊕ **Manual Records & Favorites** – Only Manual Recordings and Favorites will be displayed. Any live TV or Intelligent Recordings will not be listed.

⊕ **Manual Records** – Only Manual Recordings will be listed.

⊕ **Favorites** – Only Favorites will be listed.

⊕ **Close** – Close the pop-up without changing the current setting.

Recording Detail

Use the Left arrow or click on ⟨ to return to the screen where you previously were.

The top right displays the airing information for the recording. If the recording's channel has a logo, it may be displayed; however, if video is displayed in a window on menus, the video may be shown instead of the logo.

Full details for the recording are shown in the lower right section. The data may fill more than the space shown. If so, you will be able to scroll down to see the rest of the information.

Note: The detailed information could be limited to the file name for imported videos.
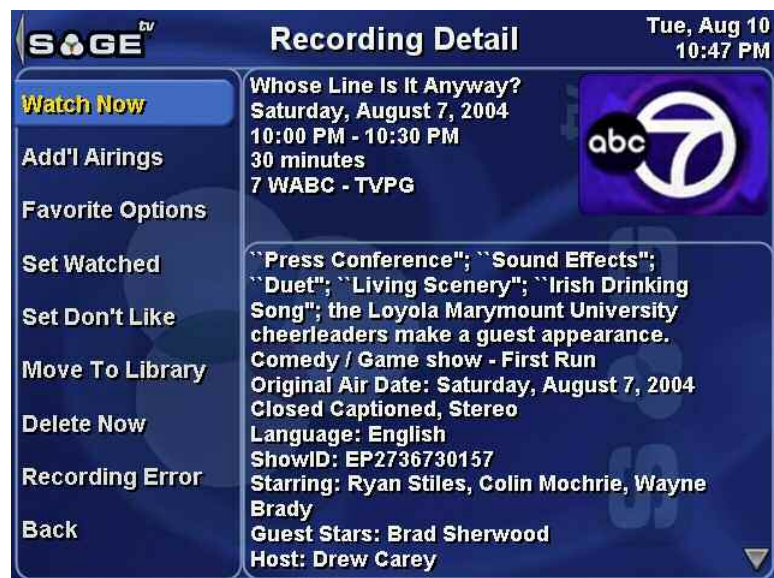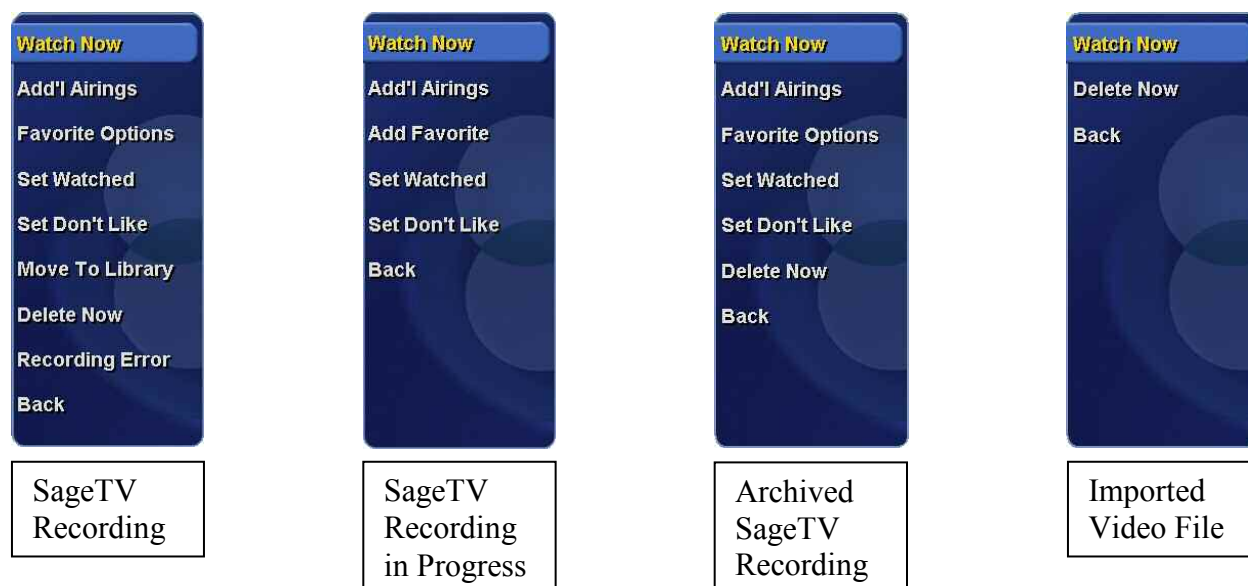
The left column contains all the options available for a recording. The options change according to the type of video file, since recording details may be viewed for SageTV recordings, current recordings, archived SageTV recordings, and videos imported into the library:

SageTV Recording	SageTV Recording in Progress	Archived SageTV Recording	Imported Video File
Watch Now	Watch Now	Watch Now	Watch Now
Add'l Airings	Add'l Airings	Add'l Airings	Delete Now
Favorite Options	Add Favorite	Favorite Options	Back
Set Watched	Set Watched	Set Watched	
Set Don't Like	Set Don't Like	Set Don't Like	
Move To Library	Back	Delete Now	
Delete Now		Back	
Recording Error			
Back			

For additional support, go to www.sage.tv/support.html or email us at support@freytechnologies.com

The possible options for a recording are:

Watch Now – Begin watching the video file. The screen will switch to the Video Playback display. This is available for all types of recordings.

Add'l Airings – Go to the Additional Airings menu, where upcoming airings for this show will be displayed. All future airings in the EPG will be listed, usually covering approximately the next two weeks.

Add Favorite – If a show is not already a Favorite, this option will be visible for shows recorded by SageTV. Selecting this option will add the show as a new Favorite, with the default Favorite settings. **Note:** Using the Favorite command will have the same effect.

Favorite Options – If a SageTV recording is already marked as a Favorite, this option will be available. Select it to jump to the Favorite Details menu, where you can set various options for that Favorite. **Note:** If you use the Favorite command on a show that is already a Favorite, it will ask if you wish to remove the Favorite; it will not go to the Favorite Details menu.

Set Watched – Sets a SageTV Recording as having been Watched. **Note:** Using the Watched command has the same effect.

Clear Watched – Clears the Watched status for an already-watched SageTV Recording. **Note:** Using the Watched command has the same effect.

Set Don't Like – Tells SageTV that you Don't Like the show. **Note:** Using the Don't Like command has the same effect.

Clear Don't Like – Clears the Don't Like status for a SageTV Recording previously marked as Don't Like. **Note:** Using the Don't Like command has the same effect.

Move To Library – Moves a completed SageTV Recording to the Archived SageTV Recordings library. The location for the recording file will not be changed on the computer's disk drive, but the recording will now appear in the list of Archived SageTV Recordings instead of the list of SageTV Recordings. SageTV will never automatically delete any archived recordings.

Delete Now – Available for all but currently recording videos, use this option to remove a video from SageTV and delete it from the computer's disk drive. A pop-up menu will ask for deletion confirmation. **Note:** The Delete command has the same effect.

Recording Error – Available only for completed SageTV recordings. At times, a recording may not contain what its description says it contains. The usual cause for this is a last-minute program scheduling change by a network, which is not reflected in the guide data SageTV uses. Selecting this option causes SageTV to clear its information for the episode it has listed as having been recorded, then it removes the recording from the SageTV Recordings list and deletes it from the computer's disk drive.
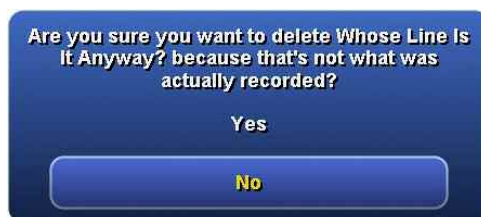
Back – Issues the Back command to return to the previous menu.

Using the Options command will display the Video Menu Options, which is the regular Options menu found on most screens. See its full explanation for details.
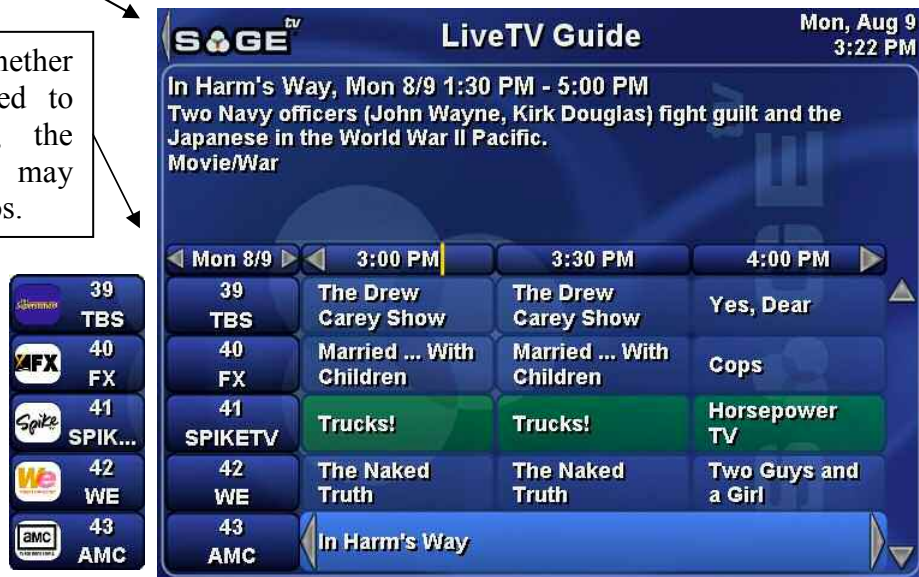
LiveTV Guide

Use the Left arrow or click on ￪ to go to the Main Menu.

The information area at the top displays a synopsis of the show's detailed description.

Video previews may be shown in the upper right corner.

Depending on whether SageTV is configured to use channel logos, the channel list may or may not include those logos.

The LiveTV Guide displays the TV programming schedule in a grid layout, covering a short time in the past and extending approximately two weeks into the future. Each page of the grid displays TV programming for the next 1 ½ hours.

The current time is depicted by a vertical yellow line on the time bar.

Navigation Commands

Most standard SageTV commands are available while viewing the LiveTV Guide. The commands listed below are those that are used to navigate the TV program guide.

Command	Keystroke	Function
Left	Left arrow	Highlights the show to the left of the current one, scrolling the grid if needed.
Right	Right arrow	Highlights the show to the right of the current one, scrolling the grid if needed.
Up	Up arrow	Highlights the show above the current one, scrolling the grid if needed.

Command	Keystroke	Function
Down	Down arrow	Highlights the show below the current one, scrolling the grid if needed.
Page Right	Ctrl+F, F8	Scrolls the grid one page forward, to see the program listings for the next 1 ½ hour time period.
Page Left	Ctrl+A, F7	Scrolls the grid one page backward, to see the program listings for the previous 1 ½ hour time period.
Page Up	Page Up, F5	Scrolls the grid one page up, to see the previous five channels.
Page Down	Page Down, F6	Scrolls the grid one page down, to see the next five channels.
Select	Enter	If the highlighted show is currently airing, SageTV will begin viewing the show. If the highlighted show is not currently airing, SageTV will display the Program Information screen for the show.
Info	Ctrl+I	Displays the Program Information screen for the highlighted show.
Watched	Ctrl+W	Toggles the Watched status for the highlighted show.
Favorite	Ctrl+K	Adds the highlighted show as a Favorite if it is not one already. If it is already a Favorite, you will be asked whether to remove it from the Favorites list.
Don't Like	Ctrl+J	Toggles the Don't Like status for the highlighted show.
Record	Ctrl+Y	Marks the show as a Manual Recording, if it is not one already, and adds it to the recording schedule. If it is already marked as a Manual Recording, that status will be cleared. It may not be removed from the recording schedule if it is also a Favorite.
Home	Home	Moves directly to the Main Menu.
Options	Escape, Ctrl-O	Toggles the display the Video Menu Options, which is the regular Options menu found on most screens. See its full explanation for details.
Num 0 – 9 + Select	0-9 + Enter	Enter one or more numbers followed by the Select command to jump to that channel number.
Num 0 – 9 + Page Right	0-9 + Ctrl+F	Enter one or more numbers followed by the Page Right command to jump ahead that many days in the guide.
Num 0 – 9 + Page Left	0-9 + Ctrl+A	Enter one or more numbers followed by the Page Left command to jump back that many days in the guide.

Mouse Navigation

Scrolling may be performed with the mouse by left-clicking on the arrow icons, ◁, ▷, △, and ▽, to scroll the list left, right, up, and down, by one complete page. The arrow buttons on either side of the day's date may be used to scroll one day at a time. The larger direction icons, ◁ and ▷, indicate that the show's timeslot continues in that direction; they are not mouse action buttons.

Left-click on a show to view its Program Information, where you will be able to choose whether watch the show, record it, view additional airings, add it as a favorite, and so on.
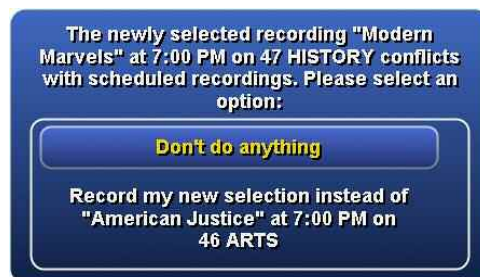
A right-click will display the Video Menu Options, which is the regular Options menu found on most screens. See its full explanation for details.

Manual Recording Conflicts

If you use the Record command to schedule a manual recording, SageTV will automatically check to see if it conflicts with any other manual recordings. If it does, you will be shown a conflict notification dialog with the following options:

Don't do anything – Ignore the new recording choice. Keep the currently scheduled manual recording instead.

Record my new selection – Cancel the other manual recording and schedule the new selection instead.

The newly selected recording "Modern Marvels" at 7:00 PM on 47 HISTORY conflicts with scheduled recordings. Please select an option:

Don't do anything

Record my new selection instead of "American Justice" at 7:00 PM on 46 ARTS

TIP: Updating the Guide Data

SageTV will automatically update its programming data once every 24 hours; however, if you wish to force an update of the guide data, go to Channel Setup, select any channel twice so that its enabled/disabled status is toggled back to its original setting, then select the **Done with Channel Setup** entry in the list of channels. This will not change which channels you can receive, but SageTV will then go online to refresh the programming data.

Program Information

Use the Left arrow or click on ◖ to return to the screen where you previously were.

The top right displays the airing information for the show. If the show's channel has a logo, it may be displayed; however, if video is displayed in a window on menus, the video may be shown instead of the logo.
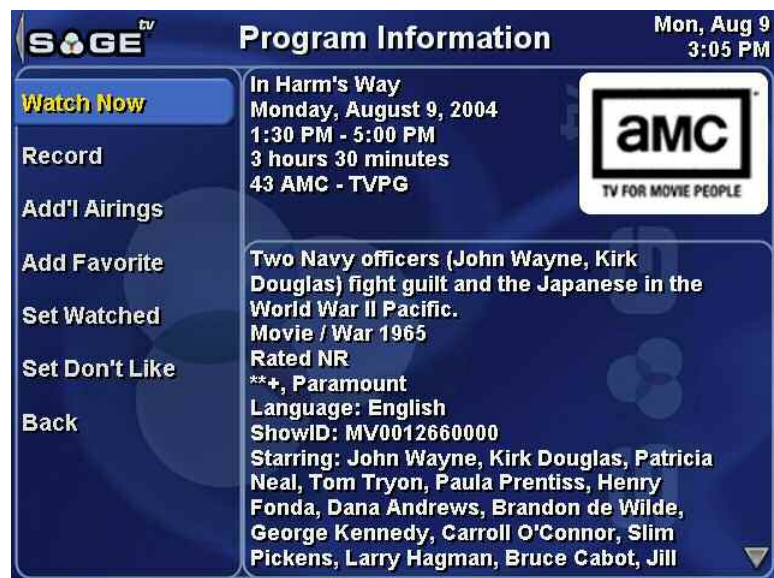
Full details for the show are shown in the lower right section. The data may fill more than the space shown. If so, you will be able to scroll down to see the rest of the information.

The **Program Information** screen displays information for shows in the LiveTV Guide. The left column contains all the options available for a show. Those options change, depending on the status of the show – whether it is in the past and not recorded, already recorded, currently airing or recording, or will air in the future.

The possible options for a show are:

Watch Now – If a show has already been recorded, is currently recording, or is currently airing but not yet recording, **Watch Now** will be available. Selecting this option will start playback of the show and the screen will switch to the Video Playback display. For shows that are currently airing, but have not already started recording, playback will begin at the current time. All recordings will start playback at the beginning of the recording.

Record – Marks a show as a Manual Recording. If the show airs in the future, it will be scheduled for recording. A currently airing show will begin recording at the current time. If the show is already recording, it will be marked as a Manual Recording. Using the Record command has the same effect.

Record Options – For current or future airings that have been marked as Manual Recordings, a pop-up recording options menu is displayed.

⊕ **Close** – Close the pop-up options list without making any changes.

⊕ **Cancel Recording** – Clears the Manual Recording setting for this show. It may still be recorded if it is a Favorite.

⊕ **Adjust Start Time** – For shows that have not yet started recording, this allows the recording's start time to be adjusted. A pop-up menu will be shown; see details below.

⊕ **Adjust Stop Time** – Allows adjusting a scheduled or current recording's stop time. A pop-up menu will be shown; see details below.

⊕ **Change Recording Quality** – Allows adjusting a scheduled recording's quality setting to be changed. A pop-up menu of recording quality choices will be shown.
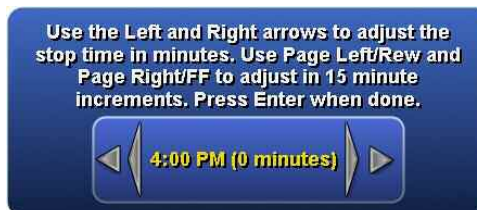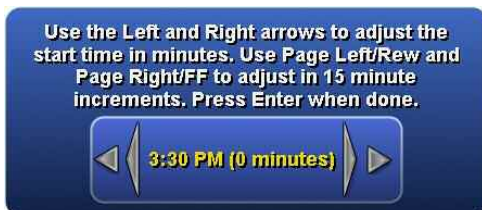
When adjusting the start or stop time for a manual recording, the above pop-up dialogs are shown. Use the Left and Right arrow commands, or left-click on the ◁ and ▷ icons, to adjust the time by a single minute at a time. Use the Page Left (Ctrl+A) and Page Right (Ctrl+F) commands, or left-click on the ◁ and ▷ icons, to adjust the time by 15 minutes at a time. When done, use the Select command (Enter), or left-click on the time, to accept the changes and close the dialog. To cancel the changes, use the Options command (Escape or Ctrl+O), or right click anywhere.

Add'l Airings – Go to the Additional Airings menu, where upcoming airings for this show will be displayed. All future airings in the EPG will be listed, usually covering approximately the next two weeks.

Add Favorite – If a show is not already a Favorite, this option will be visible. Selecting this option will add the show as a new Favorite, with the default Favorite settings. **Note:** Using the Favorite command will have the same effect.

Favorite Options – If a show is already marked as a Favorite, this option will be available. Select it to jump to the Favorite Details menu, where you can set various options for that

Favorite. **Note:** If you use the Favorite command on a show that is already a Favorite, it will ask if you wish to remove the Favorite; it will not go to the Favorite Details menu.

Set Watched – Sets a show as having been Watched. **Note:** Using the Watched command has the same effect.

Clear Watched – Clears the Watched status for an already-watched show. **Note:** Using the Watched command has the same effect.

Set Don't Like – Tells SageTV that you Don't Like the show. **Note:** Using the Don't Like command has the same effect.

Clear Don't Like – Clears the Don't Like status for a show previously marked as Don't Like. **Note:** Using the Don't Like command has the same effect.

Back – Issues the Back command to return to the previous menu.

Using the Options command will display the Video Menu Options, which is the regular Options menu found on most screens. See its full explanation for details.

Additional Airings

Use the Left arrow or click on ◁ to return to the screen where you previously were.

The information area at the top displays a synopsis of the show's detailed description.

Video previews may be shown in the upper right corner.

The list shows future airings of a show, displaying their titles, date & time of the future airing, and a channel logo if available. Highlight an entry, then use Select, the Right arrow, or the Info command to see the show's Program Information.

List entries may have a **border color** to signify a status: Currently Recording – yellow; Favorites – white; Manual Recordings – red; Shows marked as Don't Like – black; shows not scheduled to record or Intelligent Recordings – No border color.

The **Additional Airings** screen lists all the future airings for a show. Highlighting a show will cause some of its detailed information to be displayed between the menu header and the list of shows.

Using the Options command will display the Video Menu Options, which is the regular Options menu found on most screens. See its full explanation for details.

Schedule Recordings

Use the Left arrow or click on ◁ to go to the Main Menu.

The Schedule Recordings menu contains links to other menus where you can manage your scheduled recordings.

View Upcoming Recording Schedule – Go to the Recording Schedule, which displays a list of all TV shows that are scheduled to be recorded.

Search for Programs to Record – Go to the Search Menu, which contains choices for choosing how to search for upcoming shows to record.

Favorites Manager – Go to the Favorites Manager, where you can add new Favorites or select an existing Favorite whose settings can be viewed or changed.

Create Time Recording – Go to the Create Timed Recording screen, where you can schedule a one-time or recurring recording for a defined time period on a specific channel.

Recording Information – Go to the Recording Information menu to see the list of recording conflicts and choose how to handle those conflicts and similar ones in the future.

Back to Main Menu – Return to the Main Menu.

Recording Schedule

Use the Left arrow or click on ◁ to go to the Main Menu.
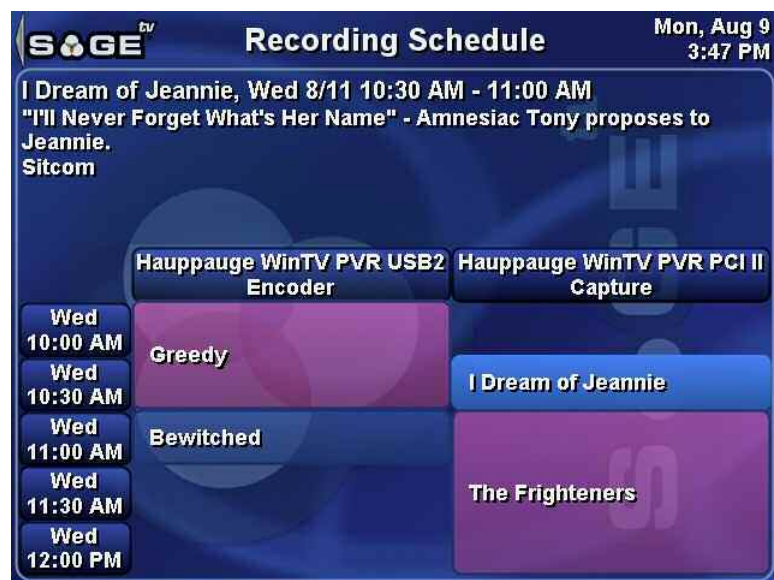
The information area at the top displays a synopsis of the show's detailed description.

Video previews may be shown in the upper right corner.

Parallel schedule listing

The list of upcoming recordings may be displayed in either the **parallel** style, where a column for each installed capture device is used to display shows in the time slot where they will be recorded for each device, or in the **interleaved** style, where scheduled recordings are simply presented in a list, without any blank space for time periods where no recordings are scheduled.

The parallel style may be scrolled endlessly into the future or past. The interleaved style will wrap back to the beginning of the list if you scroll all the way to the end.

The display style may be set using the Options command, as explained below.

Interleaved schedule listing

The **Recording Schedule** displays a list of all the TV shows scheduled to be recorded. You may scroll through the list, using the directional arrows, along with the Page Up and Page Down commands. Use the Info or Select commands to view the Program Information display for a highlighted show.

SageTV will automatically determine the upcoming recording schedule for the next three days, which can be changed by editing the scheduling_lookahead property. Manual recordings can be scheduled as far into the future as there is guide data in the LiveTV Guide, usually about 12-14 days. In addition, the automatic scheduler can schedule a show to be recorded beyond the initial three day search if it conflicts with other shows during that time period and if it will be aired again during the extended time that the guide covers.

Pop-up Options Menu

This menu uses a customized pop-up Options menu to configure how the list of scheduled recordings is presented. As usual, use the Options command to display the menu shown to the right.

The first choice, Video Menu Options, displays the regular Options menu found on most screens. See its full explanation for details. The last choice, **Close**, is used when you are done making selections and wish to exit the pop-up menu. The other two choices are described below.

Schedule Display – This option shows its current configuration and is a toggle between using the **parallel** and **interleaved** styles. See the images and description on the previous page for the differences between these two display styles.

Display Filter – Displays a submenu with a list of options for which types of scheduled recordings are to be shown in the schedule list.

- ☯ **All** – All scheduled recordings will be displayed.

- ☯ **Manual Records & Favorites** – Only scheduled Manual Recordings and Favorites will be displayed. Any scheduled Intelligent Recordings will not be listed.

- ☯ **Manual Records** – Only scheduled Manual Recordings will be listed.

- ☯ **Favorites** – Only scheduled Favorites will be listed.

- ☯ **Close** – Close the pop-up without changing the current setting.

Search Menu

Use the Left arrow or click on ◁ to go to the Schedule Recordings menu.

The Search Menu contains links to menus where you can search various fields of detailed show information to find the shows you want to record..

Search By Title – Go to the Search by Title menu, where you can search for shows with the specified text as part of the title.

Search By Person – Go to the Search by Person menu, where you can search for shows with a person's name listed in the description.

Search By Description – Go to the Search by Description menu, where you can search for shows with the specified text in the description.

Search All Fields – Go to the Search All Fields menu, where you can search for shows with the specified text in any field.

Back to Schedule Recordings Menu – Return to the Schedule Recordings menu.

Search by Title

Entry field for the search text.

These are the characters you can Select to enter as search text. You can also simply type using the keyboard, then arrow over to the results list.

Use **Back** to return to the Search Menu**, Erase** to clear the last character entered (or use Backspace on the keyboard), and **Clear** to clear the entry field.

The list of search results is dynamically updated as the search text is entered. Select one of the results to see the **Search Results** for that show. If a listing is in the database, but has no future airings, you will be told there are no results to display.

The information area at the top of **Search Results** displays a synopsis of the selected show's detailed description.

Video previews may be shown in the upper right corner.

The **Search Results** screen displays all future airings of the show title selected on the **Search by Title** menu. Use the Right arrow, Select, or Info commands to go to the Program Information screen for a highlighted listing. If the listing is currently recording, you will go to the Recording Detail screen instead.

Search by Person

Entry field for the search text.

These are the characters you can Select to enter as search text. You can also simply type using the keyboard, then arrow over to the results list.

Use **Back** to return to the Search Menu**, Erase** to clear the last character entered (or use Backspace on the keyboard), and **Clear** to clear the entry field.

The list of search results is dynamically updated as the search text is entered. Select one of the results to see the **Search Results** for that show. If a listing is in the database, but has no future airings, you will be told there are no results to display.

The information area at the top of **Search Results** displays a synopsis of the selected show's detailed description.

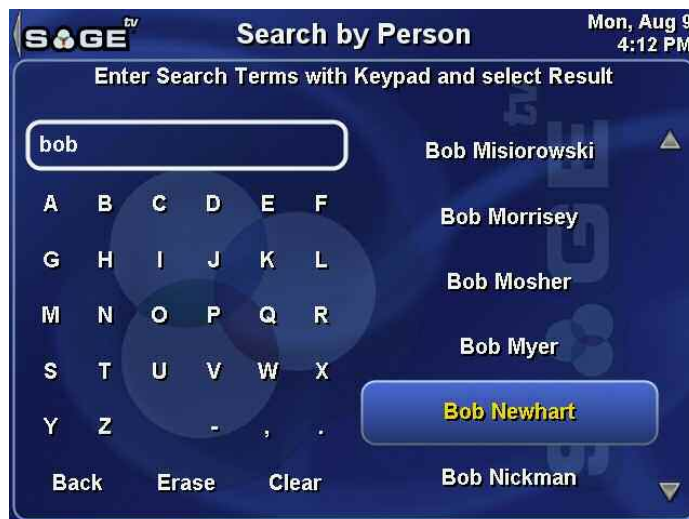Video previews may be shown in the upper right corner.

The **Search Results** screen displays all future airings of shows with the person selected on the **Search by Person** menu. Use the Right arrow, Select, or Info commands to go to the Program Information screen for a highlighted listing. If the listing is currently recording, you will go to the Recording Detail screen instead.
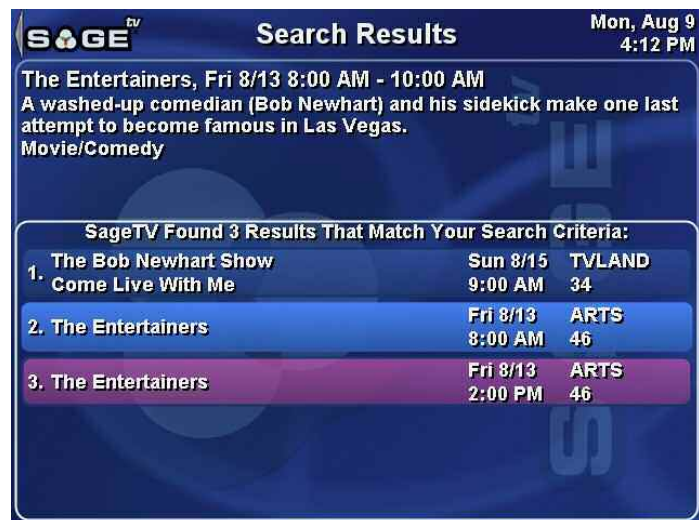
Search by Description

Entry field for the search text.

These are the characters you can Select to enter as search text. You can also simply type using the keyboard.

Use **Back** to return to the Search Menu**, Erase** to clear the last character entered (or use Backspace on the keyboard), and **Clear** to clear the entry field.

Select **Done** to see the **Search Results** for the text entered. If the text is not found, you will be told there are no results to display.

The information area at the top of **Search Results** displays a synopsis of the selected show's detailed description.

Video previews may be shown in the upper right corner.

The **Search Results** screen displays all future airings of shows whose descriptions contain the text entered on the **Search by Description** menu. Use the Right arrow, Select, or Info commands to go to the Program Information screen for a highlighted listing. If the listing is currently recording, you will go to the Recording Detail screen instead.

Search All Fields

Entry field for the search text.

These are the characters you can Select to enter as search text. You can also simply type using the keyboard.

Use **Back** to return to the Search Menu**, Erase** to clear the last character entered (or use Backspace on the keyboard)**,** and **Clear** to clear the entry field.

Select **Done** to see the **Search Results** for the text entered. If the text is not found, you will be told there are no results to display.

The information area at the top of **Search Results** displays a synopsis of the selected show's detailed description.

Video previews may be shown in the upper right corner.

The **Search Results** screen displays all future airings of shows where the text entered on the **Search All Fields** menu is found in any field of the shows' detailed information. Use the Right arrow, Select, or Info commands to go to the Program Information screen for a highlighted listing. If the listing is currently recording, you will go to the Recording Detail screen instead.

Favorites Manager

Use the Left arrow or click on (to go to the Schedule Recordings menu.

You may add new Favorites by selecting one of these options, or select **Back** to return to the Schedule Recordings menu.
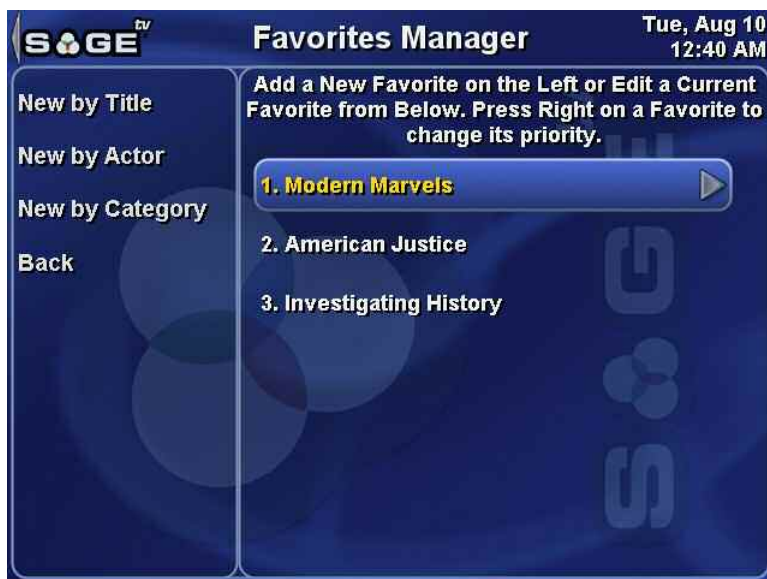
Select a favorite from the list to go to the Favorite Details menu for that favorite. Use the Right arrow or click on the ▷ icon to enable changing the favorite's priority. See the details, below.

The **Favorites Manager** lists all the current favorites and has options for adding new ones.

Adding New Favorites

The choices for adding a new favorite from this menu include:

New by Title – Adds a new favorite by searching for and choosing the title of the show to be added.

Simply type in part of the title you wish to add as a favorite, then select it from the list shown on the right side of the screen.

For more details regarding using this type of search menu, see Search by Title.

New by Actor – Adds a new favorite by searching for and choosing the name of the actor to be added.

Simply type in part of the name you wish to add as a favorite, then select it from the list shown on the right side of the screen.

For more details regarding using this type of search menu, see Search by Person.
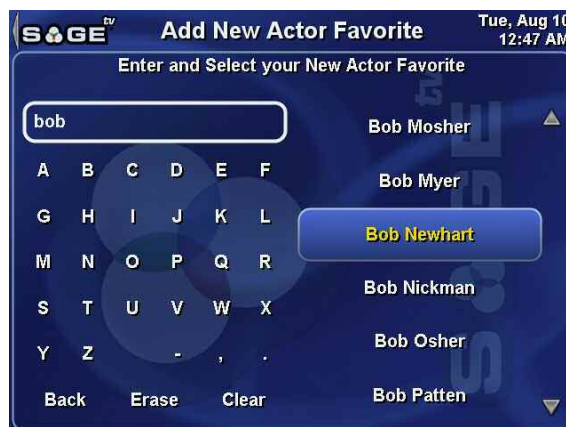
New by Category – Adds a new favorite by choosing a category to be added.

Simply scroll through the list of categories presented and select the one you wish to add as a favorite
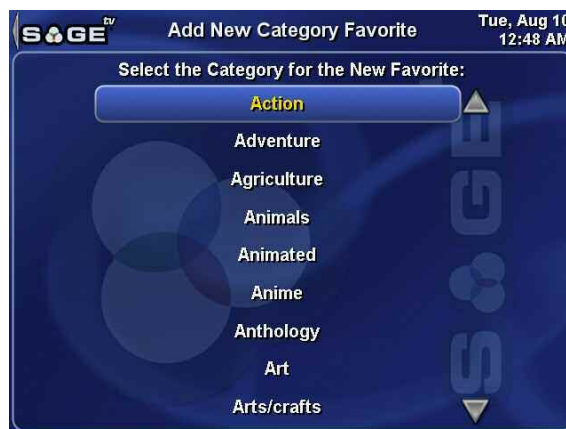
Adjusting a Favorite's Priority

In cases of scheduling conflicts, favorites are prioritized according to their position in the list of favorites: those with a lower number have priority over the higher numbered ones. Thus, favorite #1 has priority over favorite #2. You can enter a mode to change the priority of a favorite by using the Right arrow while it is highlighted, or by clicking on the ▷ icon with the mouse. The highlighted favorite will change its display to include additional icons. While in priority change mode, you may do the following:

- ♻ Use the Left arrow, or click on the ◁ icon, to **exit priority change mode**.

- ♻ Use the Up arrow, or click on the △ icon, to move the favorite up in the list, to a lower numbered position so that it has **higher priority**. This option will not be available if the favorite is in the #1 position.

- ♻ Use the Down arrow, or click on the ▽ icon, to move the favorite down in the list, to a higher numbered position so that it has **lower priority**. This option will not be available if the favorite is in the last position.

Favorite Details

Use the Left arrow or click on ❨ to return to the screen where you previously were.

You may change the options for the favorite by selecting the button next to the setting to be changed.
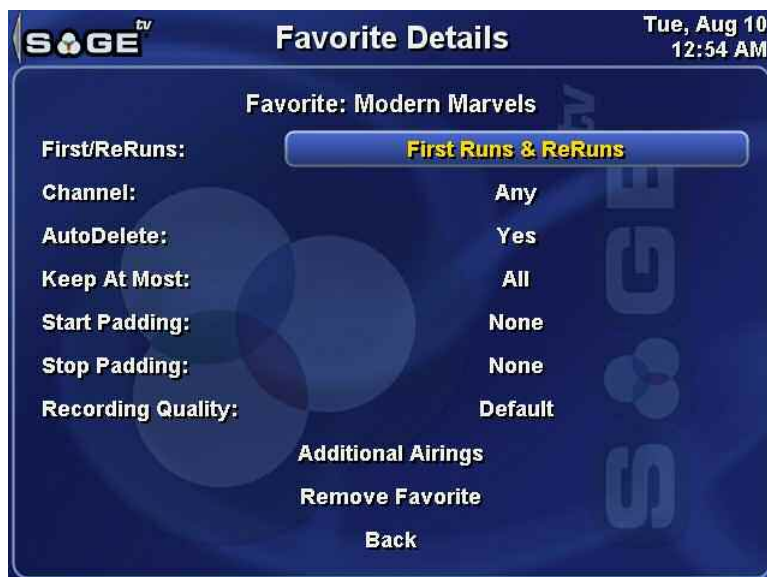
The **Favorite Details** menu lists all the current settings for the favorite listed near the top of the screen. Select any of the settings buttons to be presented with a pop-up dialog containing options for changing the setting. If you wish to cancel a pop-up without making any changes, use the Options command (keys: Escape or Ctrl+O; mouse: right-click) to dismiss the dialog. The selectable options on this menu are:

First/ReRuns – Every favorite can be set to record either only the first runs of each airing, only the reruns, or both first runs and reruns. The button displays the current setting.
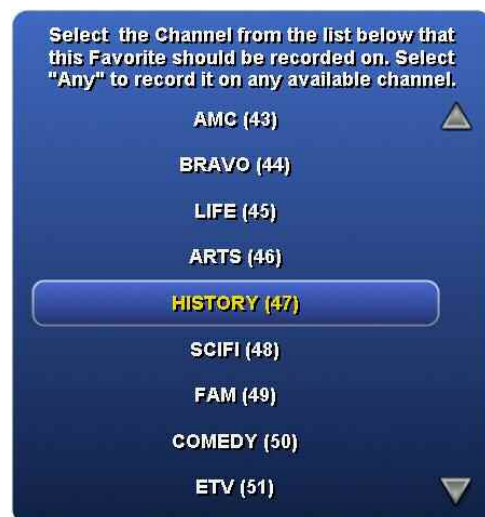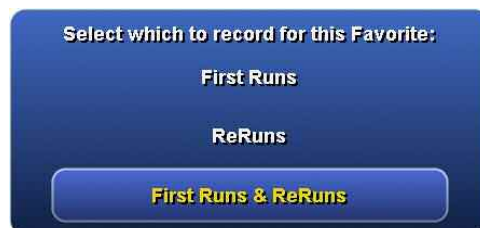
Channel – A favorite can be set to record on any channel or a single specific channel. If you have a favorite that you want to record on more than one specific channel, set one favorite to record on one channel, then create a new favorite for the same show on another channel.

Note: To add the same show as another favorite, first select an airing of that show on another channel, then add it as a new favorite. You will then be able to edit the new favorite to limit it to a specific channel, if you wish.

AutoDelete – The **Automatic** setting allows SageTV to automatically delete recordings of this favorite as needed. The **Manual** setting tells SageTV to never delete any recordings of this favorite, in which case you will have to delete the recordings with the **Delete** command when you no longer want to keep them.
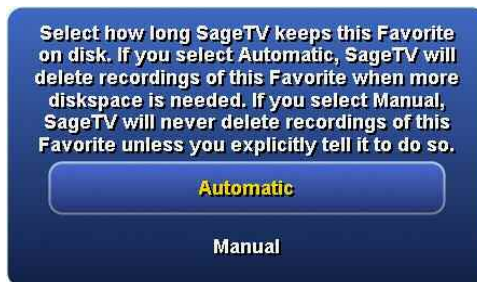
Keep At Most – This option instructs SageTV to keep no more than the specified number of recordings for this favorite, if AutoDelete is set to Automatic. When AutoDelete is set to Manual, SageTV will continue recording, but will not delete the older shows, so this setting will not be used. To keep all recordings of a favorite, set this value to 0.

Start Padding and **Stop Padding** – You may choose to add padding to the beginning or end of each recording of a favorite in order to make sure that the entire show is recorded. At times, a station's clock differs from SageTV's clock and a show may start slightly before a recording begins, or finish slightly after the recording ends. Adding padding time will enable the start and end of the show to be recorded.

Note: Adding extra time to the beginning or end of recordings may cause the recording to conflict with other shows which might need to record during the padded time period. Especially when using only single tuner, be careful that your padding time is not interfering with the scheduling of other recordings. Be sure to check the Recording Information screen for conflict information. If a conflict occurs, you will be notified with the conflict icon on the menu header. You can click on the icon to go directly to the Recording Information screen.
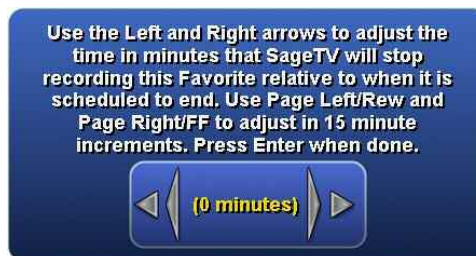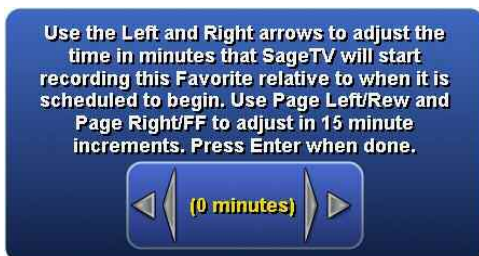
> When adjusting the start or stop padding time, the above pop-up dialogs are shown.
>
> Use the Left and Right arrow commands, or left-click on the and icons, to adjust the time by a single minute at a time. Use the Page Left (Ctrl+A) and Page Right (Ctrl+F) commands, or left-click on the and icons, to adjust the time by 15 minutes at a time. When done, use the Select command (Enter), or left-click on the time, to accept the changes and close the dialog. To cancel the changes, use the Options command (Escape or Ctrl+O), or right click anywhere. The left-pointing arrows decrease the total recording time, while the right-pointing arrows increase the recording time.

Recording Quality – Allows setting the recording quality to be used for every recording of the favorite. A pop-up menu of recording quality choices will be shown.

Additional Airings – Go to the Additional Airings menu, where upcoming airings for this favorite will be displayed. All future airings in the EPG that meet the criteria of the favorite's settings will be listed, usually covering approximately the next two weeks. **Note:** If a favorite is limited to a specific channel, only those airings of the show on that channel will be displayed.

Remove Favorite – If you wish to remove a favorite, perhaps because the show no longer airs, select this option. A confirmation dialog will be shown, asking whether it really ought to be deleted.

Note: If **Intelligent Recording** is turned **off**, SageTV is initially configured to delete all recordings that are not favorites or marked as manual recordings. By removing the favorite, shows previously recorded under this favorite's settings will no longer be considered favorites and will be deleted. If you wish to keep those recordings, mark them as manual recordings with the Record command before removing the favorite. This auto-deletion of non-favorites and non-manual recordings can be turned off by editing the SageTV.properties file.

See the seeker/clear_partials_and_unwanted_when_ir_off property.

Back – Issues the Back command to return to the screen where you previously were.

Create Timed Recording

Use the Left arrow or click on ◀ to go to the Schedule Recordings menu.
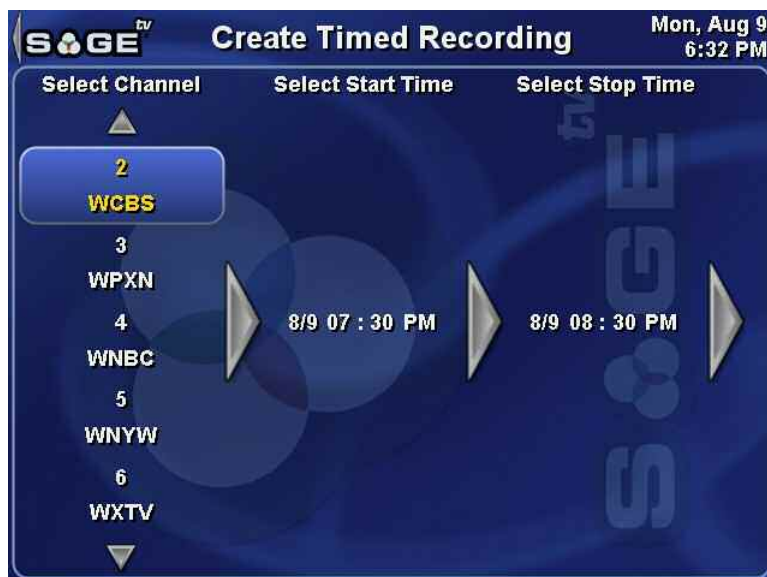
Timed recordings will record during the time period you specify, regardless of what the EPG says is airing at that time. You will need to specify a channel, start time, and stop time for the recording.

Channel Selection

To select the channel for the recording, use the Up, Down, Page Up, and Page Down commands to scroll through the list. After highlighting the desired channel, use the Right arrow to select the channel and proceed to selecting the start time. **Mouse:** Click on the ▲ and ▼ icons to scroll with the mouse. Left-click on the desired channel.

Start and Stop Time

After choosing the channel, choose the recording's start and stop times. Use the Up and Down commands to adjust the date, hour, minute, and AM/PM settings. After setting each option, continue to the next field by using the Right arrow. After setting all fields, use the Right arrow to continue to the next screen, where you will select the Recurrence option. **Mouse:** Point to each field and adjusting the values by clicking on the ▲ and ▼ icons, which will appear. When done, click on the far right ▶ icon to continue to the Recurrence menu.

Recurrence

Use the Left arrow or click on ❙ to go to the Create Timed Recording screen.

Choose how often this timed recording should be scheduled.
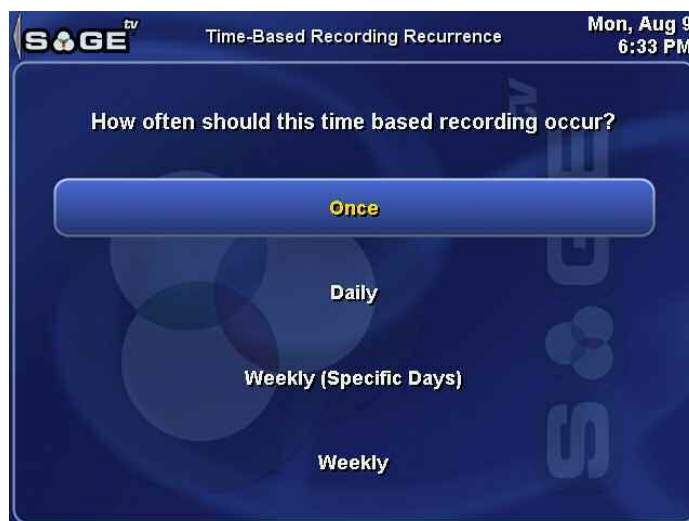
Once – The recording will be scheduled one time only.

Daily – The recording will be scheduled to occur at the same time every day.

Weekly (Specify Days) – A pop-up menu will appear, where you can choose which days of the week to schedule the timed recording. Select each day when the recording should occur, then select **Done**.

Weekly – The recording will be scheduled on the same day and at the same time every week.

Canceling a Timed Recording

To cancel a timed recording, go to the Recording Schedule and select one of the entries for the timed recording (or the only one, if it doesn't recur). On the Program Information screen, select **Record Options**. In the resultant pop-up, select **Cancel Recording**.

Note: All occurrences of the selected timed recording will be deleted, not just the individual schedule entry that was chosen.

Recording Information

The header of all menus will contain the ⚠ icon when there is at least one unresolved scheduling conflict. Clicking on the icon jumps immediately to this **Recording Information** menu.

Use the Left arrow or click on ⏐ to go to the Schedule Recordings menu.

The list of recording conflicts is shown.
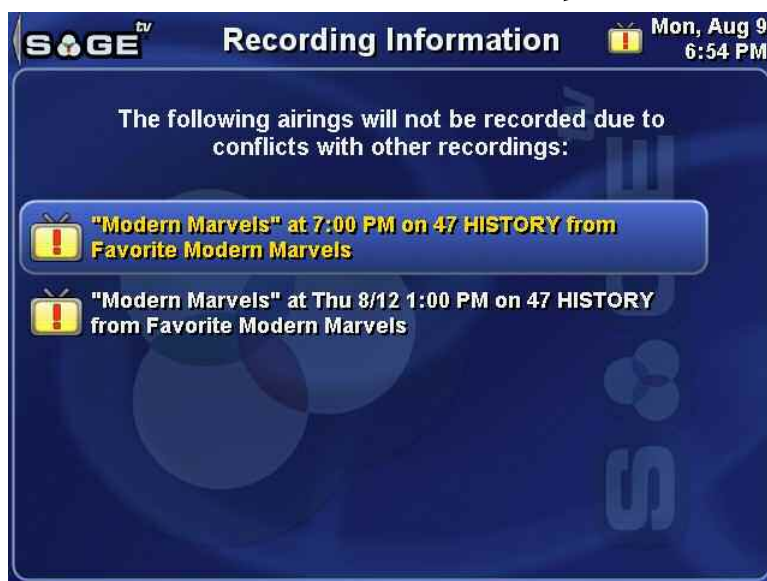
During the scheduling process, SageTV makes an attempt to record all the shows that it is asked to record, including deciding which of multiple airings of a show is the best one to record so that it causes the fewest conflicts with other shows that are to be recorded; however, there are times where no amount of shuffling of the recording schedule will allow every single requested recording to be included in the schedule. In these cases, SageTV creates a conflict notification, indicates the conflict on all the menu headers with the ⚠ icon, and adds the conflict information to the **Recording Information** menu with the same ⚠ icon next to the list item. Conflicts that still exist, but where you have chosen what action to take, no longer show that icon next to its list entry.

Conflict Options

Select a conflict from the list to see a pop-up menu with the options that are available for dealing with that conflict. The options vary, depending on the circumstances that caused the conflict, but selecting any option other than Close will resolve the conflict: the conflict will still be listed, but it will not have the icon indicating that attention is needed. Selecting **Close** will close the pop-up, but will not resolve the conflict; the notification icon will still remain.
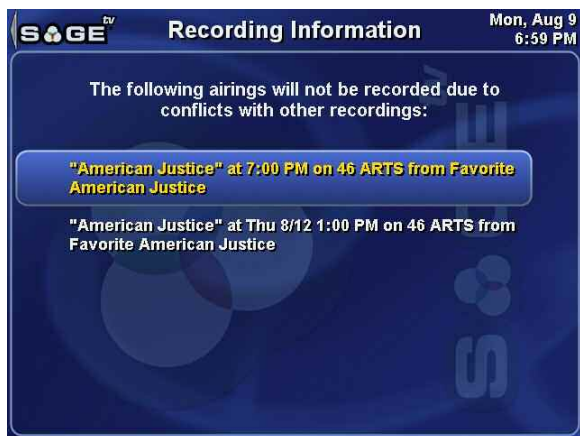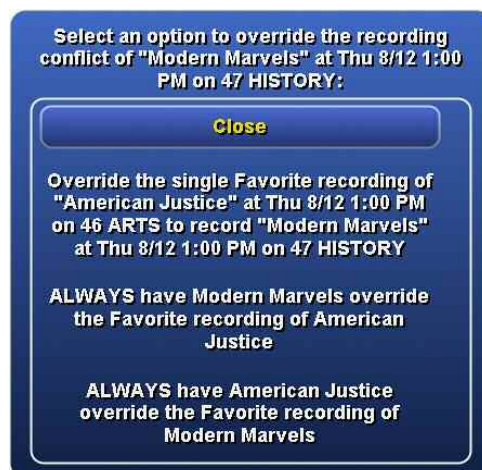
After you have chosen an option for dealing with the conflicts, there will no longer be a notification icon visible.

Note: It is not necessary to select any option for a conflict. SageTV will continue to record the rest of the shows that are in the recording schedule, only skipping those shows that are listed as conflicts.

Music Jukebox

Use the Left arrow
or click on ◁ to go
to the Main Menu.

If **Random Playback** is
enabled, a green dot
will be visible.
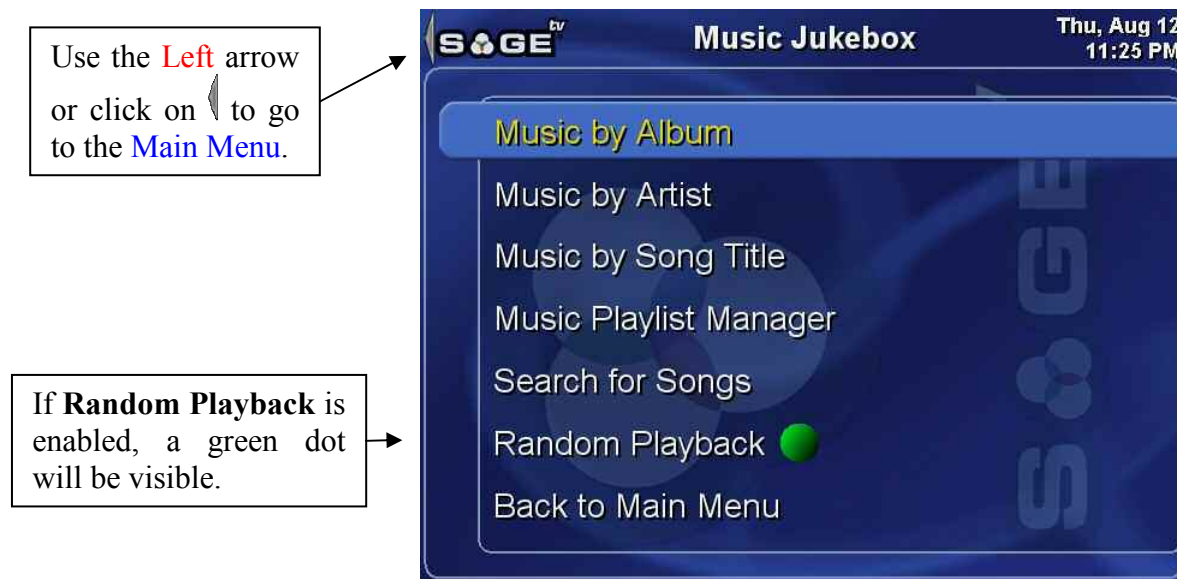
To play music in SageTV, add the base directory where your music files are stored as one of the Library Import Directories, as defined in Detailed Setup: General Settings. SageTV will then search it and all of its subdirectories for music files and will add them to SageTV's list of music.

Note: SageTV can import and play MP3 and WAV files.

The **Music Jukebox** menu contains links to other menus where you can manage and play music.

Music by Album – Go to the Music by Album display to see a list of all the albums in your music collection.

Music by Artist – Go to the Music by Artist display to see a list of all the artists in your music collection.

Music by Song Title – Go to the Music by Song Title display to see a list of all the song titles in your music collection.

Music Playlist Manager – Go to the Music Playlist Manager, where you can view and manage all your music playlists.

Search for Songs – Go to the Search by Song Title menu.

Random Playback – Toggles whether random playback is enabled or not. When enabled, a green dot will be displayed next to this menu item.

Back to Main Menu – Return to the Main Menu.

Music by Album

Use the Left arrow or click on ◁ to go to the Music Jukebox.

Select any of the letters to jump to that part of the alphabetized list.

The entire music collection is displayed, listed by album, and is sorted by the album title or by the artist name.

If the music files have album art embedded in them, the list of albums will include those images.

Select an album to see its Album Detail.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

Music by Artist – Go to the Music by Artist display to see a list of all the artists in your music collection.

Sort by Album – Sorts the album list alphabetically by the album title.

Sort by Artist – Sorts the album list alphabetically by the artist name.

Search – Go to the Search by Song Title menu.

Album Detail

Use the Left arrow or click on ◁ to go to the Music by Album menu.

The album title, artist, and album art (if available) is displayed.

A scrollable list of all songs on the album is shown.

Select a song title for Song Options, page 65.

If a song is currently playing, it will be displayed at the bottom of the screen.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

Music by Album – Go to the Music by Album display to see a list of all the albums in your music collection.

Add to Playlist – A pop-up menu will ask to add the entire album to one of your playlists. If no playlists have been created yet, the list will be empty and only the Cancel option will be available. Select **Cancel** to close the pop-up without adding the album to any playlist.

Previous Album – Display the previous album in the collection.

Next Album – Display the next album in the collection.

Visualizations – If a song is currently playing, this choice will be visible. Select it to go to Music Playback.

Music by Artist

Use the Left arrow or click on ❙ to go to the Music Jukebox.

A scrollable list of all artists in the music collection is shown, sorted alphabetically.

Select an artist to see all the songs by that artist: Music by Artist's Name.

If a song is currently playing, it will be displayed at the bottom of the screen.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

Music by Album – Go to the Music by Album display to see a list of all the albums in your music collection.

Music Playlists – Go to the Music Playlist Manager, where you can view and manage all your music playlists.

Search – Go to the Search by Song Title menu.

Visualizations – If a song is currently playing, this choice will be visible. Select it to go to Music Playback.

Music by Artist's Name

Use the Left arrow or click on ◀ to go to the Music by Artist.

The name of the selected artist is shown as part of the menu title

Music by Dire Straits   Thu, Aug 12 11:34 PM

Jukebox Home
Music by Artist
Search
Visualizations

1. Brothers in Arms
2. Down to the Waterline
3. Money for Nothing
4. Portobello Belle [Live]
5. Private Investigations
6. Romeo and Juliet
7. Sultans of Swing
8. Telegraph Road [Live, Remix]
9. Tunnel of Love

Now Playing: Everywhere by Fleetwood Mac

A scrollable list of all the songs by the named artist is shown, sorted alphabetically.

Select a song title for Song Options, page 65.

If a song is currently playing, it will be displayed at the bottom of the screen.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

Music by Artist – Go to the Music by Artist display to see a list of all the artists in your music collection.

Search – Go to the Search by Song Title menu.

Visualizations – If a song is currently playing, this choice will be visible. Select it to go to Music Playback.

Music by Song Title

Use the Left arrow or click on ◁ to go to the Music Jukebox.

A scrollable list of all the songs in the entire music collection is shown, sorted alphabetically by title or artist.

Select a song title for Song Options, page 65.

If a song is currently playing, it will be displayed at the bottom of the screen.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

Sort by Title – Sorts the list of songs by their titles.

Sort by Artist – Sorts the list of songs by their artist names.

Search – Go to the Search by Song Title menu.

Visualizations – If a song is currently playing, this choice will be visible. Select it to go to Music Playback.

Song Options

When an individual song is selected from a list, a pop-up menu will appear with these options to choose from:

- ⊕ **Cancel** – Close the pop-up without making any menu choice.

- ⊕ **Play Song Now** – Begin playing the currently highlighted song.

- ⊕ **Add to Playlist <name>** – Any playlists that have recently been used will be listed for immediate selection. The currently highlighted song will be added to the selected playlist.

- ⊕ **Add to Playlist…** – Displays another pop-up listing all available playlists. The currently highlighted song will be added to the playlist selected from that menu. If no playlists have been created yet, the list will be empty and only the Cancel option will be available. Select **Cancel** to close the pop-up without adding the song to any playlist.

Music Playlist Manager

Use the Left arrow or click on ◀ to go to the Music Jukebox.

A scrollable list of all the available playlists is shown in the order they were created.

Select a playlist to go to Music Playlist Details.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

New Playlist – Go to the Create Playlist screen, where you can enter a name for a new playlist.

Music by Album – Go to the Music by Album display to see a list of all the albums in your music collection.

Music by Artist – Go to the Music by Artist display to see a list of all the artists in your music collection.

Music Playlist Details

Use the Left arrow or click on ❘ to go to the Music Playlist Manager.

A scrollable list of all the songs in the playlist is shown in the order the songs were added.

Select a song for an option to remove the song from the playlist.

Use the Right arrow, or click on the ▷ icon, to change a song's position in the playlist.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

Play Playlist – Begin playing the songs in the playlist, in the sequence they are listed.

New Playlist – Go to the Create Playlist screen, where you can enter a name for a new playlist.

Rename Playlist – Display a pop-up dialog asking for a new name for the current playlist. Simply type in a new name for the playlist and press Enter.

Delete Playlist – Display a pop-up dialog asking to confirm whether the current playlist should be deleted. If the playlist is deleted, you will be returned to the Music Playlist Manager.

Remove a Song from the Playlist

Select a song in the playlist for an option to remove the song form the playlist.

Change a Song's Position in the Playlist

While a song is highlighted, use the Right arrow, or click on the ▷ icon, to change the song's position in the playlist. When the song reorder mode is entered, the highlighted song will change its display to include additional icons. While in reorder mode, you may do the following:

- ☯ Use the Left arrow, or click on the ◁ icon, to **exit reorder mode**.

- ☯ Use the Up arrow, or click on the △ icon, to move the song up in the list. This option will not be available if the song is in the #1 position.

- ☯ Use the Down arrow, or click on the ▽ icon, to move the song down in the list. This option will not be available if the song is in the last position.

Create Playlist

Entry field for the name of the new playlist.

These are the characters you can Select to enter as part of playlist name. You can also simply type using the keyboard.

Use **Back** to return to the previous menu without creating a new playlist, **Erase** to clear the last character entered (or use Backspace on the keyboard), and **Clear** to clear the entry field.

Select **Done** to when you are finished entering the name for the new playlist.

After entering a name for the new playlist, you will be returned to the Music Playlist Manager, with the new playlist added to the end of the list of existing playlists. The new playlist will not contain any albums or songs.

Search by Song Title

Use the Left arrow or click on ◖ to go to the Music Jukebox.

Use **Back** to return to the Music Jukebox, **Erase** to clear the last character entered (or use Backspace on the keyboard), and **Clear** to clear the entry field.

Enter the search text above the list of characters you can enter. All songs containing the search text will be found.

Select the characters to enter as search text. You can also simply type using the keyboard, then arrow over to the results list.

The list of search results is dynamically updated as the search text is entered. Select one of the results to see Album Detail for the album that contains the song.

Menu choices available:

Jukebox Home – Return to the Music Jukebox.

Music by Album – Go to the Music by Album display to see a list of all the albums in your music collection.

Music by Artist – Go to the Music by Artist display to see a list of all the artists in your music collection.

Music by Title – Go to the Music by Song Title display to see a list of all the song titles in your music collection.

Media Library & DVD

Use the Left arrow or click on ◁ to go to the Main Menu.

The **Media Library & DVD** menu contains an option to play a DVD and has links to other menus where you can manage your video and picture libraries.

Play DVD – SageTV will play a DVD that is in the DVD drive on your computer. It will not able to play a DVD that is in the DVD drive of another computer on your network. If it finds a DVD, DVD Playback will begin. If no DVD is found, a notification will be displayed, as shown to the right.

Archived Shows Recorded with SageTV – Go to the Archived SageTV Recordings menu, which contains a list of recordings which were made by SageTV and then which you moved to the library.

Imported Video Files – Go to the Video Library, which contains all the videos imported into SageTV which were not recorded by SageTV.

Imported Picture Files – Go to the Picture Library, which contains all the pictures imported into SageTV. Pictures may be viewed individually or as slideshows.

Refresh Media Library – Tells SageTV to check all the Library Import Directories, as defined in Detailed Setup: General Settings, to refresh its list of imported media files.

Back to Main Menu – Return to the Main Menu.

Archived SageTV Recordings

Use the Left arrow or click on ◁ to go to the Media Library & DVD menu.

The information area at the top displays a synopsis of the show's detailed description.

Video previews may be shown in the upper right corner.

All list entries are individual shows; recordings are not categorized on this menu.

Recordings display their time of recording and channel name or logo.

Select the entry to watch it. Use the Right arrow or Info command to see the show's Recording Detail.

List entries may have a **border color** to signify a status: Favorites – white; Manual Recordings – red; Shows marked as Don't Like – black; Live TV and Intelligent Recordings – No border color.

The **Archived SageTV Recordings** menu lists all the TV shows that SageTV has recorded and that you have moved to the library from the SageTV Recordings menu. Highlighting an individual recording will cause some of its recording information to be displayed between the menu header and the list of recordings.

After highlighting an individual recording, you may use the Select command to initiate Video Playback for the show. **Note:** If you have enabled videos to display in a window on menus, the recording will begin playing in the upper right preview window. Select it again to begin full-sized playback.

To see the full details and additional options for a recording, left-click on an individual recording with the mouse or highlight it and then use the Right arrow or the Info command to go to the Recording Detail screen for that recording.

Video Library

Use the Left arrow or click on (to go to the Media Library & DVD menu.

The information area at the top displays the file name for the imported video.

Video previews may be shown in the upper right corner.

All list entries are individual shows; videos are not categorized on this menu.

Videos display their filename and creation time.

Select the entry to watch it. Use the Right arrow or Info command to see the video's Recording Detail.

List entries have no border color.

The **Video Library** menu lists all imported videos that SageTV finds in the Library Import Directories, as defined in Detailed Setup: General Settings.

Note: SageTV can import and play AVI and MPEG files, and DVDs stored on a hard drive (see: Appendix I: Playing DVDs from the Hard Drive).

Highlighting an individual video will cause some of its information to be displayed between the menu header and the list of recordings. That information may consist of no more than the file name and possibly the video's creation time and length.

After highlighting an individual video, you may use the Select command to initiate Video Playback for the show. **Note:** If you have enabled videos to display in a window on menus, the recording will begin playing in the upper right preview window. Select it again to begin full-sized playback.

To see details and additional options for a video, left-click on an individual recording with the mouse or highlight it and then use the Right arrow or the Info command to go to the Recording Detail screen for that video.

Picture Library

Use the Left arrow or click on ◁ to go to the Media Library & DVD menu. If viewing a subfolder, you will be returned to the parent folder instead.

When viewing a subfolder, use the Left arrow or click on ◁ to return to the parent folder.

Select an **image** to view that individual picture on the Picture Viewing screen.

Select a **folder** to change the view to the pictures and folders in that subfolder.

The **Picture Library** can be used to view JPG and GIF images.

The **Picture Library** menu lists all imported pictures that SageTV finds in the Library Import Directories, as defined in Detailed Setup: General Settings. Pictures found in subdirectories under the import directories are listed in subfolders in the **Picture Library.**

Note: SageTV can import and display JPG, GIF, and PNG files.

The menu choices available here are:

Sort by Name – Sorts the list of pictures and folders by their names.

Sort by Date – Sorts the list of pictures and folders by their "Date Modified" dates.

Back – When viewing the main picture folder: return to the Media Library & DVD menu. When viewing a subfolder: return to the parent folder.

Slideshow – Begin a slideshow of all the images in the current folder plus all subfolders. The pictures will be shown on the Picture Viewing screen.

Options – Displays a pop-up menu where you can set the slideshow playback options. See the full description, below.

Thumbnails – Forces SageTV to create thumbnails for all the images in the **Picture Library**. SageTV will automatically create the thumbnails as they are needed; however, by using this option to tell SageTV to create all the thumbnails, they won't need to be created as you browse through your images. Creating the thumbnails now will take some time, but the benefit will be fewer delays as you browse your pictures later.

Main Menu – Go to the Main Menu.

Setting the Slideshow Options

Selecting **Options** from the **Picture Library** menu displays a pop-up menu of all the configurable slideshow options:

- ☮ **Automatically Advance Slideshow** – This is a toggle option between **Yes** and **No**, determining whether the slideshow will advance to the next image on its own or if input is needed. See Picture Viewing for commands to manually advance the slideshow.
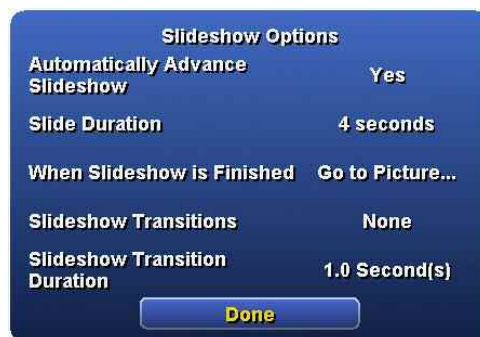
- ☮ **Slide Duration** – The number of seconds SageTV will pause before automatically continuing to the next image, if the above option is set to **Yes**. Enter a time value and press Enter. Use the Options command (Ctrl+O, Escape, right-click) to cancel this dialog without changing the current time setting.
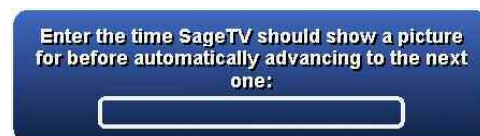
- ☮ **When Slideshow is Finshed** – Tells SageTV what to do when the slideshow is done. Another pop-up menu will appear with the possible choises: **Go to Picture Library**, or **Restart Slideshow**. Choose **Do Nothing** or use the Options command to keep your current setting.

⌬ **Slideshow Transitions** – Toggles between **None** and **3DFade**. In order to use the **3DFade** transition option, 3D Acceleration must be **Enabled** in Detailed Setup: Advanced Settings.

⌬ **Slideshow Transition Duration** – Sets the transition duration time if the **3DFade** transition option is selected, above. Enter the number of **tenths** of a second to use for the duration. For example: in order to use a duration time of 1.5 seconds, enter 15.

> Enter the time in TENTHS of a second that
> SageTV should spend performing a transition
> between pictures in a slideshow:

⌬ **Done** – Close the slideshow options dialog.

Chapter 4: Media Playback

Media Types

SageTV supports four basic types of media, and each type has its own specialized playback interface:

⚇ **Videos** – Videos include SageTV recordings of TV shows and videos that have been imported into the Video Library. SageTV looks for library videos in the Library Import Directories, as defined in Detailed Setup: General Settings.

⚇ **DVD** – DVDs can be played from a DVD drive in the same computer SageTV is running on. DVDs cannot be played over a network from a DVD drive on another computer.

⚇ **Music** – The Music Jukebox can play music files stored on the computer in any of the Library Import Directories, as defined in Detailed Setup: General Settings. SageTV plays music file stored in the MP3 format.

⚇ **Pictures** – Pictures may be viewed individually or as a slideshow. SageTV can display images stored in these formats: JPEG or GIF. As with music and library videos, SageTV looks for pictures in the Library Import Directories, as defined in Detailed Setup: General Settings.

Using the SageTV Media Playback Interface

While most of the playback interfaces are similar in terms of which commands are available, there are some differences to be aware of. Therefore, each of the four interfaces will be described below, along with the most commonly used commands. See the full list of commands for a complete description of all available commands.

A Note About Time Scroll Playback Mode

One interesting command that is not listed in the playback sections below, because it is not assigned to a keystroke by default, is the Time Scroll command, which offers another way to jump forward or backward while playing media, in addition to the Skip Forward, Skip Bkwd, Skip Fwd #2, and Skip Bkwd #2 commands. It operates quite differently from those commands, however.

The first use of the Time Scroll command enters **time scroll mode**. If playback has not been paused, playback will continue while the time indicator will change color. While in this mode, you may:

☺ Use the Skip Forward and Skip Bkwd commands to move the time indicator icon forward/backward 2 minutes 30 seconds for each time one of these commands is used. (This time is adjustable with the ui/time_scroll_amount property.) For now, playback will continue at the current time; only the time indicator will move.

☺ Use the Skip Fwd #2 and Skip Bkwd #2 commands to move the time indicator icon directly to the end or beginning of the media, respectively. For now, playback will continue at the current time; only the time indicator will move.

To exit time scroll mode:

☺ Use the Time Scroll command a second time to exit time scroll mode and begin playback at the time indicator icon's current location. If you have jumped to the end of the media, playback of that media will end. If playback was paused, it will still remain paused after exiting time scroll mode. **Note:** the time indicator icon does not move on its own while in time scroll mode; if you let playback continue for a short period without using any FF or REW commands and then exit time scroll mode using the command a second time, playback will jump back to where the indicator was.

☺ Do nothing for a short delay period, or use commands such as Pause, Play, or Play/Pause, to cancel time scroll mode and continue playback at the current playback location, regardless of where the time indicator icon is currently shown.

If you wish to make use of the time scroll mode functionality, you will need to assign a key or remote control IR code to it. See the Link Infrared/Keystroke to SageTV Command option in Detailed Setup.

Video Playback

A sample video playback display is shown below, with the On-Screen Display (OSD) visible. The OSD will appear after using most playback control commands and will turn off after a short timeout period. Alternatively, you can use the Info command to toggle the OSD on or off.

The upper left displays the channel where a recording aired, or the current channel for live TV. If playback is live TV, the △ and ▽ icons can be used to change the channel with the mouse. If SageTV has been configured to use channel logos, the channel logo will be displayed when available.

Note: This section is not displayed when playing imported video files.

The middle section of the top displays an abbreviated form of the recording's detailed information, including the show title, episode name, date and time when the show was recorded, and a description of the show's contents.

Manual recordings will be outlined in Red. Favorites will be outlined in White. All others have gray borders.

Note: This section is not displayed when playing imported video files.

In the upper right is a display of the current date and time, along with a volume indicator showing whether the volume has been muted (red bars) or is audible (green bars). The volume may be controlled with the mouse by clicking on the green bar. Clicking on the 🔊 icon will turn the sound on or off.

At the bottom is the time status display, with playback paused here, showing the current point of playback, the overall length of the recording, and mouse icons to control playback, if mouse icons have been enabled. Using the mouse, clicking on any point on the time bar moves the playback point to that position. Clicking on the icons performs these functions:

❚❚ Pause   ▶ Play   ◀◀ Rewind   ▶▶ Fast Forward

Time Bar

You may notice that the time bar often appears different from that shown above, which is for a fully complete recording. While playing a partially recorded show, such as during live TV, the time bar may appear as below:

The colors on the time bar display represent the four possible indicator states:

☯ **Red** – This is the portion of the show that is in the past and has not been recorded. If you have changed the channel and then returned to a previously watched channel during the same show, you may notice that there is a red section to indicate the portion of the show not recorded in between recorded sections.

☯ **White** – This part of the show has been viewed and is now considered Watched by SageTV. If you exit a show that has not yet been completely watched, SageTV will remember how much you have watched and continue from that point the next time you watch that recording.

☯ **Green** – This is the remainder of the show that has already been recorded, but not yet watched.

☯ **Clear** – This represents the portion of the show that has not yet been recorded since it is beyond the current time and thus has not aired yet. You cannot fast forward into the clear section, since it represents the future.

Playback Commands

Most SageTV commands are available during video playback. The most commonly used ones and their default key assignments are listed below. Please see Appendix E: Remote Controls for the default Hauppauge and Streamzap remote layouts and remember that you can customize your key assignments for every command. The SageTV Commands customization section contains full details of all the available commands, their default keys, and how to customize their assignments.

Command	Keystroke	Function
Pause	Ctrl+S	Pause playback. If already paused, advance one frame.
Play	Ctrl+D	Resume playback if paused.
Play/Pause	Ctrl+Shift+S	Toggles between paused & playing. If playing, playback will pause. If paused, playback will resume.

Command	Keystroke	Function
Stop	Ctrl+G	Closes the file and stops playback. You will be returned to the Main Menu. For additional information, see the explanation for the **Close File** option, below.
Skip Forward	Ctrl+F	Fast Forward 10 seconds. (This time is adjustable with the videoframe/ff_time property.)
Skip Bkwd	Ctrl+A	Rewind 10 seconds. (This time is adjustable with the videoframe/rew_time property.)
Skip Fwd #2	Ctrl+F8	Fast Forward 2:30 – 2 minutes, 30 seconds. (This time is adjustable with the videoframe/ff_time2 property.)
Skip Bkwd #2	Ctrl+F7	Rewind 2:30. (This time is adjustable with the videoframe/rew_time2 property.)
Channel Up	Page Up, Ctrl+Up	If watching live TV, change to the next higher channel number.
Channel Down	Page Down, Ctrl+Down	If watching live TV, change to the next lower channel number.
Volume Up	Ctrl+R, Ctrl+Right	Increase audio volume.
Volume Down	Ctrl+E, Ctrl+Left	Decrease audio volume.
Mute	Ctrl+Shift+M	Toggle audio mute on or off.
TV	Ctrl+V	Return to the previous menu.
Home	Home	Moves directly to the Main Menu.
Guide	Ctrl+X	Moves directly to the LiveTV Guide.
Power	Ctrl+Z	Puts SageTV to sleep.
Info	Ctrl+I	Toggles the OSD on or off.
Record	Ctrl+Y	Toggles whether the show should be marked as a Manual Recording. If you are watching live TV, use this command to force SageTV to continue recording the show and save it for future viewing.
Full Screen	Ctrl+Shift+F	Toggles whether SageTV should make its Window full screen or not.
Options	Escape, Ctrl-O	Toggles the display of the Options pop-up menu for playback option choices. See the detailed description, below.

Command	Keystroke	Function
Num 0 – 9	0 – 9	Used to enter channel changes. While watching live TV, enter the channel number you wish to watch, then use the Select command (Enter key).

SageTV Recording Options Menu

Using the Options command while playing a SageTV recording will cause a pop-up menu to appear with additional options:

Cancel – Cancel the pop-up and close it. Using the Options command has the same result.

Detailed Info – Using this option while watching a recording in progress will take you directly to the Program Information menu. If you are watching a prerecorded show, you will go to the Recording Detail menu instead.

Main Menu – Go directly to the Main Menu.

SageTV Recordings – Go directly to the SageTV Recordings menu to view the list of recordings.

LiveTV Guide – Go directly to the LiveTV Guide to view the grid showing the list of shows on each channel.

Recording Schedule – Go directly to the Recording Schedule to view upcoming recordings.

Close File – Closes the file and stops playback. You will be returned to the Main Menu. Notes:

♻ If you are watching live TV, this command will also stop the recording process.

♻ If the live TV that you are watching is a show that was scheduled to record, the recording will continue; only playback will stop.

♻ If you are watching a prerecorded show, no recording process is affected.

Aspect Ratio Mode – Displays another pop-up menu where you can choose which aspect ratio to use for playback. The Aspect Ratio Mode can be one of the following choices:

⚙ **Close** – Cancel and close this menu.

⚙ **Fill** – Stretch the video to fill the SageTV playback area.

⚙ **Source** – Use the video source information to determine the payback aspect ratio.

⚙ **4x3** – Force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so.

⚙ **16x9** – Force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so.

Toggle Full Screen – Toggles whether SageTV should make its Window full screen or not.

Imported Video Library Options Menu

The pop-up menu that appears while playing an imported video library recording differs from the one displayed while playing SageTV recordings. The changed option is:

Video Library – Go directly to the Video Library menu to view the list of imported video files.

DVD Playback

DVD menus that are not part of the SageTV interface may be navigated by using the directional arrow keys and using the Select command to make menu selections. Those are the DVD's built-in menus that are shown on any DVD playback device and are not specific to SageTV. During playback, however, SageTV presents its own interface for controls such as pause, fast forward, rewind, etc.

A sample DVD playback display is shown below, with the On-Screen Display (OSD) visible. The OSD will appear after using most playback control commands and will turn off after a short timeout period. Alternatively, you can use the Info command to toggle the OSD on or off.

The upper left displays the DVD playback status information, including the DVD title, current chapter, and other current settings. The △ and ▽ icons can be used to change the chapter with the mouse.

In the upper right is a display of the current date and time, along with a volume indicator showing whether the volume has been muted (red bars) or is audible (green bars). The volume may be controlled with the mouse by clicking on the green bar. Clicking on the 🔊 icon will turn the sound on or off.

At the bottom is the time status display, with playback paused here, showing the current point of playback, the overall length of the video, and mouse icons to control playback, if mouse icons have been enabled. Using the mouse, clicking on any point on the time bar moves the playback point to that position. Clicking on the icons performs these functions:
        ❚❚ Pause   ▶ Play   ◀◀ Rewind   ▶▶ Fast Forward

Time Bar

Unlike video playback, where the time bar may include sections that have not been recorded, the DVD time bar always has the format seen above and presented here again:

The DVD playback time bar uses two colors:

- ♻ **White** – This part of the DVD has been viewed.

- ♻ **Green** – This is the remainder of the DVD that has not yet been watched.

Playback Commands

Most SageTV commands are available during DVD playback. The most commonly used ones and their default key assignments are listed below. Please see Appendix E: Remote Controls for the default Hauppauge and Streamzap remote layouts and remember that you can customize your key assignments for every command. The SageTV Commands customization section contains full details of all the available commands, their default keys, and how to customize their assignments.

Note: In addition to the usual playback commands, there are additional DVD-specific commands that are not originally assigned to any keys. To use them, you will need to assign keys or remote buttons to those commands.

Command	Keystroke	Function
Pause	Ctrl+S	Pause playback. If already paused, advance one frame.
Play	Ctrl+D	Resume playback if paused.
Play/Pause	Ctrl+Shift+S	Toggles between paused & playing. If playing, playback will pause. If paused, playback will resume.
Stop	Ctrl+G	Closes the file and stops playback. You will be returned to the Main Menu. For additional information, see the explanation for the **DVD Stop** option, below.
Skip Forward	Ctrl+F	Fast Forward 10 seconds. (This time is adjustable with the videoframe/ff_time property.)
Skip Bkwd	Ctrl+A	Rewind 10 seconds. (This time is adjustable with the videoframe/rew_time property.)
Skip Fwd #2	Ctrl+F8	Fast Forward 2:30 – 2 minutes, 30 seconds. (This time is adjustable with the videoframe/ff_time2 property.)
Skip Bkwd #2	Ctrl+F7	Rewind 2:30. (This time is adjustable with the videoframe/rew_time2 property.)

Command	Keystroke	Function
Channel Up	Page Up Ctrl+Up	Jump to the next DVD chapter.
Channel Down	Page Down, Ctrl+Down	Jump to the previous DVD chapter.
Volume Up	Ctrl+R, Ctrl+Right	Increase audio volume.
Volume Down	Ctrl+E, Ctrl+Left	Decrease audio volume.
Mute	Ctrl+Shift+M	Toggle audio mute on or off.
TV	Ctrl+V	Return to the previous menu.
Home	Home	Moves directly to the Main Menu.
Guide	Ctrl+X	Moves directly to the LiveTV Guide.
Power	Ctrl+Z	Puts SageTV to sleep.
Info	Ctrl+I	Toggles the OSD on or off.
Full Screen	Ctrl+Shift+F	Toggles whether SageTV should make its Window full screen or not.
Options	Escape, Ctrl-O	Toggles the display of the Options pop-up menu for playback option choices. See the detailed description, below.
Num 0 – 9	0 – 9	Used to enter the DVD chapter to play. Enter the chapter number you wish to watch, then use the Select command (Enter key).

Options Menu

Using the Options command will cause a pop-up menu to appear (see next page) with additional options and DVD playback controls. The list of choices do not all fit on one screen, so you can scroll down the list to see the remaining choices.

Cancel – Cancel the pop-up and close it. Using the Options command has the same result.

DVD Stop – Closes and stops DVD playback. You will be returned to the Main Menu. Playback will be ended, so you will be unable to use the Back command to return to viewing the DVD.

DVD Next Chapter – Jump to the next chapter.

DVD Previous Chapter – Jump to the previous chapter.

DVD Menu – Jump to the DVD's menu.

DVD Return – Returns the display from a submenu to its parent menu.

DVD Subtitle On/Off – Toggles whether DVD subtitles are to be displayed.

DVD Subtitle Language – Displays a pop-up menu where you can choose which language to use for subtitles.
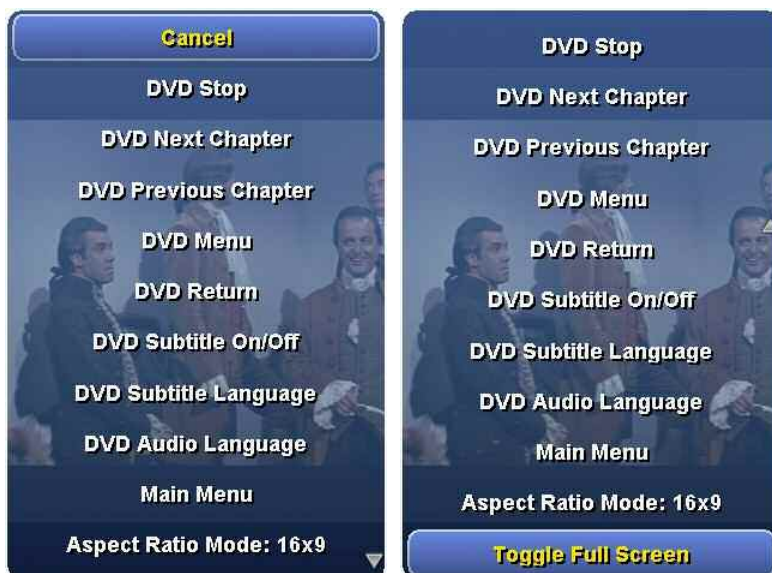
DVD Audio Language – Displays a pop-up menu where you can choose which language to use for audio playback.

Main Menu – Go directly to the Main Menu.

Aspect Ratio Mode – Displays another pop-up menu where you can choose which aspect ratio to use for playback. The Aspect Ratio Mode can be one of the following choices:

- ♲ **Close** – Cancel and close this menu.

- ♲ **Fill** – Stretch the video to fill the SageTV playback area.

- ♲ **Source** – Use the video source information to determine the payback aspect ratio.

- ♲ **4x3** – Force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so.

- ♲ **16x9** – Force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so.

Toggle Full Screen – Toggles whether SageTV should make its Window full screen or not.

Music Playback

A sample music playback display is shown below, with the On-Screen Display (OSD) visible. The OSD will appear after using most playback control commands and will turn off after a short timeout period. Alternatively, you can use the Info command to toggle the OSD on or off. The background consists of a visualization effect that changes with the music.

The upper left displays the music playback status information, including the song title, artist, album, and track information. If album art has been embedded in the music file, the image will be displayed. The △ and ▽ icons can be used to change to the next or previous song with the mouse.

In the upper right is a display of the current date and time, along with a volume indicator showing whether the volume has been muted (red bars) or is audible (green bars). The volume may be controlled with the mouse by clicking on the green bar. Clicking on the icon will turn the sound on or off.

At the bottom is the time status display, with playback ongoing here, showing the current point of playback, the overall length of the song, and mouse icons to control playback, if mouse icons have been enabled. Using the mouse, clicking on any point on the time bar moves the playback point to that position. Clicking on the icons performs these functions:

⏸ Pause   ▶ Play   ◀◀ Rewind   ▶▶ Fast Forward

Time Bar

The music time bar always has the format seen above:

The music playback time bar uses two colors:

♲ **White** – This part of the song has been played.

♲ **Green** – This is the remainder of the song that has not yet been played.

Playback Commands

Most SageTV commands are available during music playback. The most commonly used ones and their default key assignments are listed below. Please see Appendix E: Remote Controls for the default Hauppauge and Streamzap remote layouts and remember that you can customize your key assignments for every command. The SageTV Commands customization section contains full details of all the available commands, their default keys, and how to customize their assignments.

Command	Keystroke	Function
Pause	Ctrl+S	Pause playback.
Play	Ctrl+D	Resume playback if paused.
Play/Pause	Ctrl+Shift+S	Toggles between paused & playing. If playing, playback will pause. If paused, playback will resume.
Stop	Ctrl+G	Closes the file and stops playback. You will be returned to the Main Menu. For additional information, see the explanation for the **Close File** option, below.
Skip Forward	Ctrl+F	Fast Forward 10 seconds. (This time is adjustable with the videoframe/ff_time property.)
Skip Bkwd	Ctrl+A	Rewind 10 seconds. (This time is adjustable with the videoframe/rew_time property.)
Skip Fwd #2	Ctrl+F8	Fast Forward 2:30 – 2 minutes, 30 seconds. (This time is adjustable with the videoframe/ff_time2 property.)
Skip Bkwd #2	Ctrl+F7	Rewind 2:30. (This time is adjustable with the videoframe/rew_time2 property.)
Channel Up	Page Up, Ctrl+Up	Jump to the next track in the playlist, album, song list, depending on where playback was started. If random playback is enabled, the next song selection will be randomly chosen.

Command	Keystroke	Function
Channel Down	Page Down, Ctrl+Down	Jump to the previous track. See comments for Channel Up, above.
Volume Up	Ctrl+R, Ctrl+Right	Increase audio volume.
Volume Down	Ctrl+E, Ctrl+Left	Decrease audio volume.
Mute	Ctrl+Shift+M	Toggle audio mute on or off.
TV	Ctrl+V	Return to the previous menu.
Home	Home	Moves directly to the Main Menu.
Guide	Ctrl+X	Moves directly to the LiveTV Guide.
Power	Ctrl+Z	Puts SageTV to sleep.
Info	Ctrl+I	Toggles the OSD on or off.
Full Screen	Ctrl+Shift+F	Toggles whether SageTV should make its Window full screen or not.
Options	Escape, Ctrl-O	Toggles the display of the Options pop-up menu for playback option choices. See the detailed description, below.
Num 0 – 9	0 – 9	Used to enter the track number to play. While a song is playing, either enter a 2-digit number or a single digit followed by Select to jump to that track number on the current album. (No effect while playing a playlist.)

Options Menu

Using the Options command will cause a pop-up menu to appear with additional options:

Cancel – Cancel the pop-up and close it. Using the Options command has the same result.

Album Info – Jumps to the Album Detail screen for the current song's album.

Main Menu – Go directly to the Main Menu.

Music Jukebox – Go directly to the Music Jukebox menu.

Close File – Closes and stops music playback. You will be returned to the Main Menu. Playback will be ended, so you will be unable to use the Back command to return to the music playback display.

Random Playback Enabled/Disabled – This selection reflects whether random playback is currently enabled or disabled. If you select it, a pop-up menu will appear, where you can choose to enable or disable random playback.

Toggle Full Screen – Toggles whether SageTV should make its Window full screen or not.

Picture Viewing

Viewing pictures in SageTV consists of viewing an individual image or a series of images, shown as a slideshow. Whether you have chosen to view an individual image or a slideshow, only a single image is displayed on the screen at one time. Images are shown full size, unless they are too large to fit inside the SageTV window, in which case they will be shrunk to fit the space available while retaining their original proportions.

Images whose dimensions match the SageTV window will completely fill the display area.	This image is full sized and does not exceed the SageTV window size. No resizing is needed.	This image is larger than the SageTV window. It has been resized to fit the vertical dimension.

Commands

A limited number of commands are available during picture viewing. The available commands and their default key assignments are listed below. Please see Appendix E: Remote Controls for the default Hauppauge and Streamzap remote layouts and remember that you can customize your key assignments for every command. The SageTV Commands customization section contains full details of all the available commands, their default keys, and how to customize their assignments.

Single Image Viewing

Command	Keystroke	Function
Back	Alt+Left	Ends viewing the image and returns to the Picture Library.
Select	Enter	Issues the Back command.
Left	Left Arrow	Issues the Back command.
	Escape	Issues the Back command.
Home	Home	Moves directly to the Main Menu.

Slideshow Playback

Command	Keystroke	Function
Pause	Ctrl+S	Pauses playback.
Play	Ctrl+D	Resumes playback if paused.
Select	Enter	Proceeds to the next image in the slideshow. If the current image is the last one, the slideshow will restart if the slideshow options are set to do so, or the slideshow will end.
Up	Up Arrow	Proceeds to the next image in the slideshow. If the current image is the last one, the slideshow will restart if the slideshow options are set to do so, or the slideshow will end.
Down	Down Arrow	Returns to the previous image, if not viewing the first image.
Back	Alt+Left	Ends viewing the image and returns to the Picture Library.
Left	Left Arrow	Issues the Back command.
	Escape	Issues the Back command.
Home	Home	Moves directly to the Main Menu.

Mouse Control

While viewing an image, mouse control consists of the following:

Left, Middle, or Right Button – Proceeds to the next image if viewing a slideshow. Returns to the Picture Library if viewing an individual image.

Back Button – Ends viewing the image and returns to the Picture Library.

Chapter 5: Configuring SageTV

SageTV Setup

SageTV setup consists of using the Setup Wizard to configure the encoding devices, choosing whether to enable or disable certain channels through Channel Setup, possibly setting Parental Controls, and configuring various options in Detailed Setup. All of these setup options are reached through the Setup Menu, described on the next page.

In addition to the options that you can from within SageTV, there are some additional advanced settings that can be changed by editing the Sage.properties or SageClient.properties file. Some of these advanced settings are explained in Appendix A: SageTV Properties Settings.

Setup Menu

Use the Left arrow or click on ◀ to go to the Main Menu.

From the **Setup Menu**, you can reach all of the configuration options for SageTV:

Setup Wizard – Configure new or existing recording sources via the Setup Wizard Summary.

Channel Setup – Decide which channels to enable or disable and which to remap. If SageTV uses multiple sources with multiple lineups, then a pop-up dialog will ask which lineup is to be configured on the Channel Setup menu.

Parental Controls – Go to Parental Controls, where you can control the types of TV shows requiring a password for viewing. If you have set and enabled a password for parental controls, you will be asked to enter the password after selecting this menu item. If the wrong password is entered, access to Parental Controls will be denied.
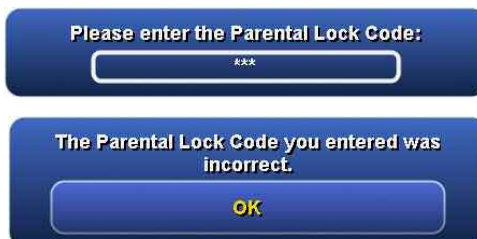
Detailed Setup – Go to Detailed Setup, where you can configure all the setup options available within SageTV.

Enter/Exit Full Screen Mode – Toggle whether SageTV is displayed in a window or whether it is displayed full screen.

System Information – View the current status of the SageTV system on the System Information screen.

Back to Main Menu – Return to the Main Menu.

Setup Wizard Summary

Use the Left arrow or click on ❙ to go to the Setup Menu.

The already-configured sources are listed. Select an existing source to see its Source Details.
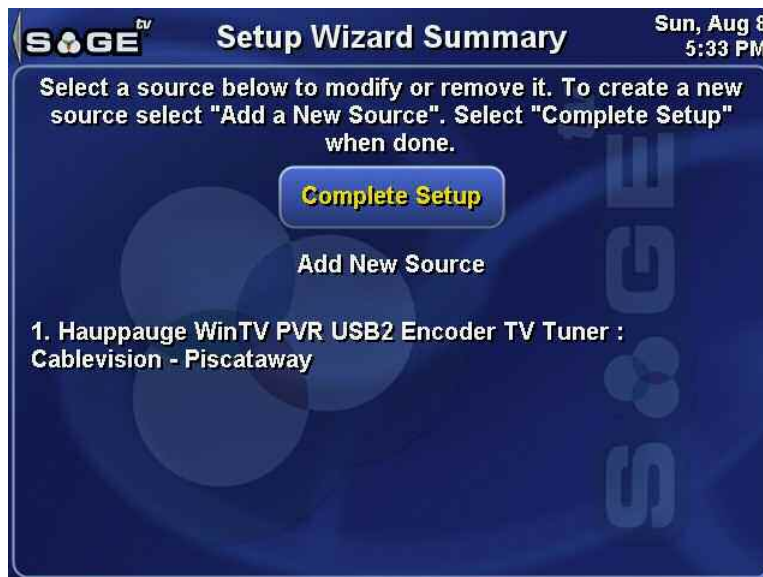
The **Setup Wizard Summary** displays a list of the current recording sources and allows the addition of new sources. SageTV supports multiple recording sources, so while the image shown above only lists only one source, there could be multiple sources listed on this menu.

When you have finished setup, select the **Complete Setup** button to return to the Setup Menu.

Select the **Add New Source** button if you have another source to be configured. You will then proceed through the Setup Wizard to set up the new source.

If you wish to see the details of one of the existing sources, select the desired source to go to Source Details, where you can view and change its configuration details.

Setup Wizard

The **Setup Wizard** is used to configure a new recording source for SageTV. Using the SageTV interface while going through the setup steps is the same as for the general SageTV menus. See Using the SageTV Menu Interface for more information.

SageTV is capable of using more than one source. Simply follow the step by step instructions provided below to configure one source at a time.

Note: Be sure to have the SageTV computer connected to the internet before using the **Setup Wizard**. SageTV uses that connection to download information for the available TV services and to download the programming guide data, in order to have TV listings.

Step 1: Select Device

Choose which capture device to configure for the new recording source. Continue to step 2.
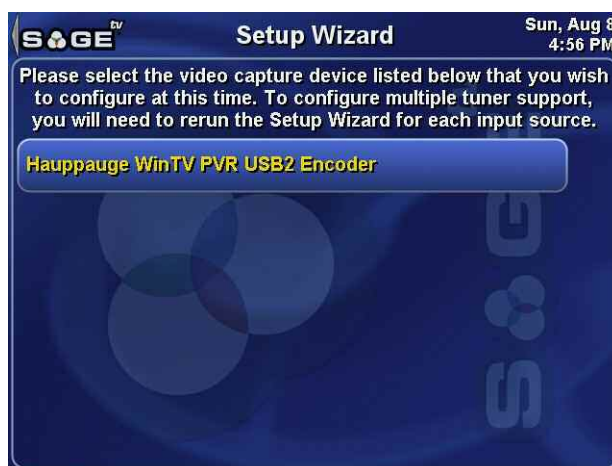
Step 2: Select Device Input

Choose the input type used by the selected device. (What capture device input is connected?)

♻ **Composite** – Continue to step 3A.

♻ **S-Video** – Continue to step 3A.

♻ **TV Tuner** – Continue to step 3B.
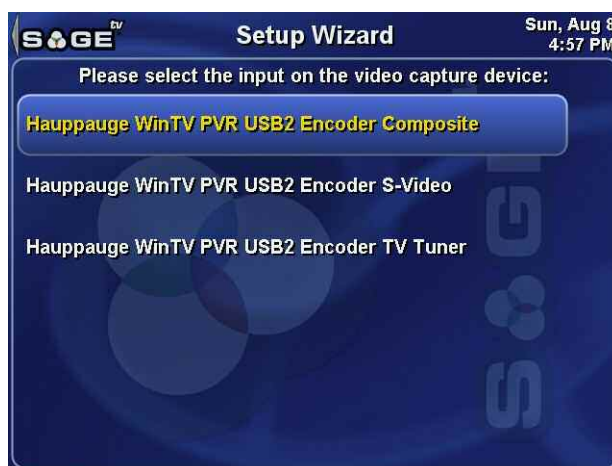
Step 3A: Select the Composite or S-Video Tuning Option

Choose the tuning option for composite or s-video input types:

☯ **Use External Receiver** – Continue to step 5.

☯ **Don't Configure Tuning** – Continue to step 7.
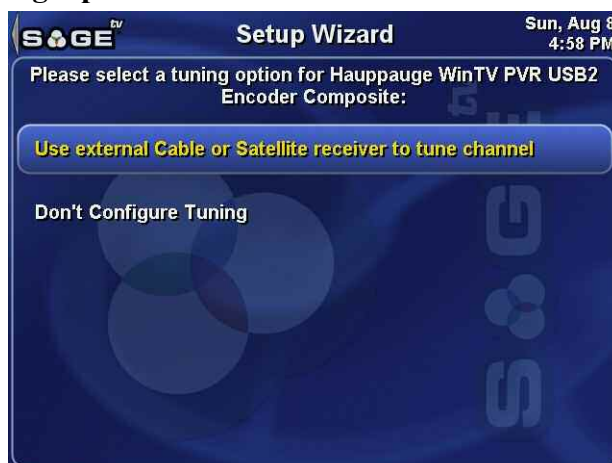
Step 3B: Select the TV Tuner Tuning Option

Choose the tuning option for a TV Tuner input type:

☯ **Use Tuner for Cable TV** – Continue to step 7.

☯ **Use Tuner with Antenna** – Continue to step 7.

☯ **Use External Receiver** – Continue to step 4.

☯ **Don't Configure Tuning** – Continue to step 4.
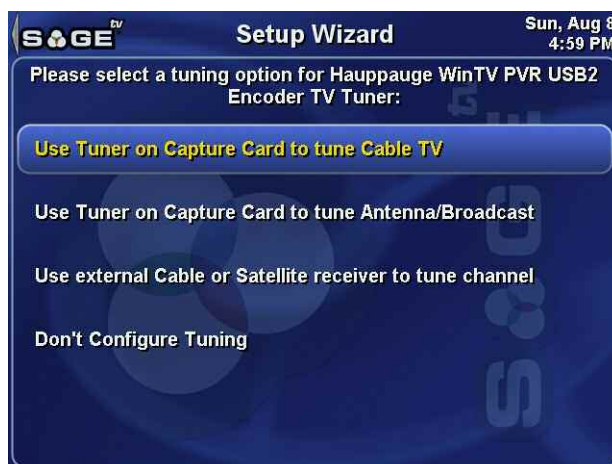
Step 4: Choose the RF Channel

When using a TV Tuner on the capture device to connect to an external receiver, the capture device must know what channel to tune to in order to receive the external receiver's output. Enter the channel number here, then press Return.

☯ If you are using an external receiver, continue to step 5.

☯ If you previously chose not to configure tuning, continue to step 7.

Step 5: Select the Tuning Plugin

When using an external receiver, SageTV needs a way to change the channels on that device. This is accomplished via either a serial connection directly to that device or by using an infrared emitter to send IR signals to it, just like its remote control would do.

Choose the tuning plugin:

- ♻ **DirecTV Serial Control** – Choose the COM port it is connected to (see below), then continue to step 7.

- ♻ **USB-UIRT** – Continue to step 6.

- ♻ **ACTiSYS IR200L** – Choose the COM port it is connected to (see below), then continue to step 6.
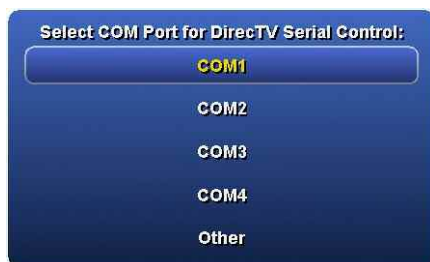
Choose DirecTV COM port	Choose ACTiSYS COM port
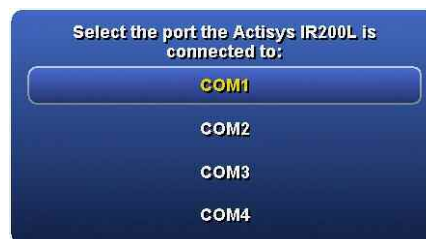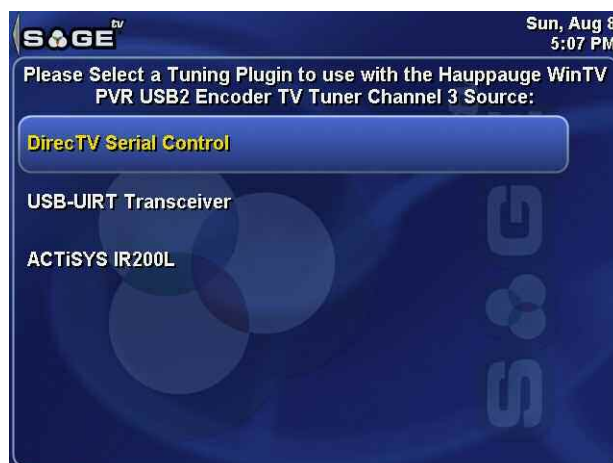
Step 6: Select the Cable Box or Satellite Receiver

If your receiver is listed here, select it and continue to step 7.

If the receiver is not listed here, you will need to teach SageTV the infrared codes so that it can control the device. Choose **Add New Device** and then continue to step 6A.

Step 6A: Name the New Receiver Device

Name the new device that your IR tuning plugin will control. Simply type the name you wish to use and press Return. (A sample name of **CustomSTB** was entered in the example shown.) Continue to step 6B.

> **Note:** Do not use any spaces in the name that is entered here.
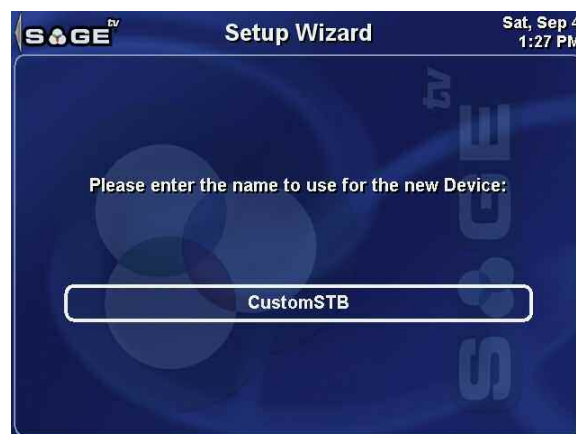
Step 6B: Teach SageTV the IR Codes from the Receiver's Remote Control

In order for SageTV to be able to control a new receiver device, it needs to be taught the codes from the receiver's IR remote control. Follow the instructions shown on the screen to teach SageTV the numbers 0 – 9 from the receiver's remote. When done, continue to step 7.

Note: For best results, make sure the remote is using fresh batteries and hold it just a few inches away from IR transceiver. Push and hold the button down until SageTV acknowledges that the code has been learned.
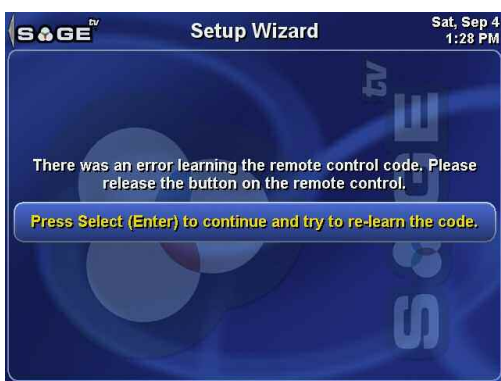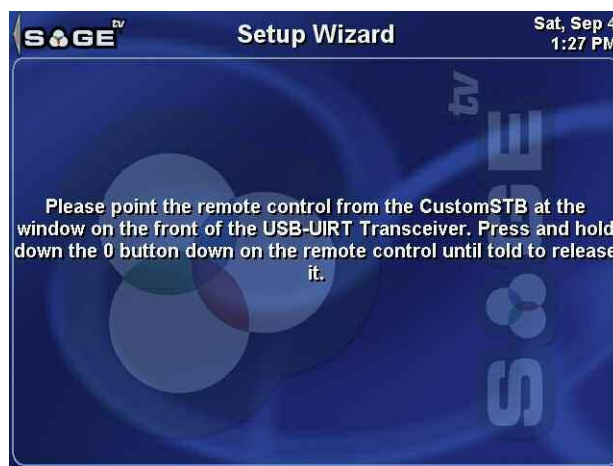
If the IR code is not learned properly, SageTV will ask to try to relearn the code.

SageTV displays a notification once a code has been successfully learned.

Note: Due to some problems with the Actisys IR-200L driver, you may notice a crash in SageTV when setting up a new device. This is outside of our control and we are limited by the third party nature of this driver. Please be patient and try again after restarting SageTV.

Step 7: Choose Whether to use Programming Guide Data

Choose whether to have SageTV automatically download TV programming guide data for this source:

- ♲ **Use Programming Guide Data** – Continue to step 8.

- ♲ **Do Not Use Programming Guide Data** – Continue to Step 10.

Note: For more information regarding using the XMLTV plugin for programming data, see our website at www.sage.tv.configuration.html.
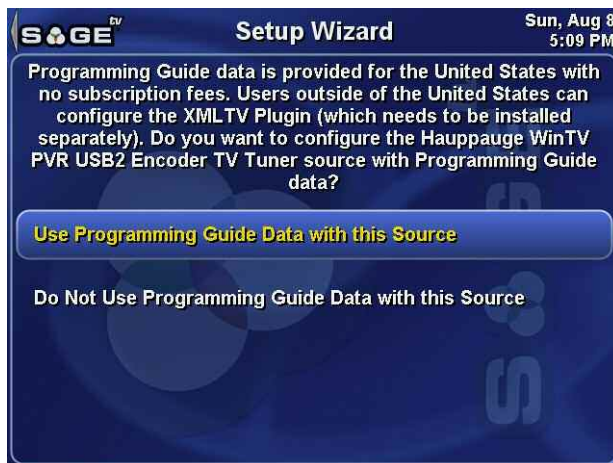
Step 8: Select Provider Type

Choose the provider type for the programming guide data:

- ♲ **Cable or Satellite** – If connecting to a cable or satellite input, continue to step 9A.

- ♲ **Local Broadcast** – If the TV signal is received "Over-The-Air", continue to step 9B.
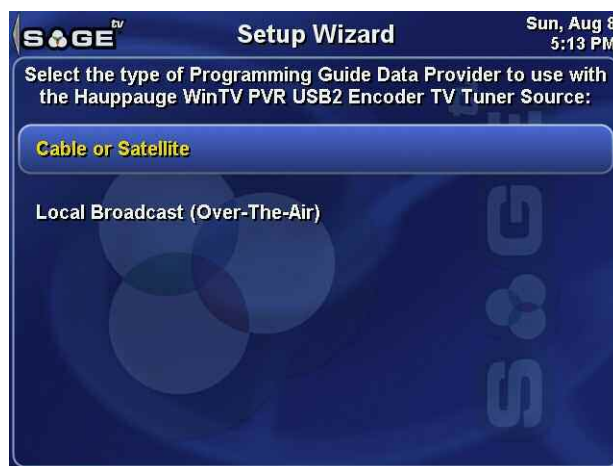
Step 9A: Select Cable or Satellite Provider (Part 1: Zip Code)

Enter your zip code so that SageTV can find providers for your area. If you have previously entered a zip code, you can either select that one or enter a new one.

Step 9A: Select Cable or Satellite Provider (Part 2: Select Provider)

From the zip code previously entered, SageTV downloads a list of cable and satellite providers for your area. Scroll through the list and select your provider. If your provider is not listed, use the Left arrow to return to the previous step and try using a different zip code that is nearby.
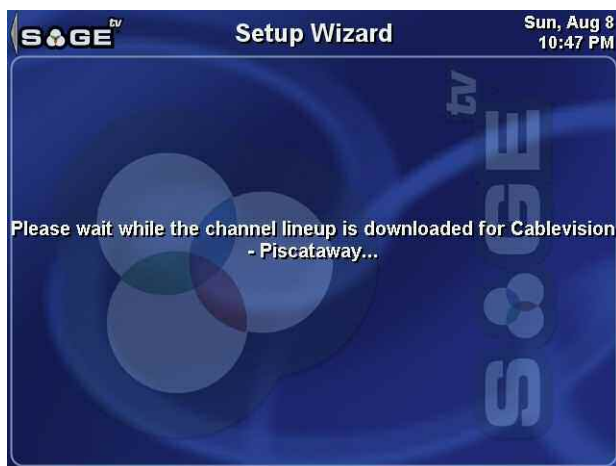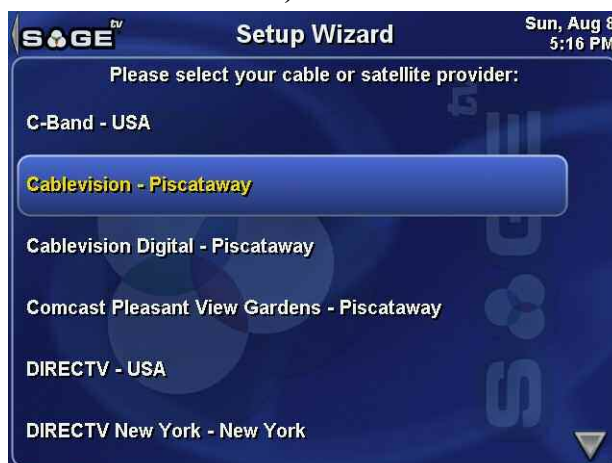
After choosing your provider, there will a delay while SageTV downloads the channel lineup data.

Step 9A: Select Cable or Satellite Provider (Part 3: Select Service Level)

Select the service level, either **Basic Service** or **Extended Basic Service**, that most closely matches the service you subscribe to from your provider. If you don't know what service you subscribe to, select **Extended Basic Service** for a complete channel lineup.

Continue to Step 10.
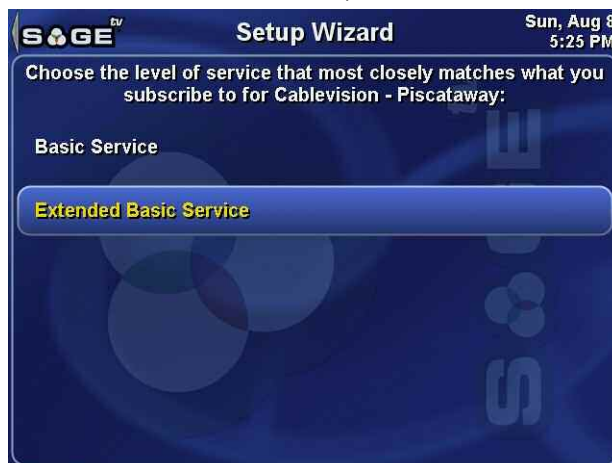
Step 9B: Select Local Broadcast Market

If you are receiving your TV signal "Over-The-Air", select your local broadcast market. Scroll through the list of areas and select the one that best describes the area from which you receive your broadcast stations.

Continue to Step 10.

Step 10: Choose the Channels to Receive
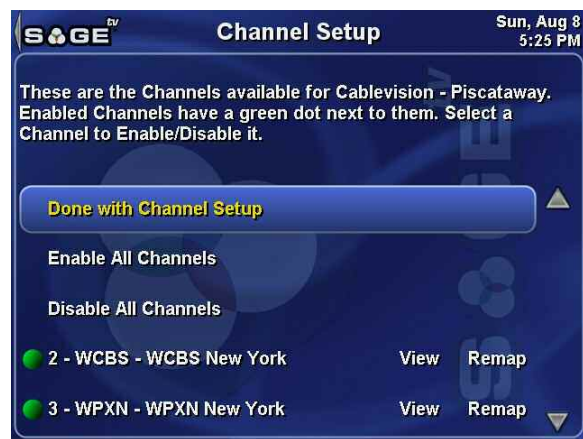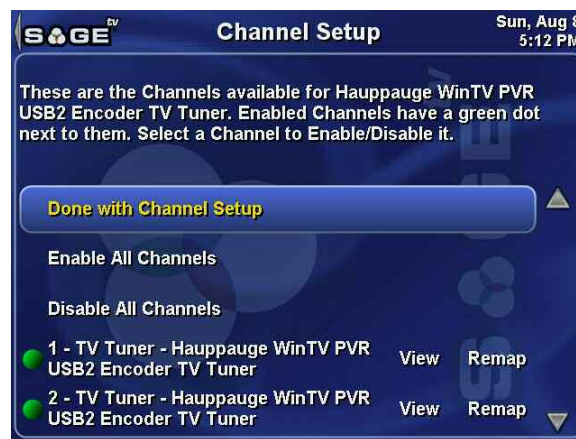
With Programming Guide Data	Without Programming Guide Data

From the list of channels provided, choose the ones that you are able to receive. You may also disable the ones you do no wish to receive. For complete details, see Channel Setup. When you are done, select **Done with Channel Setup**.

You have now completed the Setup Wizard for this source and will be returned to the Setup Wizard Summary, where you can either add another source or complete the setup process and continue using SageTV.

Source Details

Use the Left arrow or click on ◁ to go to the Setup Wizard Summary.

The top few items are status details for this source.

The bottom five items are configurable settings for this source.
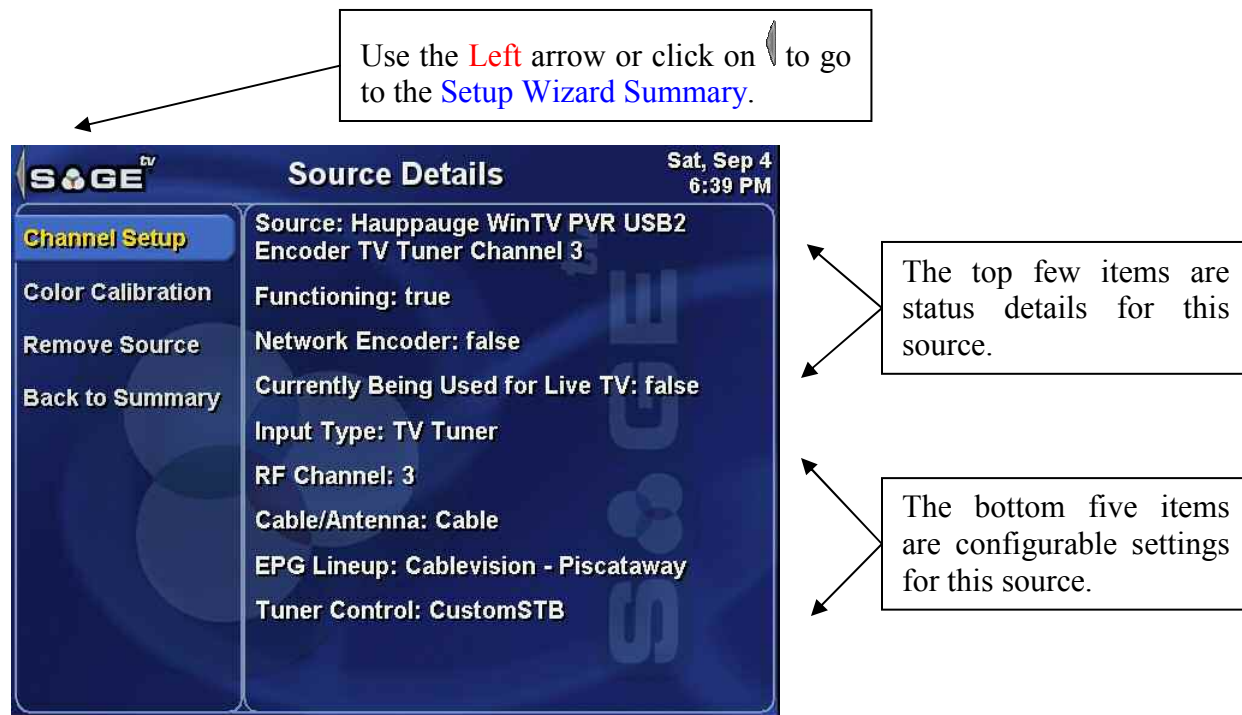
From the **Source Details** menu, it is possible to view the status of a source, calibrate it, and change its configuration. The available options are:

Channel Setup – Go to Channel Setup to view and change the list of enabled channels for the lineup associated with this source. Changing the channels in the lineup will affect all sources that use the same lineup.

Color Calibration – This option is available only for local sources; it is not available for Network Encoders.

SageTV will begin playback of the last tuned channel with the color calibration options displayed over the image. The brightness, contrast, saturation, hue, and sharpness settings can all be configured, with any changes appearing on screen within a few seconds after a setting is changed. Due to this slight delay between making a change and seeing its results, please wait a short time between adjustments. The on-screen choices are:

♻ **Minus/Plus signs** – Decreases/Increases the value for the adjacent setting.

♻ **Revert** – Restore a setting to its value when the current calibration session was initiated.

♻ **Default** – Restore a setting to its default value, regardless of what it was when the current calibration session was initiated.

♻ **Done** – Finish calibration and return to the **Source Details** menu.

Remove Source – If you no longer wish to use a recording source, use this option to delete it. SageTV will ask for confirmation before deleting the source.
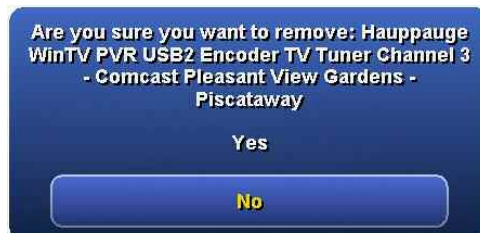
Back to Summary – Return to the Setup Wizard Summary.

In addition to those menu items, the following configuration options may be available, depending on the configuration of the source. (Use the Right arrow to navigate to these items from the menu list and Select one, or just left-click any of them.)

Input Type – A pop-up menu will appear with a list of available choices for this source's input type. The list of available inputs can change, depending on the exact capabilities of the device used as the source. If a source has been configured to be able to connect to an external receiver via a specific channel on the tuner, that option is added to the list, as shown. To exit this pop-up menu without making any changes, use the Options command (default: Ctrl+O; Escape; or right-click with the mouse).
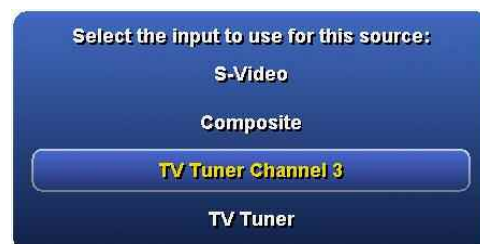
RF Channel – If the **Input Type** is set to use the tuner on a specific channel to receive its input from an external receiver, you will be able to change that channel here. Type in the channel number that the external receiver is set to use for its output and press Return.

Cable/Antenna – Toggles whether the source is configured to use a cable input or an antenna input.

EPG Lineup – Jumps to the Setup Wizard: Step 7, where you can change the lineup that this source is configured to use. **Note:** When the new lineup configuration is done, you will be returned to the Setup Wizard Summary.

Tuner Control – This option is available when the source has been configured to use an IR tuning plugin to control an external receiver in Setup Wizard: Step 5. A pop-up menu will appear with these options:

♻ **Test Infrared Code** – Displays a pop-up menu with a scrollable list of all the infrared codes that may be used. select any code to test it to see if it is correctly received by the external receiver. When done, choose the **Close** list entry, or use the Options command.

♻ **Reprogram Infrared Code** – Displays a pop-up menu that is similar to the one for testing the codes. Select any code you wish to reprogram. You will see an on-screen prompt for reprogramming that code. When done with all codes needing to be reprogrammed, choose the **Close** list entry, or use the Options command.

SageTV will display a prompt to reprogram the IR code.

Note: For best results, make sure the remote is using fresh batteries and hold it just a few inches away from IR transceiver. Push and hold the button down until SageTV acknowledges that the code has been learned.
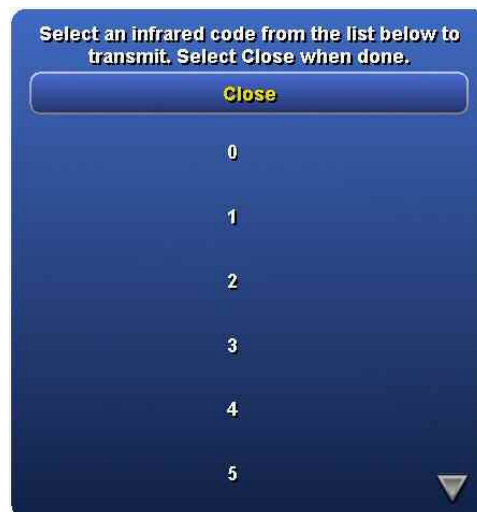
When SageTV has successfully relearned the IR code, it will display a notification.

If there was a problem relearning the code, SageTV will display a notification. You can select the code form the list to try again.

♻ **Learn New Command** – Additional infrared commands can be learned by using this option. In the pop-up dialog, type the name of the new IR command and press Return. You will then proceed through the process of teaching the code to SageTV, as shown above.
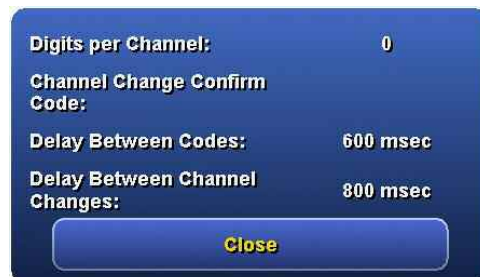
♻ **Remote Control Options** – Another pop-up menu will appear with options for configuring how SageTV will use the IR transmitter to control the external receiver. See below for details.

☮ **Close** – Closes the pop-up menu. The Options command may also be used to close this menu.

Remote Control Options

By choosing the **Remote Control Options** menu item from the **Tuner Control** pop-up menu, you may configure additional options for how SageTV uses the IR transmitting device to control an external receiver.

☮ **Digits per Channel** – Specifies the number of digits that SageTV will transmit to change to a new channel. Type in the number and press Return in the pop-up dialog. Example: If you enter 3 for the number of digits, then when changing to channel 7, SageTV will send "007". Use 0 to transmit the actual number of digits in the channel number. Example: When changing to channel 7, SageTV will send "7".

☮ **Channel Change Confirm Code** – Tells SageTV to always transmit the specified code after transmitting the digits for a channel change. A pop-up menu with all the IR codes will be displayed. Choose one to use as the confirm code, or choose **None** to close the pop-up without selecting a code. The Options command will also close the pop-up without making a selection. See the previous page for a sample image of what the pop-up list of codes looks like.

☮ **Delay Between Codes** – Tells SageTV how much time to delay between IR code transmissions. Type the number of milliseconds to delay between transmissions and press Return. (There are 1000 milliseconds in 1 second.) Use the Options command to close the dialog without changing the current setting.

☮ **Delay Between Channel Changes** – Tells SageTV how much time to delay between each channel change. Type the number of milliseconds to delay between channel changes and press Return. (There are 1000 milliseconds in 1 second.) Use the Options command to close the dialog without changing the current setting.

☮ **Close** – Closes the pop-up menu. The Options command may also be used to close this menu.

Channel Setup

Use the Left arrow or click on ⬆ to go to the Setup Menu.

A scrollable list of available channels is presented, along with entries to enable or disable all channels and to finish setup.

A green dot next to a channel indicates that channel is enabled.

Use **View** to see a preview of a channel.

Use **Remap** to remap a channel to its actual location, in case the lineup is incorrect.

Channel Setup provides a scrollable list of available channels where you can enable or disable any channel, depending on whether you can actually receive, or want to receive, that channel. If a channel has a green dot next to it, it is enabled, listed in the LiveTV Guide, and may be used by SageTV to record TV shows. Channels without green dots are not enabled and are not used by SageTV.

The list of which channels are enabled or disabled is linked to a specific provider, not a capture device source, so if multiple sources use the same lineup, changing which channels are enabled in a particular lineup will affect all sources using that lineup.

Any changes made to the channel lineup will force SageTV to go online to refresh the programming data. Thus, if you wish to have SageTV update the channel listings in the LiveTV Guide, simply toggle any channel twice so that its enabled/disabled status is set back to its original value and then select **Done with Channel Setup**.

Enabling and Disabling Channels

To toggle a channel's enabled/disabled state, highlight the desired channel and Select it by pressing Return or left-clicking it with the mouse.

The **Enable All Channels** entry is used to enable every channel in the list, while the **Disable All Channels** entry is used to disable every channel. Due to the global nature of these options, you will be asked to confirm these selections:
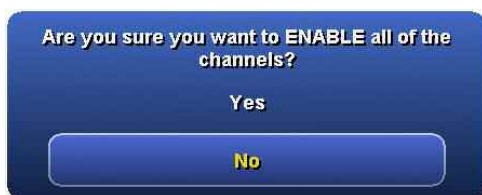
Video Preview

If the Video Menu Options are set to enable video display on menus (**Display Video on Menus** is not set to **Never**), the **View** option may be used to see a preview of the channel it is next to.

Remapping Channels

The **Remap** option can be used to remap a channel to fix any possible lineup errors. Select this option to reset a channel if you later decide that the remapping information is incorrect.

- ♻ **Map to Different Channel Number** – Choose this button to remap a channel. Type the number of the channel you wish to remap the current channel to and then press Return.

- ♻ **Reset to Default Channel Number** – Only available after a channel has already been remapped; choose this button to restore the channel back to its original value.

- ♻ **Cancel** – Closes the pop-up menu without making any changes.

Completing Channel Setup

When **Channel Setup** is complete, highlight the **Done with Channel Setup** entry in the list and Select it. You will be returned to the Setup Menu, unless you are in the middle of the Setup Wizard, in which case you will be returned to the Setup Wizard Summary, instead.

Parental Controls

Use the Left arrow or click on ◁ to go to the Setup Menu.

SageTV's initial **Parental Controls** menu displays the controls as disabled. Two other views of this menu are possible. See the images directly below.

After entering a Lock Code, the controls are enabled.
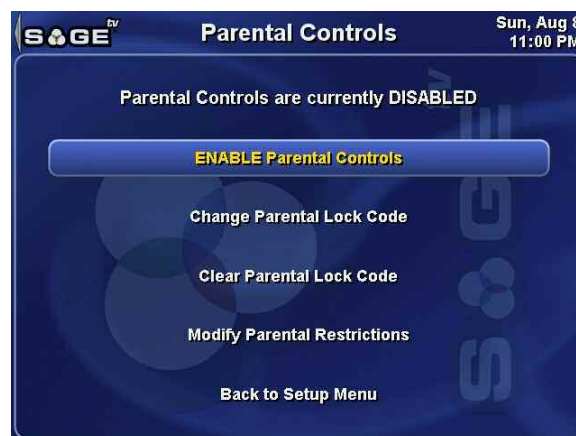
The controls can be disabled while retaining the lock code for future use.

The **Parental Controls** options can be used to prevent others from watching selected types of shows unless they know the lock code. The choices on this menu are:

ENABLE Parental Controls – Available when parental controls are disabled, this option enables the controls. If a lock code has not been previously entered, SageTV will ask for a new lock code and for confirmation of that code. When presented with the pop-up dialog, type in the desired lock code and press Return. SageTV will not

show what you type, but will display asterisks for each character typed. Enter the code a second time to confirm it. If the second entry does not match the first, SageTV will not accept the new lock code.

DISABLE Parental Controls – Available when parental controls are enabled, this option disables the controls. Any restrictions that were previously set will be retained, but no lock code will need to be entered to watch shows that are restricted.

Change Parental Lock Code – Use this option to change the lock code. Changing the lock code also causes the parental controls to be enabled. As with **ENABLE Parental Controls**, above, you will be asked to enter the new lock code twice to confirm it. If the second entry does not match the first, SageTV will not accept the new lock code.

Clear Parental Lock Code – Available when a lock code has already been entered and parental controls are disabled, use this option to clear the current lock code. If you later decide to enable the parental controls again, you will need to enter a new lock code.
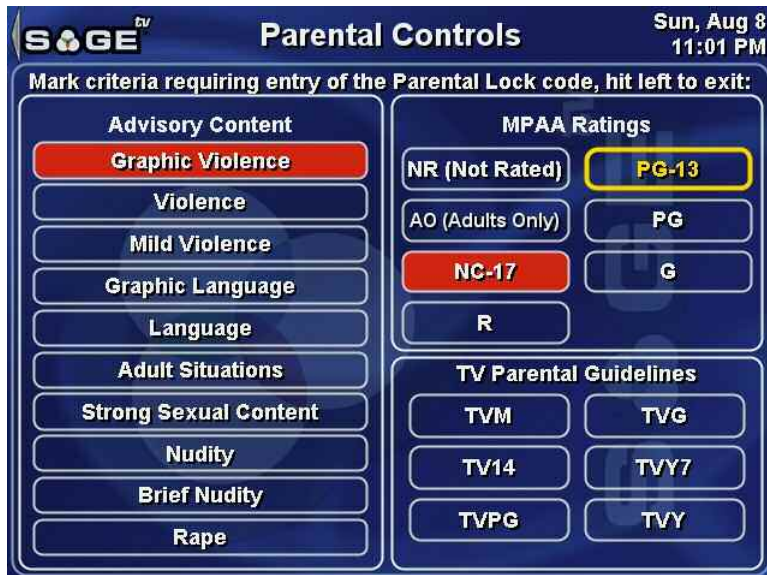
Modify Parental Restrictions – Go to the Parental Controls: Restrictions menu, where you can specify which types of shows require the entry of the lock code before they can be watched. The restrictions can be configured regardless of whether the parental controls are enabled or not, but will only be used when the controls are enabled.

Back to Setup Menu – Return to the Setup Menu.

Parental Controls: Restrictions

Use the Left arrow or click on ◖ to go to the Parental Controls Menu.

Use the arrow keys to highlight any criteria (yellow outline) and use Select to turn that criteria on (red markers). Or, simply left-click on the desired criteria.

This screen displays in red all the restrictions that have been set.

If Parental Controls have been enabled, attempting to watch a recording that meets any of the chosen criteria will require the entry of the lock code before SageTV will play the recording. If the correct lock code is entered, then SageTV will begin playback of the recording.

If the wrong lock code is entered, SageTV will display a notification that the lock code was incorrect and will also display a playback error due to the parental code check having failed.
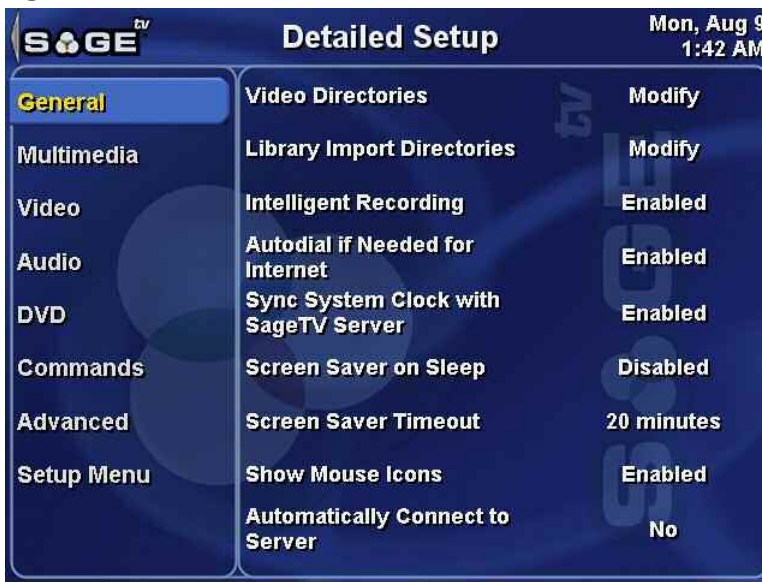
Detailed Setup: General Settings

Use the Left arrow or click on ◀ to go to the Setup Menu.

Highlight any setup subject in the left-hand column to view its options, or choose **Setup Menu** to return to the Setup Menu.

Select a setting next to a setup option to change that option.

From the **General Settings** configuration menu, you can reach the other setup options by highlighting Multimedia, Video, Audio, DVD, Commands, or Advanced in the right-hand column. The **General Settings** are:

Video Directories

The Video Directories are where SageTV stores the recordings that it creates. SageTV supports the use of multiple folders on multiple drives as well as using mapped drives or UNC paths across a network, and will automatically handle determining which Video Directory to use when making a recording; see: Where to Store the Next Recording. Choose modify to see a list of existing Video Directories and to be able to add or remove directories.

By default, SageTV stores recordings in the "Video" subdirectory where SageTV was installed. Choose **Add New Directory** to add a directory to the list, or choose one of the existing video directories to modify its settings.
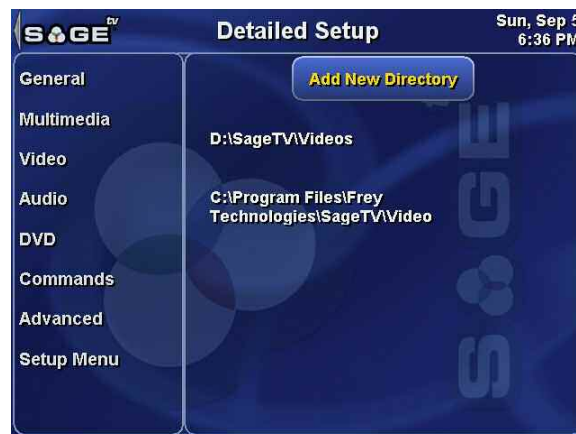
After choosing to add a new directory or edit an existing one, the video directory detail information will be displayed. You may choose to:

⊕ **Change Directory Path** – Either **Browse** for the location or **Specify** the path to be used by typing it in. It is recommended that you not specify more than one directory for each drive or partition being used to store SageTV recordings.
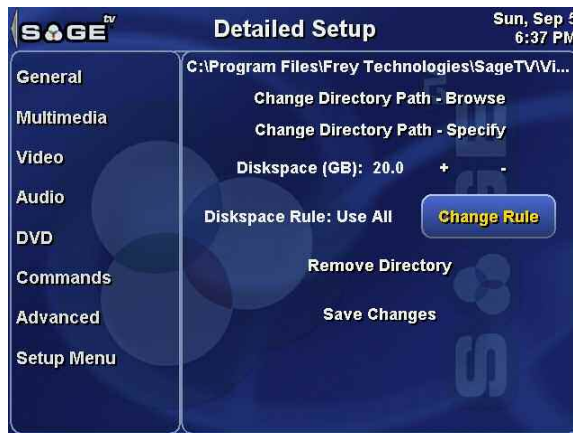
⊕ **Diskspace** – Use the **Plus** and **Minus** signs to set the displace usage for this video directory. See the **Diskspace Rule** (next) to determine how this value will be used.

⊕ **Diskspace Rule** – The current setting is displayed next to this option. Choose **Change Rule** to change how the **Diskspace** setting (above) will be used:

  o **Use Only** – SageTV will use only the amount of space specified for this directory.
  o **Leave Free** – SageTV will leave the specified amount of disk space free.
  o **Use All** – All available disk space will be used; the **Diskspace** setting is ignored for this directory.

> Note: When using the Use Only or the Leave Free settings, be sure the specified amount of disk space actually exists. For example: don't tell SageTV to use 20GB of space or to leave 20GB free, if the drive only has 15GB available for SageTV to use when you create the new video directory.

⊕ **Remove Directory** – Available only if editing an existing directory. SageTV will ask for confirmation before removing the directory from SageTV's list of Video Directories. New recordings will no longer be created stored in that directory. **Note:** The existing recordings that are already in that directory will remain and those recordings will still be listed in the SageTV Recordings menu. SageTV will not delete the directory or any files on your hard drive.

⊕ **Save Changes** – Available only if editing an existing directory. Tells SageTV to save the changes and return to the video directory detail display. **Note:** If you go to another menu without using **Save Changes**, any changes you may have made will not be saved.

⊘ **Add Directory** – Available only if adding a new video directory. Tells SageTV to save the details about the new directory and return to the video directory detail display. **Note:** If you go to another menu without using **Add Directory**, SageTV will not use the new directory.

⊘ **Cancel** – Available only if adding a new video directory. Cancels the addition of the new directory and returns to the video directory detail display.

Library Import Directories

The Library Import Directories are used to tell SageTV where to find already-existing media files on your computer, such as videos, music files, and pictures. SageTV supports the use of multiple folders on multiple drives as well as using mapped drives or UNC paths across a network. Choose modify to see a list of existing Library Import Directories and to be able to add or remove directories. Initially, SageTV has no Library Import Directories added to its list.
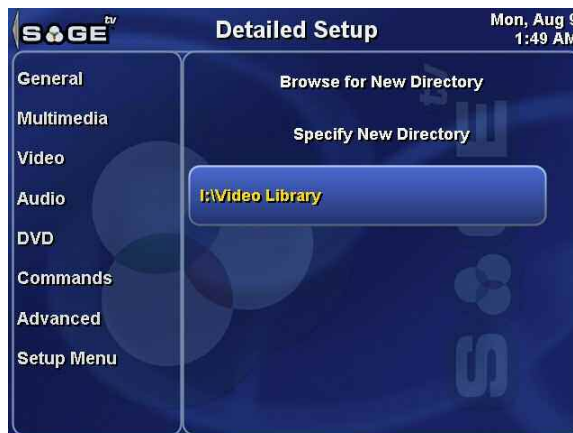
There are no configuration options for Library Import Directories. SageTV simply lists all of the existing directories, and has options to **Browse** for or **Specify** new directory paths.

Select an existing directory to remove it. SageTV will then ask to confirm that the chosen Library Import Directory should be removed. **Note:** SageTV will only remove the directory from its internal list of directories where it should search for library media; it will not delete the actual directory or any of the files on your hard drive.

SageTV will recognize and import the following types of media:

⊘ Video Files: AVI, MPEG, and DVDs stored on a hard drive (see: Appendix I: Playing DVDs from the Hard Drive).

⊘ Music Files: MP3 and WAV.

⊘ Picture Files: JPG, GIF, and PNG.

Intelligent Recording

Enable this option to begin using SageTV's Intelligent Recording feature. See SageTV Quick Start: Intelligent Recordings for details of how this works.

Note: If you decide to disable the Intelligent Recording feature after it has been enabled and used for a while, be aware that by default, SageTV will delete all non-Favorites and non-Manual Recordings when Intelligent Recording is turned off. (See the appendix regarding modifying this behavior.) This means that by disabling the Intelligent Recording feature, all existing Intelligent Recordings will be deleted. Because of this, SageTV will ask for confirmation before allowing this feature to be disabled.

Autodial if Needed for Internet

Enable this option if SageTV should try to establish a dial-up connection when an Internet connection is needed to update the programming guide information. If you are using an always-on type of connection, or if you wish to control all access to the internet, leave this option disabled.

Sync System Clock with SageTV Server

Enable this feature if you want to synchronize your PC system clock with the SageTV server. This is highly recommended because the SageTV server is synchronized with the US Military Atomic clock for accuracy. If you have already configured such an atomic clock synchronization utility on your computer, enabling this option isn't needed.

Note: While this will ensure that your PC system clock is set to the correct time, TV stations' clocks may still be set differently. To make sure your Favorites and Manual Recordings record an entire show, you may wish to consider using padding on some of your recordings, particularly those aired on stations that regularly begin shows early or end them late. See Record Options for Manual Recordings and Start Padding and Stop Padding for Favorites.

Screen Saver on Sleep

When enabled, this option will use SageTV's built-in Screen Saver when you put SageTV to Sleep while it is running in Full Screen Mode. If this option is disabled or if SageTV is running in a window instead of full screen, SageTV will minimize to an icon in the system tray when it is put to sleep. SageTV will continue recording your programs while in Sleep Mode, but any live TV that is not a scheduled recording will stop. See Sleeping SageTV.

Screen Saver Timeout

Enter the Timeout period that SageTV will wait before starting the screen saver. Type in the number of minutes and press Return. Use the Options command (Ctrl+O, Escape, right-click) to cancel the pop-up without changing the current value.

If the Timeout setting is not 0, the Screen Saver will launch based on the Timeout setting specified. This setting is used mostly in case you walk away from the application and don't want to be concerned with any screen burn. The screen saver will only start if SageTV is at a menu or if video playback is paused; it will not start if a video is actively playing.

Show Mouse Icons

This setting comes enabled by default to show you all the available mouse control icons spread throughout the application. If you are not going to use a mouse to control SageTV you can disable those icons here. Disabling this option will not prevent the use of a mouse with SageTV: a mouse can still be used to select menu items; there will just be no special-purpose mouse icons.

Automatically Connect to Server (Client only)
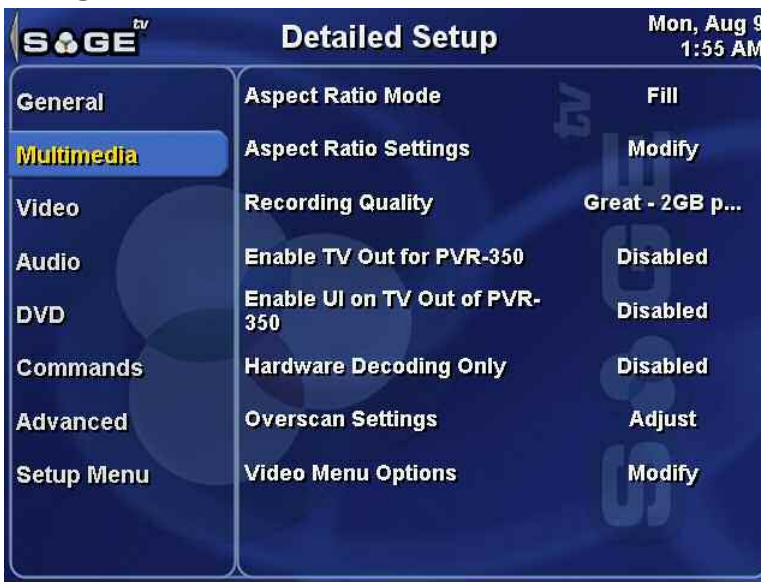
Note: This option is only available when using SageTVClient.

When SageTVClient starts, you will be asked to enter the IP address or computer name of the SageTV server computer system on your network. Instead of entering this information every time SageTVClient is run, enable this option to automatically connect to the server. When enabled, this option will change from displaying **No** to displaying the name or IP address of the server, which you entered when SageTVClient started. See Configure SageTV Client to Connect to the Server.

Detailed Setup: Multimedia Settings

Use the Left arrow or click on ❙ to go to the Setup Menu.

Highlight any setup subject in the left-hand column to view its options, or choose **Setup Menu** to return to the Setup Menu.

		Mon, Aug 9 1:55 AM
S☰GE tv	**Detailed Setup**	
General	Aspect Ratio Mode	Fill
Multimedia	Aspect Ratio Settings	Modify
Video	Recording Quality	Great - 2GB p...
Audio	Enable TV Out for PVR-350	Disabled
DVD	Enable UI on TV Out of PVR-350	Disabled
Commands	Hardware Decoding Only	Disabled
Advanced	Overscan Settings	Adjust
Setup Menu	Video Menu Options	Modify

Select a setting next to a setup option to change that option.

From the **Multimedia Settings** configuration menu, you can reach the other setup options by highlighting General, Video, Audio, DVD, Commands, or Advanced in the right-hand column. The **Multimedia Settings** are:

Aspect Ratio Mode

This option sets the default **Aspect Ratio Mode** that will be used during video playback. Select the setting next to this option to rotate through the available settings:

- ☯ **Fill** – Stretch the video to fill the SageTV playback area. (Initial setting.)

- ☯ **Source** – Use the video source information to determine the payback aspect ratio.

- ☯ **4x3** – Force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so.

- ☯ **16x9** – Force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so.

Aspect Ratio Settings

Select **Modify** to be presented with a pop-up menu containing the available adjustments for the selected **Aspect Ratio Mode**. Each mode stores its own values for the settings presented here.

Select any of the **Stretch** or **Offset** values to change their settings. Enter the new value in the pop-up dialog and press Return. Use the Options command (Ctrl+O, Escape, right-click) to close the dialog without changing the current value.

The **Stretch** values are greater than 100% initially to allow for overscan and hide the black borders that might otherwise be visible around the edges of TV recordings.

If you find that the upper left corner of the image is not in the correct location, use the **Offset** settings to change where that corner is positioned.

Use **Close** or the Options command to exit the pop-up menu.

Recording Quality

The setting shown is the current default **Recording Quality** for all recordings made by SageTV. This is the quality setting used for all new recordings, but may be customized for individual Manual Recordings or for Favorites. See Record Options for Manual Recordings and Recording Quality for Favorites.

Select the current setting for a pop-up menu of recording quality choices. Choose one of the recording qualities listed, or use the Options command to close the pop-up without changing this setting. There is no "correct" choice; the quality setting you choose is a matter of personal preference and amount of hard drive space available. The lower quality settings will use less drive space and allow more shows to be recorded, but at the expense of reduced video quality. On the other hand, higher quality recordings can use disk space very quickly. It is recommended that you try a few settings to see which you are comfortable with. You may want to choose a medium quality setting as your default, then adjust your Favorites or Manual Recordings to higher or lower quality settings, based on their needs. For example: cartoons usually still look OK at lower quality recording rates, while sports may need very high quality settings to retain details during the fast motion scenes.

If you want to customize these settings, go to the Configuration section of our website at www.sage.tv/configuration.html.

Note: Any change to the default Recording Quality will not take effect until a new recording starts.

Enable TV Out for PVR-350

This option is only available when using a Hauppauge PVR-350 encoder/decoder tuner card.

Enable this if you are using the TV Out functionality of the PVR-350 card to view MPEG video.

Enable UI on TV Out of PVR-350

This option is only available when using a Hauppauge PVR-350 encoder/decoder tuner card.

Enable this if you are using the TV Out of the PVR-350 to view the SageTV User Interface on your TV. After enabling this setting for the first time, reboot your computer for the settings to take effect. If, upon starting SageTV, the UI is not appearing on the TV Out, video must be activated for the TV Out to initialize. The best way to do this is to use the TV command (Ctrl-V) to initiate live TV playback.

Hardware Decoding Only:

This option is only available when using a Hauppauge PVR-350 encoder/decoder tuner card.

Enabling this option disables software video rendering to the Windows Desktop. Now video will only be shown through the TV Out of the PVR-350.

Overscan Settings:

Use the **Overscan Settings** to modify the placement of the SageTV User Interface. Through a series of two pop-up dialogs, you will first adjust the location of the upper left corner of the user interface, then you will adjust the location of the lower right corner of the user interface. When you are done, the user interface will completely fill the SageTV display.

In both pop-up dialogs, use the arrow keys to move the corner of the display, or click on the directional icons with the mouse. When done positioning a corner, press Return/Enter, or click on **Done**.
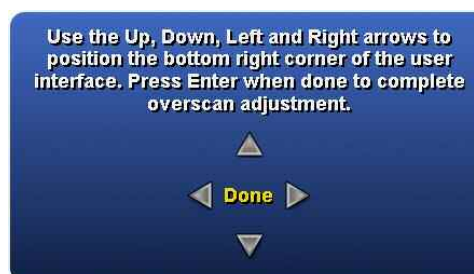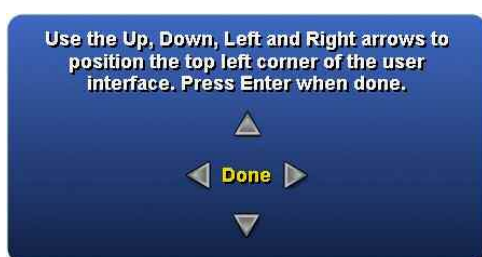
Video Menu Options

The **Video Menu Options** determines whether video playback can be displayed while using a menu and, if so, whether the video will be displayed in a window in the upper right corner or as the background of the menu. Not all menus can have video played in a window and a few may have background playback disabled also.

When you select the **Modify** button next to this option name, a pop-up menu will appear with the settings you can change. This pop-up menu is the same as the one that is displayed on nearly

every menu when you use the Options command; in fact, using the Options command on this menu displays the pop-up menu also. Some menus have options menus specific for their possible settings, but most use the default general purpose **Video Menu Options** menu, or at least make those options available. See: The Default Pop-up Menu: Video Menu Options.

Selecting the button next to **Display Video on Menus** displays a secondary pop-up menu, where three choices are presented:

⚇ **Never** – Video playback will never be displayed on a menu, regardless of whether one is currently playing or not.

⚇ **If Active** – Video playback will be displayed on a menu only if there is currently a video being played. When no video playback is active, no video will be shown on the menu.

⚇ **Always** – Video playback will always be shown on menus. If there is no active video currently, live TV will be shown.

Selecting the button next to **Video Menu Style** also displays a secondary pop-up menu, where two additional choices are presented:

⚇ **Background** – If video playback is shown on menus, it will be shown as the background for the entire menu. The menu will appear on top of the video.

⚇ **Window** – If video playback is shown on menus, it will be displayed as a small window in the upper right-hand corner. Not every menu has the space needed for displaying video in a window; in those cases, the video will not be shown. The Main Menu is one such menu.

Finally, use **Close** to close the pop-up menu when done making selections

Example images showing video playback while using a menu:
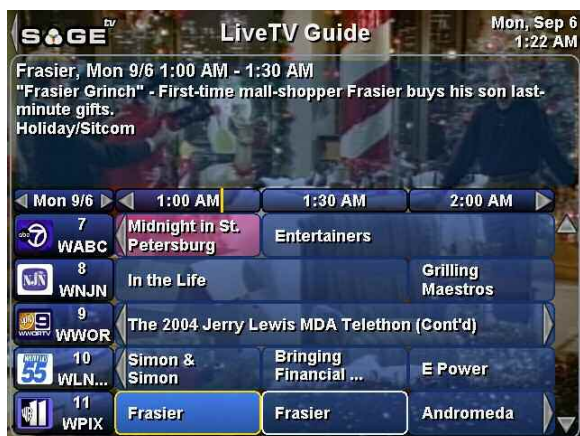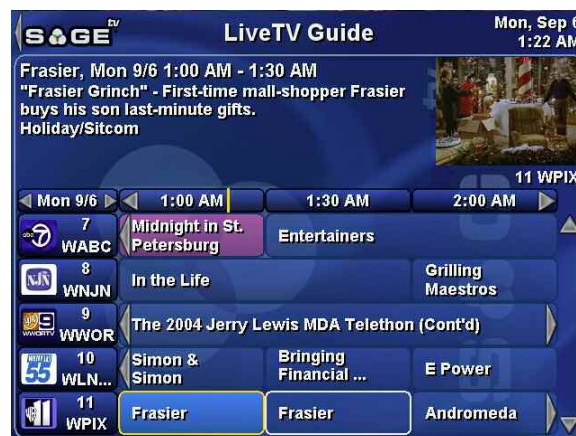
Background mode   Window mode

Note: While video is playing on a menu, the commands that control playback continue to function. Please see Chapter 4: Media Playback for media playback details, or see the List of All SageTV Commands for complete details on all available commands. An additional point to remember is that some commands are combo commands, which function differently depending on whether SageTV is at a menu or on a playback screen. While on a menu, the playback versions of those commands may not function since the menu versions take precedence.

Detailed Setup: Video Settings

Use the Left arrow or click on ▼ to go to the Setup Menu.

Highlight any setup subject in the left-hand column to view its options, or choose **Setup Menu** to return to the Setup Menu.

When playback is currently in progress, choose **Reload Media Player** after making any changes.

Select a setting next to a setup option to change that option.

From the **Video Settings** configuration menu, you can reach the other setup options by highlighting General, Multimedia, Audio, DVD, Commands, or Advanced in the right-hand column. The **Video Settings** are:

Video Renderer

The **Video Renderer** is the filter used to render the video to the screen from the source during playback. Choose the setting displayed next to the option to see a pop-up menu listing the possible settings: **Default**, **Overlay**, and **VMR9**. SageTV is initially set to use **Overlay**. If there are problems with this setting, try the **Default** mode instead.

If you are running a newer graphics card with 3D acceleration, give **VMR9** a try, which will also provide partial transparency to the On-Screen Display over video.

Note: Using **VMR9** requires 3D Acceleration to be **Enabled** in the Detailed Setup: Advanced Settings configuration menu. If it is not enabled, **Overlay** will be used instead.

MPEG2 Video Decoder Filter

A pop-up menu lists all the available video decoders, which are used to decode the MPEG2-formatted video data. The list of decoders depends on the MPEG-2 decoders that are installed on

your PC related to your video card, DVD player and TV tuner/Capture card. Select the video decoder that you would like SageTV to use for MPEG-2 video playback.

Note: If you are using the Sigma Designs Xcard as your video decoder, select it from the list and set the **Video Renderer** to default. Also confirm that the Audio Renderer and MPEG2 Audio Decoder Filter are set to default as well, on the Detailed Setup: Audio Settings configuration menu.

DXVA MPEG Mode

In the pop-up menu, you can modify the MPEG settings as they relate to video acceleration. Choose an MPEG Mode from the list shown. We recommend that you leave this setting at default unless you are experiencing problems with video acceleration.
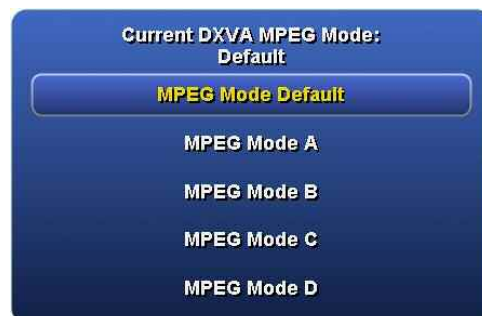
DXVA Deinterlacing

In the pop-up menu, you can modify the MPEG settings as they relate to video acceleration. Choose a Deinterlacing Mode from the list shown. We recommend that you leave this setting at default unless you are experiencing problems with video acceleration.
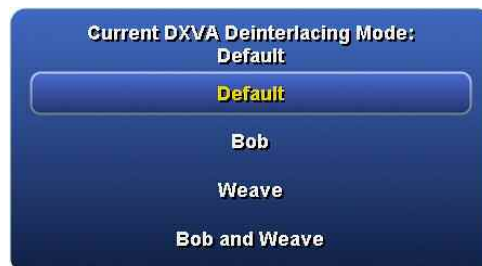
Dscaler Deinterlacer Filter

If you want to use Dscaler to deinterlace the video, enable this option. You can only select this option when selecting the Elecard Video Decoder filter (not included with the SageTV installation, but freely available at www.elecard.com). Then select your Deinterlacing mode and whether or not you want to use Double Refresh Rate or Odd Field First. You may experience audio & video synchronization problems if you have Double Refresh Rate enabled on a PC that doesn't have enough CPU power. More information can be obtained about Dscaler and Deinterlacing at www.dscaler.com.

Reload Media Player

This button will appear only if playback is currently in progress. After making any changes, select this button to reload the media player so that the changes can take effect.

Detailed Setup: Audio Settings

Use the Left arrow or click on ◁ to go to the Setup Menu.

Highlight any setup subject in the left-hand column to view its options, or choose **Setup Menu** to return to the Setup Menu.

When playback is currently in progress, choose **Reload Media Player** from Detailed Setup: Video Settings after making any changes.

Select a setting next to a setup option to change that option.

From the **Audio Settings** configuration menu, you can reach the other setup options by highlighting General, Multimedia, Video, DVD, Commands, or Advanced in the right-hand column. The **Audio Settings** are:

Audio Renderer

The **Audio Renderer** is the filter used to render the audio after it has been decoded. Select a renderer from the pop-up menu showing the list of the available choices, which depends on what has been installed on your computer, related to DirectX and your sound card.

MPEG2 Audio Decoder Filter

A pop-up menu lists all the available audio decoders, which are used to decode the MPEG2-formatted audio data. The list of decoders depends on the MPEG-2 audio decoders that are installed on your PC related to your video card, DVD player and TV tuner/Capture card. Select the audio decoder that you would like SageTV to use for MPEG-2 audio playback.

Note: If you are using the Sigma Designs Xcard as your video decoder, set both the **Audio Renderer** and **Audio Decoder Filter** to default. See MPEG2 Video Decoder Filter on the Detailed Setup: Video Settings configuration menu for Xcard settings there.

Audio Playback Delay

If you are having problems with audio playback not being synchronized with video playback, you can set the **Audio Playback Delay** in order to get them to be synchronized. In the pop-up dialog, enter the number of milliseconds to delay the audio playback and press Return. (There are 1000 milliseconds in 1 second.) Use the Options command (Ctrl+O, Escape, right-click) to close the dialog without changing the current setting.

Enter the Audio Playback Delay in milliseconds:
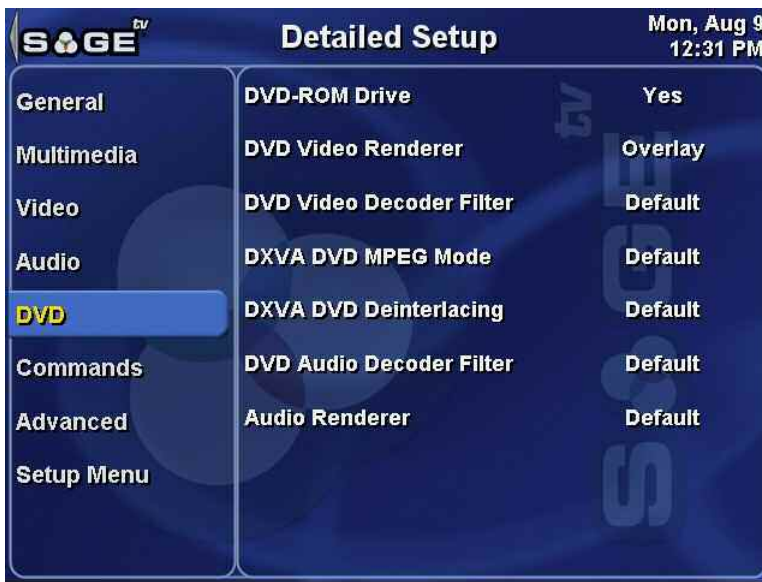
Detailed Setup: DVD Settings

Use the Left arrow or click on ⬍ to go to the Setup Menu.

Highlight any setup subject in the left-hand column to view its options, or choose **Setup Menu** to return to the Setup Menu.

When playback is currently in progress, choose **Reload Media Player** from Detailed Setup: Video Settings after making any changes.

Select a setting next to a setup option to change that option.

From the **DVD Settings** configuration menu, you can reach the other setup options by highlighting General, Multimedia, Video, Audio**,** Commands, or Advanced in the right-hand column. The **DVD Settings** are:

DVD-ROM Drive

Toggle this option between **Yes** and **No**, to tell SageTV whether the computer has a DVD drive installed and you want SageTV to access it for playback of local DVDs.

DVD Video Renderer

The **DVD Video Renderer** is the filter used to render the video to the screen from the source during playback. Choose the setting displayed next to the option to see a pop-up menu listing the possible settings: **Overlay**, and **VMR9**. SageTV is initially set to use **VMR9** for DVD playback. If there are problems with this setting, try the **Overlay** mode instead.

If you are running a newer graphics card with 3D acceleration, **VMR9** will provide partial transparency to the On-Screen Display over video.

Note: Using **VMR9** requires 3D Acceleration to be **Enabled** in the Detailed Setup: Advanced Settings configuration menu. If it is not enabled, **Overlay** will be used instead.

DVD Video Decoder Filter

A pop-up menu lists all the available DVD video decoders, which are used to decode the DVD video data. The list of decoders depends on the MPEG-2 decoders that are installed on your PC related to your video card, DVD player and TV tuner/Capture card. Select the video decoder that you would like SageTV to use for DVD video playback.

Note: The DVD video decoder needs to be able to decrypt the CSS encryption found on most DVDs. If the video decoder does not have this capability, it will not be able to play encrypted DVD video data.

DXVA DVD MPEG Mode

In the pop-up menu, you can modify the MPEG settings as they relate to video acceleration. Choose an MPEG Mode for DVD playback from the list shown. We recommend that you leave this setting at default unless you are experiencing problems with video acceleration.
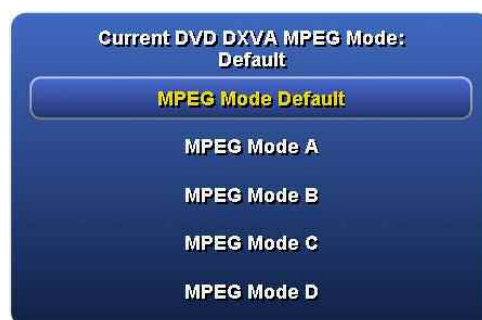
DXVA DVD Deinterlacing

In the pop-up menu, you can modify the MPEG settings as they relate to video acceleration. Choose a Deinterlacing Mode for DVD playback from the list shown. We recommend that you leave this setting at default unless you are experiencing problems with video acceleration.

DVD Audio Decoder Filter
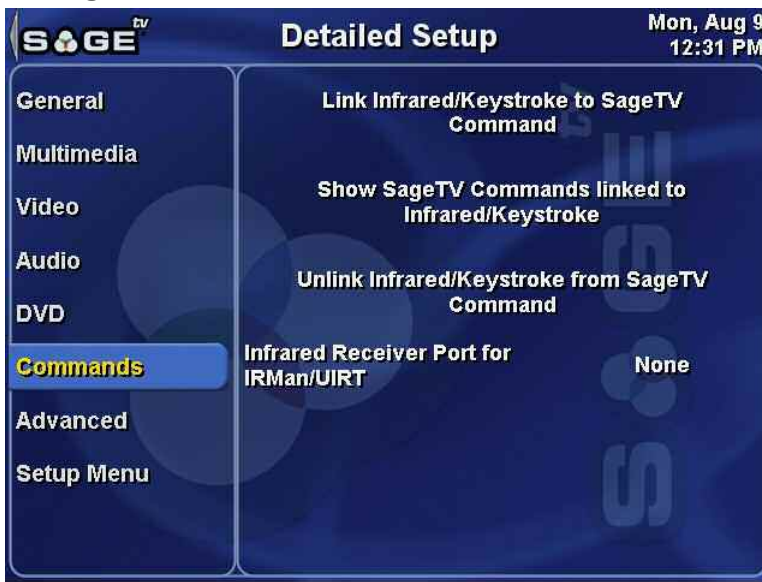
A pop-up menu lists all the available audio decoders, which are used to decode the DVD audio data. The list of decoders depends on the decoders that are installed on your PC related to your video card, DVD player and TV tuner/Capture card. Select the audio decoder that you would like SageTV to use for DVD audio playback.

Audio Renderer

The **Audio Renderer** is the filter used to render the audio after it has been decoded. Select a renderer for DVD playback from the pop-up menu showing the list of the available choices, which depends on what has been installed on your computer, related to DirectX and your sound card.
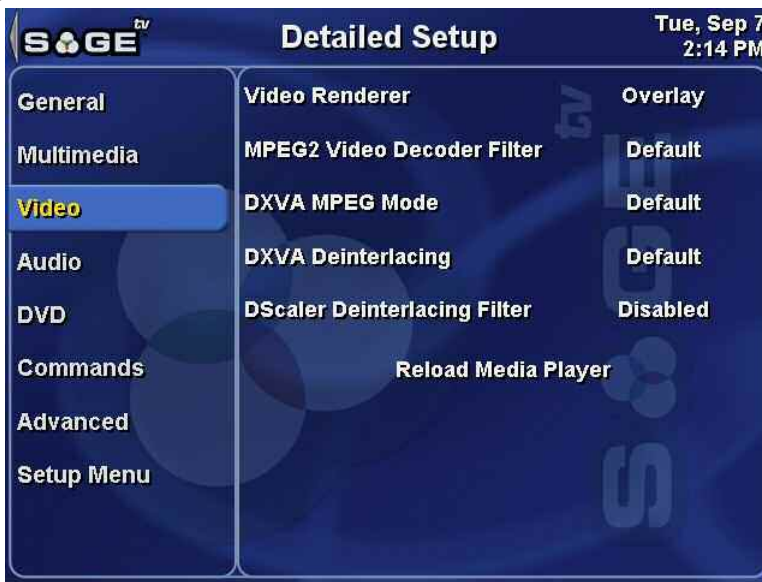
Detailed Setup: Commands Settings

Use the Left arrow or click on ◁ to go to the Setup Menu.

Highlight any setup subject in the left-hand column to view its options, or choose **Setup Menu** to return to the Setup Menu.

Select a an option or a setting next to a setup option to change that option.

From the **Commands Settings** configuration menu, you can reach the other setup options by highlighting General, Multimedia, Video, Audio, DVD, or Advanced in the right-hand column. The **Commands Settings** are:

Link Infrared/Keystroke to SageTV Command

Choosing this option will display a scrollable list of all SageTV commands in the middle of the screen. When a command is highlighted, its keyboard and infrared code assignments are displayed in a list in the right-hand column. In the image shown, the left arrow on the keyboard has been assigned to the Left command .

To link new keystrokes or IR codes to a command, Select that command.
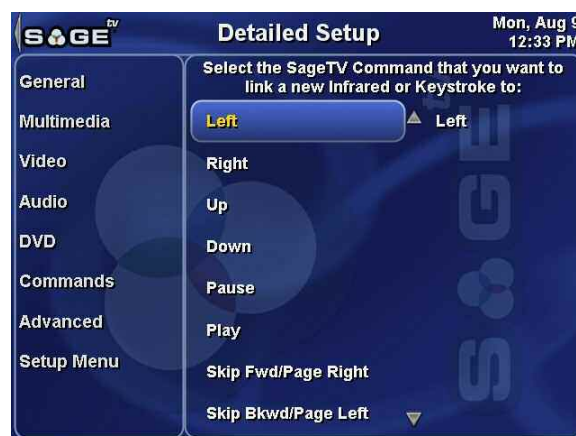
After choosing a command for key/IR code assignment, SageTV will display instructions for you to press the key or remote button to be assigned to the shown command. Any keyboard input at this point is considered to be a key assignment. You can cancel this process by clicking on the **Cancel** button with the mouse.

If a key or IR code already assigned to a different command is entered, SageTV will ask for confirmation regarding whether to reassign the key or IR code. Choose **Yes** to continue with the reassignment; **No** to cancel the reassignment. Using the Options command (Ctrl+O, Escape, right-click) also cancels the reassignment.
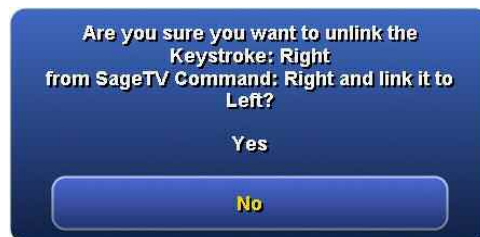
For a complete list of commands, see SageTV Commands.

Notes:

☹ If you are using a third party Infrared Receiver such as the IRMan or USB-UIRT, you will need to link every IR code to the commands in SageTV. To enable the use of either of these IR receivers, see Infrared Receiver Port for IRMan/UIRT, below.

☹ SageTV will only learn IR codes when it is directly using the IR receiver, such as those mentioned above. If you are using the Hauppauge or Streamzap receivers, for example, SageTV cannot learn the IR codes directly from the remotes.

☹ More than one key or IR code can be assigned to each command, but no two commands can share the same key or IR code.

☹ Some remotes use a toggle code where pressing the same key repeatedly results in the remote emitting two separate codes, toggling between then for each button press. For these remotes, you will need to teach both codes for each button to SageTV. Teach the first code to SageTV, then without pressing any other remote button in between, teach the second code to SageTV. In between those 2 button presses, use either the keyboard or mouse to control SageTV.

Show SageTV Commands linked to Infrared/Keystroke

Choosing this option will display instructions for you to press a key or remote button to see which command, if any, it is assigned to. As shown in the image to the right, Ctrl+O was pressed and SageTV says that it is assigned to the **Options** command.
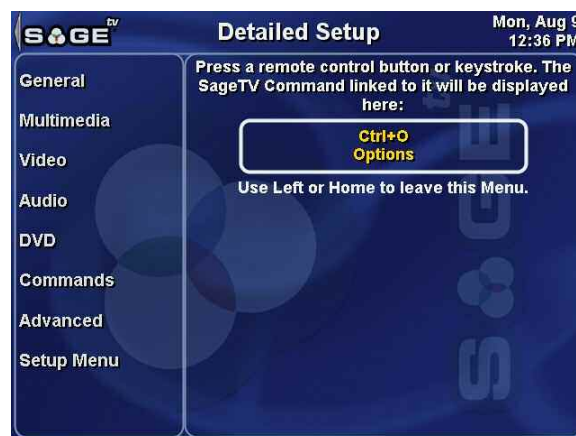
Unlink Infrared/Keystroke from SageTV Command

Choosing this option will display instructions for you to press a key or remote button that you wish to unlink from a command. Once a key or button is pressed, SageTV will ask to confirm the request. If you select **No** or use the Options command, the unlink process will be cancelled. In the example shown, Ctrl+O was unlinked from the Options command. The request was confirmed, resulting in the message that the key has been unlinked from that command.
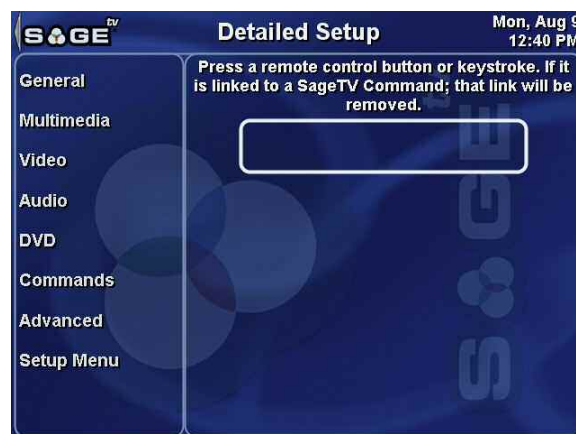
Confirmation Request
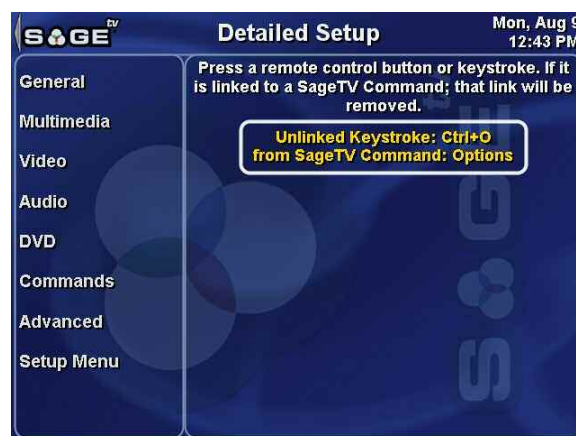
Keystroke was unlinked

Infrared Receiver Port for IRMan/UIRT

If you are using an IRMan or USB-UIRT receiver, it must be enabled in SageTV in order for SageTV to be able to use it directly. Select the button next to this option for a pop-up menu containing a list of ports that the IR receiver may be connected to, or choose **None** to disable the IR receiver. Use the Options command to exit the pop-up menu without changing the current setting.
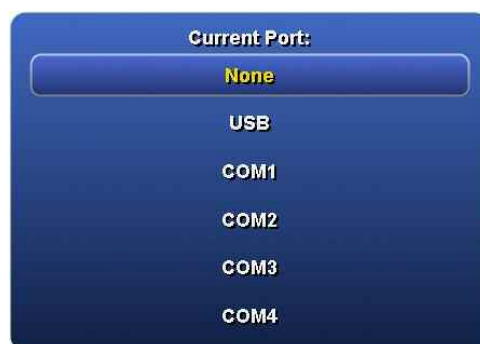
Detailed Setup: Advanced Settings

Use the Left arrow or click on ◁ to go to the Setup Menu.

Highlight any setup subject in the left-hand column to view its options, or choose **Setup Menu** to return to the Setup Menu.

Select a setting next to a setup option to change that option.

From the **Advanced Settings** configuration menu, you can reach the other setup options by highlighting General, Multimedia, Video, Audio, DVD, or Commands in the right-hand column. The **Advanced Settings** are:

SageTV Server

This option is only available in SageTV, not SageTVClient, and toggles between **Enabled** and **Disabled**. If you plan to use SageTVClient on another computer on your network, you must enable SageTV to act as a server.

Load at Windows Startup

Select this option to rotate through the available settings:

- ♻ **No** – Do not start SageTV automatically when the computer starts.

- ♻ **System Tray** – Start SageTV automatically when the computer starts, but start it in **Sleep** mode, minimized to the system tray.

- ♻ **Full Screen** – Start SageTV automatically when the computer starts, and start it running in full screen mode.

Major-Minor Channels for DTV Tuning

This option toggles between **Enabled** and **Disabled**. If you are using a Digital TV receiver that utilizes Major-Minor Channels, check this box. Once enabled you will be prompted to teach SageTV the code for (-) used by the remote control.

Pentium 4/Celeron Fix

This option toggles between **Enabled** and **Disabled**. Only used with Provideo series cards: Implements a fix for bugs caused by the Provideo cards in conjunction with the Pentium 4 or Celeron processor. Any change to this setting requires an application restart to take effect.

Video Orbiting Duration

Use this setting if you have a Widescreen TV or HDTV and wish to shift the 4:3 image horizontally in the 16:9 screen area. The time controls how quickly the screen moves away from and back to its starting position. A value of 0 disables this feature. The image shifts quickly with low values and slowly with large values.

In the pop-up dialog, enter the number of minutes for the orbiting duration and press Return. Use the Options command (Ctrl+O, Escape, right-click) to close the dialog without changing the current setting.

Video Background Color

This option is only available if the ui/show_video_background_item property is set to true; see Appendix A: SageTV Properties Settings.

The **Video Background Color** is the color SageTV displays on the Video Playback screen in areas not covered by the video being played. For example: a 4x3 image won't cover the entire screen for a 16x9 display, and vice-versa. Choosing to **Modify** this setting opens an external dialog box where you can select a new color to display in the areas outside the video.

3D Acceleration

This option toggles between **Enabled** and **Disabled**. Enable 3D Acceleration for better performance if you are using a Graphics card that support DirectX9 and 3D Acceleration. 3D Acceleration cannot be enabled if you are using the OSD through the TV-out of the PVR-350.

Note: This option must be enabled in order to use VMR9 as the Video Renderer in Detailed Setup: Video Settings or as the DVD Video Renderer in Detailed Setup: DVD Settings.

Overlay Color Keying

This option toggles between **Enabled** and **Disabled**. When using Overlay as the Video Renderer in Detailed Setup: Video Settings or as the DVD Video Renderer in Detailed Setup: DVD Settings, enable Color Keying if you want the On-Screen Display to have transparency.

Note: While VMR9 is capable of using partial transparency when it displays the user interface on top of video playback, transparency when using Overlay is all or nothing, meaning: the background of the user interface will be completely transparent, while text will be completely opaque.

SageTV Application Definition (.STV file)

SageTV is capable of using custom files that define what the user interface looks like and what capabilities it contains. The appearance and functionality is defined in SageTV application definition files, which have a file extension of **STV**.

Choose this option to open a dialog where you can choose a new STV file to use as the SageTV interface.

To find custom STV files, please see:

The **SageTV Customizations** forum (forums.sage.tv/forums/forumdisplay.php?s=&forumid=27) is one of the forums on the SageTV site, where some users who have created custom STVs have posted information about those STV files and may answer questions about them.

The **SageTV Community Development Website** (www.sage-community.org) is a SageTV user-created site that contains information about using and customizing SageTV. The site's creator has encouraged others users to join in providing information that SageTV users may find useful.

System Information

Use the Left arrow or click on ◀ to go to the Setup Menu. Or, use the **Back to Setup Menu** button.

The entire bottom portion of the display is used to show various system information statistics. Scroll down to see the remained of the information.

System Information

Tue, Sep 7
12:05 AM

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Back to Setup Menu   tv listings by ZAP 2 it

Software Version: SageTV V2.0.20
Available Video Diskspace: 0.69 GB
Used Video Diskspace: 24.31 GB
Total Video Content: 10 hours 40 minutes
Used Library Diskspace: 21.49 GB
Total Library Content: 6 days 10 hours 19 minutes
Last EPG Update: Monday, September 6, 2004 1:25 AM
Next EPG Update In: 1 hour 20 minutes
Recording: Nothing on Hauppauge WinTV PVR USB2 Encoder
Default Quality: Great - 2GB per hr
Watching: Nothing

Use the Down arrow to highlight and scroll the information display to see the rest of the information.

System Information

Tue, Sep 7
12:05 AM

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Back to Setup Menu   tv listings by ZAP 2 it

Total Video Content: 10 hours 40 minutes
Used Library Diskspace: 21.49 GB
Total Library Content: 6 days 10 hours 19 minutes
Last EPG Update: Monday, September 6, 2004 1:25 AM
Next EPG Update In: 1 hour 19 minutes
Recording: Nothing on Hauppauge WinTV PVR USB2 Encoder
Default Quality: Great - 2GB per hr
Watching: Nothing
Instance Uptime: 28 minutes
Total Uptime: 6 days 9 hours 23 minutes
JVM Heap Size (Used/Total): 24MB/32MB

SageTV Commands

Except when using a mouse to simply point to and click on menu choices, SageTV is controlled through the use of its commands. Whether the commands are sent via keystrokes, through infrared codes by directly using a supported IR receiver with SageTV, or by sending Windows messages from a 3rd-party application, the commands you can use are all the same. When SageTV is installed, it automatically configured support for some commands to be sent from the keyboard or from a Hauppauge or Streamzap remote. It is up to you to configure the usage of any additional commands.

Most SageTV commands are individual commands that perform one function at a time. A few commands are combo commands, which perform a function depending on the current SageTV context. For example: "Left/Volume Down" will function as a Left command when on a menu, or as Volume Down during media playback.

Sending Commands via Keystrokes

Keystrokes are sent directly to SageTV by using the keyboard, or by using a 3rd-party application that mimics sending keyboard input to SageTV, such as the Hauppauge remote control software. The commands that keystrokes are assigned to can be configured in Detailed Setup by using the option to link a keystroke to a command. See: Link Infrared/Keystroke to SageTV Command.

Sending Commands via Infrared Codes

When using Evation's IRMan (www.evation.com) or a USB-UIRT (www.usbuirt.com), SageTV can directly receive codes from an infrared remote control. Like keystrokes, these infrared codes can be assigned to commands in Detailed Setup by using the option to link an infrared code to a command. See: Link Infrared/Keystroke to SageTV Command.

Sending Commands via Windows Messages

SageTV can also be controlled by events sent as Windows messages through the SendMessage Windows API function call. When sending a command event via SendMessage, the following parameters must be used:

Paramter	To Control SageTV	To Control SageTVClient
Window Class:	SageApp	SageClientApp
Window Name:	SageWin	SageWin
Message ID:	WM_USER + 234 (1258)	WM_USER + 234 (1258)
wParam:	0 (not used)	0 (not used)
lParam:	Event number	Event number

The event numbers for each command are listed in the List of All SageTV Commands, below.

List of All SageTV Commands

Command	Default Keystroke	Event #	Description
Left	Left	2	Moves the menu focus to the item towards the left of the currently highlighted item. If there is no such item, it will return you to the previous menu.
Right	Right	3	Moves the menu focus to the item towards the right of the currently highlighted item. If there is no such item, it will select the item and proceed to the next screen.
Up	Up	4	Moves the menu focus to the item above the currently highlighted item. Many menus will wrap from top to bottom if there is no item above the current one.
Down	Down	5	Moves the menu focus to the item below the currently highlighted item. Many menus will wrap from bottom to top if there is no item below the current one.
Pause	Ctrl+S	6	Pauses playback. For videos: if already paused, advance one frame.
Play	Ctrl+D	7	Resumes playback if paused.
Skip Fwd & Page Right	Ctrl+F	8	Combo command **Playback**: Fast Forward 10 seconds. (This time is adjustable with the videoframe/ff_time property.) **Menus**: Moves one page to the right.
Skip Bkwd & Page Left	Ctrl+A	9	Combo command **Playback**: Rewind 10 seconds. (This time is adjustable with the videoframe/rew_time property.) **Menus**: Moves one page to the left.
Time Scroll		10	See A Note About Time Scroll Playback Mode. The first use of this command enters time scroll mode. Then, use the Skip Fwd & Skip Bkwd commands to jump forward/backward 2:30. (This time is adjustable with the ui/time_scroll_amount property.) Or, use the Skip Fwd #2 & Skip Bkwd #2 commands to jump to the end or beginning of the video, respectively. Use this command again to exit time scroll mode and jump to the new playback location. Use the Play command while in time scroll mode to cancel the time scroll jump.

Command	Default Keystroke	Event #	Description
Channel Up & Page Up	Page Up	11	Combo command **Playback**: If watching live TV, change to the next higher channel number. If playing a DVD, jump to the next DVD chapter. If playing music, jump to the next track. **Menus**: Moves one page up.
Channel Down & Page Down	Page Down	12	Combo command **Playback**: If watching live TV, change to the next lower channel number. If playing a DVD, jump to the previous DVD chapter. If playing music, jump to the previous track. **Menus**: Moves one page down.
Volume Up	Ctrl+R	13	Increases audio volume.
Volume Down	Ctrl+E	14	Decreases audio volume.
TV	Ctrl+V	15	If on a menu: jumps to media playback. If no playback is occurring, live TV will start. If viewing playback: jumps to the mot recently viewed menu.
Play Faster	Ctrl+M	16	For DVD playback: increases playback speed.
Play Slower	Ctrl+N	17	For DVD playback: decreases playback speed.
Guide	Ctrl+X	18	Jumps to the LiveTV Guide. If you have scrolled the guide away from the current time, use this command again to return to the current time in the guide.
Power	Ctrl+Z	19	Puts SageTV to sleep if it is awake, or awakens SageTV if it is sleeping.
Select	Enter	20	Selects the currently highlighted item in a SageTV menu and performs whatever function is appropriate when that item is selected.
Watched	Ctrl+W	21	Toggles the currently highlighted show or recording as having been completely watched or not. If the show has a unique show ID, SageTV will remember that you have watched the show and will not record it again. If Intelligent Recording in enabled, watched shows are considered to be shows that you like.

Command	Default Keystroke	Event #	Description
Favorite	Ctrl+K	22	Marks the currently highlighted show or recording as a Favorite and creates a new entry for that show in the Favorites Manager, if the show is not currently a Favorite. If the show is already a Favorite, it will be removed from your list of Favorites after you confirm the removal.
Don't Like	Ctrl+J	23	Toggles the Don't Like setting for the currently highlighted show or recording. SageTV will not record shows that you mark as Don't Like, unless it is a manual recording. If Intelligent Recording in enabled, shows marked as Don't Like are not considered for recording and will influence which other shows may not be recorded. **Note:** To turn Intelligent Recording on or off, see the Intelligent Recording option at Detailed Setup: General Settings.
Info	Ctrl+I	24	While in a menu: jumps to the detailed information screen for a highlighted video. During playback: Toggles the On Screen Display (OSD) on or off.
Record	Ctrl+Y	25	Toggles whether a highlighted show or recording is marked as a Manual Recording, which take priority over all other types of recordings and will never be automatically deleted by SageTV. Shows listed in the LiveTV Guide that are marked as manual recordings will be added to the upcoming recording schedule.
Mute	Ctrl+Shift+M	26	Toggles audio playback on or off.
Full Screen	Ctrl+Shift+F	27	Toggles whether SageTV should make its Window full screen or not.
Home	Home	28	Jumps to the Main Menu.
Options	Escape, Ctrl+O	29	Toggles the display of the Options pop-up menu for the current menu or media playback type.

Command	Default Keystroke	Event #	Description
Num 0	0, Num0	30	Enters the number 0.
			Used to enter channel changes during media playback. While watching live TV, enter the channel number you wish to watch, then use the Select command. During DVD playback, this jumps to the specified chapter. During music playback, it jumps to the track number.
			In the LiveTV Guide, enter a number followed by Select to jump to that channel in the listings. Or, enter a number and then use the Page Right or Page Left command to jump ahead/back that many days in the guide.
Num 1	1, Num1	31	Enters the number 1.
Num 2	2, Num2	32	Enters the number 2.
Num 3	3, Num3	33	Enters the number 3.
Num 4	4, Num4	34	Enters the number 4.
Num 5	5, Num5	35	Enters the number 5.
Num 6	6, Num6	36	Enters the number 6.
Num 7	7, Num7	37	Enters the number 7.
Num 8	8, Num8	38	Enters the number 8.
Num 9	9, Num9	39	Enters the number 9.
Search		40	Jumps to the Search Menu.
Setup		41	Jumps to the Setup Menu.
Library		42	Jumps to the Media Library & DVD menu.
Power On		43	Wakes SageTV if it is sleeping.
Power Off		44	Sleeps SageTV if it is running.
Mute On		45	Turns audio playback OFF.
Mute Off		46	Turns audio playback ON.
Aspect Ratio Fill		47	During video playback, stretch the video to fill the SageTV playback area.
Aspect Ratio 4x3		48	During video playback, use the video source information to determine the payback aspect ratio.

Command	Default Keystroke	Event #	Description
Aspect Ratio 16x9		49	During video playback, force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so
Aspect Ratio Source		50	During video playback, force playback to fit the video into a 4x3 ratio area, stretching or shrinking the video to do so.
Right & Volume Up	Ctrl+Right	51	Combo command **Menus**: Moves the menu focus to the item towards the right of the currently highlighted item. If there is no such item, it will select the item and proceed to the next screen. **Playback**: Increases audio volume.
Left & Volume Down	Ctrl+Left	52	Combo command **Menus**: Moves the menu focus to the item towards the left of the currently highlighted item. If there is no such item, it will return you to the previous menu. **Playback**: Decreases audio volume.
Up & Channel Up	Ctrl+Up	53	Combo command **Menus**: Moves the menu focus to the item above the currently highlighted item. Many menus will wrap from top to bottom if there is no item above the current one. **Playback**: If watching live TV, change to the next higher channel number. If playing a DVD, jump to the next DVD chapter. If playing music, jump to the next track.
Down & Channel Down	Ctrl+Down	54	Combo command **Menus**: Moves the menu focus to the item below the currently highlighted item. Many menus will wrap from bottom to top if there is no item below the current one. **Playback**: If watching live TV, change to the next lower channel number. If playing a DVD, jump to the previous DVD chapter. If playing music, jump to the previous track.
Page Up	F5	55	Moves one page up.
Page Down	F6	56	Moves one page down.
Page Right	F8	57	Moves one page to the right.
Page Left	F7	58	Moves one page to the left.

Command	Default Keystroke	Event #	Description
Play/Pause	Ctrl+Shift+S	59	Toggles between paused & playing. If playing, playback will pause. If paused, playback will resume.
Previous Channel		60	During media playback, switches to the previously playing media. That could be the previously watched channel while watching live TV, the previously viewed recording or video, or the previously played song.
Skip Fwd #2	Ctrl+F8	61	Fast Forward 2:30 – 2 minutes, 30 seconds. (This time is adjustable with the videoframe/ff_time2 property.)
Skip Bkwd #2	Ctrl+F7	62	Rewind 2:30. (This time is adjustable with the videoframe/rew_time2 property.)
Live TV		63	From a menu: Jumps to the currently playing media, or to live TV playback if no media is currently playing. During playback: Jumps playback to the current time for live TV, or to the end of any other media.
DVD Reverse Play		64	Toggles DVD playback between forward play and reverse play.
DVD Next Chapter		65	Jumps to the next DVD chapter.
DVD Prev Chapter		66	Jump to the previous DVD chapter.
DVD Menu		67	Jumps to the DVD's menu.
DVD Title Menu		68	Jump to the DVD's title menu.
DVD Return		69	Returns the DVD display from a submenu to its parent menu.
DVD Subtitle Change		70	Changes to the next DVD subtitle language, if others are available.
DVD Subtitle Toggle		71	Toggles whether DVD subtitles are displayed.
DVD Audio Change		72	Changes to the next DVD audio language, if others are available.
DVD Angle Change		73	Changes to the next DVD playback angle, if others are available.
DVD		74	Initiates DVD playback if SageTV finds a DVD in the DVD drive on your computer.

Command	Default Keystroke	Event #	Description
Back	Alt+Left	75	SageTV remembers the sequence of menus and playback screens you viewed. Use Back to jump back to the previous SageTV screen you were viewing in that sequence.
Forward	Alt+Right	76	SageTV remembers the sequence of menus and playback screens you viewed. After using the Back command to jump back in that sequence of screens, use Forward to return to the screens ahead of the current one. Forward will not do anything if there are no screens to jump forward to.
Custom1		78	Performs a custom command when using a custom STV, if this command has been assigned a function.
Custom2		79	Performs a custom command when using a custom STV, if this command has been assigned a function.
Custom3		80	Performs a custom command when using a custom STV, if this command has been assigned a function.
Custom4		81	Performs a custom command when using a custom STV, if this command has been assigned a function.
Custom5		82	Performs a custom command when using a custom STV, if this command has been assigned a function.
Delete	Delete	83	Available for all videos except a currently recording video, use this option to remove a video from SageTV and delete it from the computer's disk drive. A pop-up menu will ask for deletion confirmation.
Music Jukebox		84	Jumps to the Music Jukebox menu.
Recording Schedule		85	Jumps to the Recording Schedule.
SageTV Recordings		86	Jumps to the list of SageTV Recordings.
Picture Library		87	Jumps to the Picture Library.
Video Library		88	Jumps to the Video Library.

Command	Default Keystroke	Event #	Description
Stop	Ctrl+G	89	Stops playback of the current media and closes the playback file. If you are on a playback screen, you will be returned to the Main Menu.
			If you are watching live TV and the show is not a scheduled recording, the recording process will stop also.

Chapter 6: Troubleshooting Guide

This Troubleshooting Guide should be your first reference for any questions or problems you are having with SageTV. As new troubleshooting items are added, they will be available online at www.sage.tv/troubleshooting.html. For additional support, you can post your questions in our discussion forum at forums.sage.tv/forums. If your question still remains unanswered, submit a support request at www.sage.tv/request.html and we will reply within 72 hours.

General Crashes and Errors

If you are receiving errors that contain this phrase, "Problem utilizing the specific capture configuration".

You might not be using a supported capture card. Please check our System Requirements page at www.sage.tv/requirements.html.

If you are experiencing random crashes, lockups or freezes in either SageTV or SageTV Recorder:

Be sure you have the latest drivers installed for your TV Tuner/Capture card. You may also want to try upgrading your video card drivers and updating your motherboard's BIOS to the latest version.

Sage crashes on startup or going to Live TV. And/or I get Java errors on startup.

Remove all versions of Java from Add/Remove programs. Install the newest version of Java into its default directory. To download Java, go to java.sun.com/getjava.

If you download the trial versions of either SageTV or SageTV Recorder and you get the following message; "Corrupt installation detected, check source media or re-download":

You must update your Windows Installer to the latest version. Use the "Windows Update" feature of your operating system or go to www.microsoft.com and choose "Windows Update" from the left menu.

If your system hangs or reboots after exiting SageTV or SageTV Recorder:

You need to upgrade to the latest version of your Java Runtime Environment from java.sun.com/getjava. This is a bug with Java Runtime version 1.4.1_01.

I have a little box that bounces around the screen.

Your Elecard Video Decoder (www.elecard.com) trial has expired. Use a different decoder or purchase the Elecard Video Decoder.

If upon starting SageTV, you are getting stuck at "Priming Seeker" on the splash screen, try the following solutions in order:

- ☯ Check your video file directories to see if there are any "0kb" files and delete them and restart SageTV.

- ☯ Delete your sage.properties file and restart SageTV. Note that you will have to go back through the Setup Wizard to restore your configuration settings.

- ☯ Uninstall SageTV and delete the Frey Technologies folder, then reinstall SageTV.

I'm receiving the error message "There was a MPEG-2 video error in playback details: Failed connecting video stream to overlay mixer ErrCode = 0x80040217".

- ☯ Go into your Detailed Setup and click on the Video tab. Change the Rendering Filter from Overlay to Default or vice versa. "Reload Media Player" for version 2.

- ☯ Go into your Detailed Setup and click on the Video tab. Change the Video Decoder you are using. Restart Sage.

- ☯ Make sure you have a Video Decoder installed. Examples, PowerDVD, WinDVD, Elecard, InterVideo, etc.

I'm getting an error during startup of SageTV "Initializing DirectShow Recording Graph: There was a problem utilizing the specific capture configuration. Unable to connect analog video cross streams ErrCode = 0x0040217".

Some other process is using the capture card. Make sure there are no other instances of Sage running in the system tray or any other capture programs running.

I'm using the Hauppauge PVR-USB2 capture device. I'm getting this error message "Failed running the graph for encoding ErrCode=0&80070017".

There is a specific USB patch from Microsoft that corrects this error. Run Windows Update (windowsupdate.microsoft.com) and run all current patches.

Is there a debugging console for SageTV?

The console can be used to troubleshoot problems. You can do this by creating a new DWORD value in the registry. Go to start, run and type in regedit. Here's the path: "**\HKEY_LOCAL_MACHINE\SOFTWARE\Frey Technologies\Common**".
Right click on the Common folder and select New – DWORD Value. Name it "**consolewin**" without the quotes and hit enter. Now double click on consolewin and change the value from 0 to 1. This will open up a DOS window for debugging when you start SageTV.

What does the following error message mean? "There was a problem with the Shared Async Reader Filter. Failure loading file ErrCode=0x80004005".

> If you are getting this error with SageTV Client then try to connect to SageTV by IP address instead of the computer name. If you are not using SageTV Client and this happens with SageTV, then update to the newest version of Java from java.sun.com/getjava.

If your system crashes unexpectedly for any reason while SageTV is running and SageTV does not recognize the TV Tuner/Encoding card upon restart, perform the following:

⊕ Shut down SageTV and open the Sage.properties file from the SageTV directory.

⊕ Find the line "**mmc/ignore_encoders**" and delete the related device that's listed.

⊕ Save the changes and restart SageTV.

Video Issues

I get sound, but my Video is black.

⊕ You might not be using a supported capture card. Please check our System Requirements page at www.sage.tv/requirements.html.

⊕ Go to the display settings for your video card. You more than likely have the Overlay surface set to be on the monitor only, so video will show up as black on your TV.

⊕ Make sure you have a Video Decoder installed and selected in your Detailed Setup -> Video. Try a different Video Decoder. Also try uninstalling SageTV and deleting the Frey Technologies folder. Reinstall SageTV. In V2 you can also try disabling Overlay Color Keying.

My video freezes after a few minutes, but the sound continues.

> Check to see that your video decoder has not expired. Update your video decoder or download a new one to test.

I can't tune to channels above 14.

> Go to Setup > Setup Wizard and select the affected source. On the Source Details menu, make sure the Cable/Antenna setting is Cable instead of Antenna.

If you experience a "black and white" picture using the S-video or composite input on your PVR-350:

> Upgrade to the newest Hauppauge drivers and choose one of the new inputs.

My reception is poor, but it looks fine under WinTV. I'm using the Coaxial input on the capture card.

Go to Setup > Setup Wizard and select the affected source. On the Source Details menu, check the Cable/Antenna setting. Change it from Antenna to Cable or vice versa. Restart SageTV and change channels to make sure it worked.

Poor or snowy picture quality on certain channels or all.

Sometimes the use of a Signal Amplifier can work. Also, change out the cables you are using. If you are using a splitter try using a different splitter.

What can I do to improve the performance of the video quality? (For Hauppauge users)

Try out our registry performance increase for Hauppauge users. This works when you are also using the InterVideo NonCSS Video Decoder for Hauppauge as the selected Video Decoder in SageTV Recorder/SageTV.

Just change these registry settings to 1 while SageTV is shutdown:
   o **HKLM\Software\Intervideo\Custom\Hauppauge\VideoDec\Dxva**
   o **HKLM\Software\Intervideo\Custom\Hauppauge\VideoDec\Hwmc**

For the newer decoders the location is:
   o **HKLM\Software\IviSDK4Hauppauge\Common\VideoDec\Dxva**
   o **HKLM\Software\IviSDK4Hauppauge\Common\VideoDec\Hwmc**

Audio Issues

I get video, but I'm not getting any audio.

You might not be using a supported capture card. For a list of requirements, see the latest requirements listed on the SageTV website at www.sage.tv/requirements.html.

The audio stops being recorded after a certain amount of time. It's fine after I restart SageTV.

Sometimes MSN Messenger can cause this problem. Make sure you disable MSN Messenger. Also, other USB devices can cause this as you plug in and unplug them.

Installation

What software is necessary to run SageTV?

For a list of requirements, see the latest requirements listed on the SageTV website at www.sage.tv/requirements.html.

I can't get SageTV Client to show video. This machine doesn't have a capture card.

You will need a Video Decoder installed.

How do I do a clean reinstall of SageTV?

Go to Add/Remove programs and uninstall Sage. Then delete the Frey Technologies folder. Reinstall SageTV.

What files are necessary to backup so that I don't lose my settings and recordings?

SageTV automatically backs up your configuration and data files. If you wish to keep an extra backup, you can backup your Sage.properties and Wiz.bin files. **Note:** If you are doing a clean install of SageTV to repair a problem, remember that the properties file may have been the source of the problem, so do not restore it after reinstalling in this case.

I want to create a new machine for Sage and I want to keep all my favorites and settings intact. How do I do this?

Keep all your video files in the same drive letter as before. Make sure the new computer has the same name as the old one and move over your Sage.properties and Wiz.bin files. If the computer name does change, set the following property before running SageTV with the old recordings: **make_all_mediafiles_local=true**

What Video Decoder and Audio Decoders are defaults on my system?

Play an MPEG-2 video in Window Media Player, and then click on File –> Properties. That will list what Video Decoder and Audio Decoder WMP uses. These are the default Decoders.

If you are going to use the new WinTV-PVR-250 MCE with SageTV (by itself or in a multi-tuner setup):

Make sure you install the entire CD that comes with the MCE card before setting the card up in SageTV. If you continue to have problems, try the latest beta drivers available from Hauppauge's FTP Site in the CD.zip file.

Customizations

I can't play DVD's through Sage. What can I do?

Be sure to have selected a DVD compatible Video Decoder and an Audio Decoder. For example the InterVideo NonCSS Video Decoder for Hauppauge or the Elecard Video Decoder are not DVD compatible.

How do I keep the SageTV window always in front of open applications?

Open up SageTV in windowed mode and right click on the blue bar at the top. Click on Video Always on Top.

How come when I play DVD's I get Closed Captioning?

This can happen when using the Default Decoders. You need to choose another Decoder.

How do I get 5.1 sound from DVD playback?

It depends on your setup. You will need a sound card that supports 5.1 out and DVD Decoders. To get ideas for a setup you can search our discussion forums at forums.sage.tv/forums.

Can I use my cable provider's guide instead of the guide built into SageTV?

This is not possible. SageTV needs to use its own guide to work.

Is there a way to automatically skip commercials?

No there isn't. You can set the interval of how much time it skips when you skip forward. It can be 10, 30, or 120 seconds. The default is 10 seconds. See the following properties in Appendix A: SageTV Properties Settings: videoframe/ff_time, videoframe/rew_time, videoframe/ff_time2, videoframe/rew_time2, and ui/time_scroll_amount.

When I play a file in my video library, does SageTV stream the data to the client machines?

Yes it does.

Is there a way to export my recording schedule?

Yes. Make sure SageTV is closed and open up your Sage.properties file and look for this line, "scheduler_export_file=". Type in the path to your file after the "=" sign.

Infrared Devices

How do you configure the Hauppauge remote control?

The receiver plugs into the back of the PVR card. Then, make sure you install the IR Remote application from the Hauppauge CD or website. There should be a little remote control icon in your system tray. After the IR Remote application has been installed and is working, make sure to check the box that says, "Configure support for the Hauppauge PVR-250/350 IR Remote Control", in step 4 during SageTV installation. Check to make sure your batteries are good. If for some reason you install/reinstall the IR Remote application after you have installed SageTV you must then reinstall SageTV. See details for the Hauppauge Remote in the Appendix.

If you are using an Actisys IR-200L:

Make sure you uninstall any software related to the Actisys prior to installing SageTV or SageTV Recorder. SageTV and SageTV Recorder will install the appropriate .DLL file needed to recognize the IR-200L.

If you are experiencing problems with the Actisys IR-200L learning your remote codes:

Try a different learning method. The different learning methods are "press", "tap, tap", "press, tap" and "tap, press".

License

My trial period has run out. Can I get an extension?

There is no way to extend your trial. You will need to reformat your computer or use another computer to try the software again.

I have a valid key for SageTV Client, but I get license errors when I connect to the server. What can I do?

Restart your server.

If you are using the SageTVClient on more than one PC and accidentally entered the same license key from another PC you will get an error message – "Unable to connect to the SageTV Server".

To enter the correct license key, open your SageTV folder, right-click on the SageTVClient.exe file and create a new shortcut. Then right-click on the shortcut and go to Properties. Then enter in the Target line at the end after the quotes a space and then the word REGISTER. The correct entry will look like this:
"C:\Program Files\Frey Technologies\SageTV\SageTVClient.exe" REGISTER.
Then you will be prompted to enter the new license key. After your correct license key is accepted, you can delete the shortcut you just created.

EPG

My SageTV can't connect to the EPG Server to gather the guide information. What can I do?

Make sure you don't have any Firewall protection applications running. Something like ZoneAlarm or Windows XP built in Internet Connection Firewall. If you do, you can open one port on your Firewall protection program. The port is 7760.

International

I don't live in the United States. Is there any way I can get guide data for my Sage?

Go to our configuration page in the Support section of our web site (www.sage.tv/configuration.html) and get the XMLTV EPG Data Plugin.

Misc.

Can I record in either MPEG1 or MPEG2 formats?

Yes you can, but MPEG1 only supports playback and record, no time shifting. There's a link on the configuration page of our web site (www.sage.tv/configuration.html) regarding creating a custom recording quality that uses MPEG1 instead of MPEG2 when using a Hauppauge encoding card. See: www.sage.tv/2_papers/HPquality.txt.

Is there a debugging console for SageTV?

The console can be used to troubleshoot problems. You can do this by creating a new DWORD value in the registry. Go to start, run and type in regedit. Here's the path: "**\HKEY_LOCAL_MACHINE\SOFTWARE\Frey Technologies\Common**"
Right click on the Common folder and select New – DWORD Value. Name it "**consolewin**" without the quotes and hit enter. Now double click on consolewin and change the value from 0 to 1. This will open up a DOS window for debugging when you start SageTV.

Chapter 7: Frequently Asked Questions

Many questions that SageTV users ask are answered in the following sections. Additional answers can be found in our discussion forum at forums.sage.tv/forums. If you need answers to a technical support issue, submit a support request at www.sage.tv/request.html and we will reply within 72 hours.

Setup & Installation

SageTV is having problems controlling my cable box.

For SageTV to control your cable box you must use a third party IR transmitter like the Actisys IR-200L available through Frey's website. You can setup & configure the IR-200L through the Setup Wizard. There you need to teach the IR-200L the commands to change channels on your cable box.

I have the IR-200L configured properly but it's missing some of my channel changes.

The IR-200L needs to be positioned so that your cable box can receive the Infrared commands that are sent by the transmitter. Look to see where the Infrared receiver is on your cable box and position the IR-200L so that it's sending the commands to that Infrared receiver within the cable box. You may have to try a few different positions to get the best results. You may also need to adjust the delay times between IR codes sent to your box.

SageTV is having problems controlling my satellite receiver.

For SageTV to control your satellite receiver you must either use the Actisys IR-200L as explained above for cable box control or a serial cable. If you are using a serial cable to control your satellite receiver, make sure you've selected this option during the Setup Wizard.

SageTV is not recognizing my remote control through my IRMan or USB-UIRT receiver.

Check to make sure you have the correct COM or USB port selected in Setup > Detailed Setup > Commands > Infrared Receiver Port for IRMan/UIRT.

Watching Live TV

I'm not getting any video through SageTV.

First check all your video connections to and from the PC. Also check to make sure you have the correct connection/source selected in SageTV in the Setup Wizard. Then launch the application that came with your TV tuner/capture card and see if you get any video

there. If not, follow the troubleshooting instructions from the manufacturer. If you see video through the manufacturer's application, try using a different video decoder within SageTV. You can access the MPEG2 Video Decoder Filter settings at Setup > Detailed Setup > Video. If the problem persists then check the discussion forum (forums.sage.tv/forums) for other discussions related to your setup or create a new post.

I'm not getting any audio through SageTV.

First check all your audio connections to and from the PC. Then launch the application that came with your TV tuner/Capture card and see if you hear any audio there. If not follow the troubleshooting instructions from the manufacturer. If you hear audio through the manufacturer's application, try using a different MPEG2 Audio Decoder Filter within SageTV. You can access the Audio Decoder settings at Setup > Detailed Setup > Audio. If the problem persists then check the discussion forum (forums.sage.tv/forums) for other discussions related to your setup or create a new post.

The audio and video are out of sync during playback.

Try changing channels or putting SageTV to sleep and restoring it. If that doesn't work, shut down SageTV and reboot your computer. If you are still having problems on a regular basis, you can modify the Audio Playback Delay in Setup > Detailed Setup > Audio.

I'm getting audio and video but the video is of poor quality, stuttering, hesitating, etc.

Try another Video Renderer or MPEG2 Video Decoder Filter from Setup > Detailed Setup > Video. You must put SageTV to sleep or restart for these settings changes to take effect.

I'm trying to select a program to view from the Live TV guide but it won't play.

Check to make sure you are selecting a program within the current time slot. Programs on Live TV are only available for viewing within their original time slots. If SageTV recorded a program it would appear under Sage Recordings.

Recording Programs

Can SageTV record while my PC is not on?

For SageTV to record programs your PC must be on and the SageTV application must be running. You can put SageTV to sleep instead of shutting down the application, then SageTV will appear in your Taskbar/System Tray. SageTV will then be able to perform all recordings and you will be free to use your PC for other operations. See Sleeping SageTV.

Can I watch a program while it is being recorded?

Yes, you can watch a program as it is being recorded. To view the program either select LiveTV Guide from the Main Menu and select the specific program in the listings, or go to SageTV Recordings and select the currently recording show.

Can I watch a different program while one is being recorded?

Yes, you can watch one program while it is recording another as long as it's a previously recorded program. If you are using multiple tuners, you can also watch different "Live" programs at the same time.

What if I want to record two programs on at the same time?

SageTV supports the use of multiple tuners to record more than one channel at a time. Install the additional tuner cards according to the manufacturer's instructions, then launch SageTV and go through the Setup Wizard to configure the additional tuners. You will then be able to schedule as many recordings at the same time as the number of tuners installed and configured for SageTV to use.

What if I set up conflicting recordings?

SageTV has extensive Conflict Resolution that will prompt you of any Favorites or Manual Recordings that are scheduled to be recorded at the same time. You will then be able to tell SageTV the priority of these recordings. When shows are aired at multiple times, SageTV will automatically record another airing to fit both programs in, when possible. For information about conflict notifications, see: Recording Information.

Some of my programs especially sporting events are being cut off at end, how can I fix this?

SageTV records programs based on their allocated time span by the networks. Some events can go past their allocated time on occasion. To alleviate this you must "pad" the beginning or end of a program when you specify it to be recorded. To add padding, go to the Recording Schedule, select a show to view its Program Information, then select Record Options to adjust its start or stop time. (Select Record if Record Options isn't visible.) View the Favorite Details of a Favorite to always add padding for those recordings.

How do I record a Pay-Per-View event?

You can browse Pay-Per-View events by utilizing the guide within your cable box or satellite receiver. Once you find what event you are going to order, submit your order and then add that channel to SageTV in the Channel Setup. Now you can specify it for recording at the airing time from the LiveTV Guide. Once the event is over remove the channel from the Channel Setup screen again.

The SageTV service

The LiveTV Guide is not getting updated programming information.

First go to the System Information screen to see when SageTV last updated the LiveTV Guide data. You can access this through Setup > System Information. If it says the last attempt failed, check your internet connection or the Autodial if Needed for Internet option located within Setup > Detailed Setup > General.

A portion of my LiveTV Guide says "No Data".

This means that the station has not provided programming data for that period or you've gone past the amount of data available for approximately the next 14 days. Also, if you have just finished configuring SageTV, it may not have had time to download all the guide data.

Some of my channels are not appearing in the LiveTV Guide.

Go to Setup > Channel Setup and see if you have that channel selected for viewing. If the channel does not appear in the lineup there is a discrepancy between Zap2it, our Programming Data provider and your service provider. Please send us an email at support@freytechnologies.com so we can contact Zap2it directly.

I'm behind a firewall and I'm having problems accessing the SageTV service. What ports do I need to have open on the firewall to allow SageTV to communicate to the server?

SageTV uses port 7760 in TCP/IP mode.

Configuration & Customization

My PC clock is out of sync with my programs.

You can have your PC system clock sync up with the SageTV guide server, which is set to the Atomic clock on a daily basis. This option is available in Setup > Detailed Setup > General.

Appendix A: SageTV Properties Settings

In addition to the customization settings available on the Detailed Setup menus, SageTV has additional advanced settings that can changed by editing the **Sage.properties** file, found in your SageTV directory. (SageTVClient uses **SageClient.properties**.) Some of the properties file settings correspond to settings made within SageTV. We recommend saving a copy of your existing properties file before editing it.

To change any of the settings in this file, you must first exit SageTV or SageTVClient completely; do not just put it to sleep. See Exiting SageTV. If you do not exit SageTV first, any changes will be overwritten the next time SageTV exits and the new settings will never be used. After exiting, you can edit the properties file in any basic text editor, such as Windows Notepad with Word Wrap turned off. When done, save the file and restart SageTV or SageTVClient.

Note: You will need to precede any of the three special characters ':' (colon), '=' (equal sign), or '\' (backslash) with a '\' backslash before using them in a property value. However, when the equal sign is used to assign a property value, it does not need the extra backslash.

Configurable properties for SageTV Version 2.0

actisys_irtune_global_preroll

> amount of time in milliseconds to wait after a channel switch before performing any external tuning operation

aggressive_negative_profiling

> if enabled, Intelligent Recording will try harder to understand what the user doesn't like

always_autotune

> true/false to allow autotuning for best frequency

antialias_text

> whether or not to use antialiasing for rendering text

antialias_text_point_size_min

> if antialiasing text is enabled, fonts below this point size will not be antialiased

epg/epg_import_plugin

> Java class name for EPG plugin

close_video_on_pvr350osd_reset

> if the PVR350 OSD reports an error this will also close the MediaPlayer before trying to reset the 350 OSD

disable_desktop_ui_rendering

disables drawing the UI to the desktop window when 3D Acceleration is **Disabled** in the Detailed Setup: Advanced Settings configuration menu

epg/logo_dir

directory to use for importing channel logos in .jpg, .gif. or .png format

java2d_render_higher_quality

enables high quality rendering when the 3D renderer is disabled

make_all_mediafiles_local

if set to true, SageTV will update the database so that it thinks all Media Files are local to the server; should be used if the name of the PC that is running the SageTV server is changed

minimum_video_memory_for_dx9

the minimum amount of VRAM of computer needs to have to allow 3D acceleration to be enabled

mmc/always_tune_channel

true/false to force a channel tune for each recording even if the next recording is on the same channel

mmc/country_code

number which specifies which country's tuning frequencies to use for channel tuning, list can be found at: http://msdn.microsoft.com/library/default.asp?url=/library/en-us/directx9_c/directx/htm/countryassignments.asp

mmc/feature_mask_disable

allows disabling of certain hardware multimedia functions, a value of 8 will disable the Hauppauge Micronas hack which may be causing PAL users some problems

mmc/ignore_encoders

list of the capture devices for SageTV to ignore, these will NOT show up in the list of capture devices

mmc/encoders/XXX/encoder_merit

used to determine which capture device is 'preferred' when all other things are equal; higher numbers mean higher priority

mmc/encoders/XXX/never_stop_encoding

will cause SageTV to never stop recording on that capture device, helps fix problems with the PVR350 TV output crashing

remove_padding_on_back_to_back_favorites

when two Favorites are on back-to-back on the same channel it causes any padding to be ignored for that junction

sagetv_port

port to use for TCP/IP connections between the SageTV Client & SageTV

scheduling_lookahead

the amount of time SageTV should plan out its recording schedule in milliseconds

scheduler_export_file

set to write a file out with the current Sage recording schedule, can be used to create a simple web page to show SageTV's current scheduled recordings

screen_saver_wait_time

milliseconds till SageTV Screen Saver kicks in when enabled

seeker/channel_change_ask_advance

amount of time before SageTV needs to change the channel that it will ask, in milliseconds

seeker/clear_partials_and_unwanted_when_ir_off

true/false deletes all recordings that were not requested but made due to timeshifting, such as watching live TV, when Intelligent Recording is disabled

seeker/library_import_filename_extensions

list of filename extensions that are valid for Library importing

seeker/max_duration_encoder_reset

the maximum amount of time that can pass before resetting a non-multiplexed MPEG encoder, in milliseconds

sleep_on_close

Set to true/false to determine execution when exiting SageTV: if true, SageTV will go to sleep, if false, SageTV will exit. See Exiting SageTV.

startup_delay

causes a sleep when the app loads before it does anything, can help with loading at startup issues

ui/disable_2d_double_buffering

disables double buffering in the UI when not using the 3D renderer

ui/disable_screen_saver_and_pm

> true/false, will turn off system screen saver and power management when SageTV is in use if true

ui/fixed_resolution_height

> height for the PVR350 OSD in pixels, set to 576 to use the PVR350 OSD in PAL format, also set the DWORD registry variable:
> **HKEY_LOCAL_MACHINE\SOFTWARE\Frey Technologies\Common\NTSC=0**

ui/focus_follows_mouse

> if true then items will obtain the focus when the mouse cursor moves over them

ui/system_memory_2dimage_cache_size

> minimum bounds to use when maintaining the system memory image cache

ui/system_memory_2dimage_cache_limit

> maximum bounds to use when maintaining the system memory image cache

ui/thumbnail_folder

> folder to store thumbnails created by SageTV for imported picture files

ui/thumbnail_height

> height to use when generating thumbnails

ui/thumbnail_width

> width to use when generating thumbnails

ui/video_memory_image_cache_limit

> the maximum amount of VRAM that SageTV will use to cache 3D textures

use_episodes_in_filenames

> true/false to add the episode names of a show to the filename generation

use_errant_dir

> true/false to move errant recordings to a different folder for future deletion rather then delete the files immediately

videoframe/additional_audio_filters

> additional options for the Audio Decoder Filters. Semicolons separate groups, comma separate elements within groups. Groups are FilterName,FilterInputPin,FilterOutputPin

videoframe/additional_video_filters

> additional options for the Video Decoder Filters. Semicolons separate groups, comma separate elements within groups. Groups are FilterName,FilterInputPin,FilterOutputPin

videoframe/disable_visualizations

> true/false for music visualizations

videoframe/ff_time

> milliseconds adjustment for Skip Forward

videoframe/ff_time2

> milliseconds adjustment for Skip Fwd #2

videoframe/local_encoding_to_playback_delay

> the amount of time SageTV should wait after starting recording of a file to start playing it back if the capture device is not a network encoder

videoframe/network_encoding_to_playback_delay

> the amount of time SageTV should wait after starting recording of a file to start playing it back if the capture device is a network encoder

videoframe/rew_time

> milliseconds adjustment for Skip Bkwd (should be negative)

videoframe/rew_time2

> milliseconds adjustment for Skip Bkwd #2 (should be negative)

videoframe/skip_dvd_menus

> when playing back a DVD SageTV will attempt to skip over any DVD Menus and start playing the movie directly, sometimes this is not allowed by the DVD

videoframe/time_behind_live_to_disable_skip_forward

> the amount of time you can be behind 'live TV' for SageTV to not allow you to try to skip forward anymore

videoframe/time_to_start_into_tv_file_playback

> amount of time to start after the beginning of anything recorded from TV, used to avoid seeing the channel change at beginning of a recording

videoframe/volume_step

> fraction to increase the volume by for volume adjustments (scale of 1-100)

wizard/clear_profile

> will remove all information from the database concerning things you've watched or recorded and all of your favorites

wizard/clear_watched

> will remove all information from the database about things you've watched with SageTV

wizard/widget_db_file

> the STV file that SageTV should load for its application definition, including the full path to the file.

Configurable properties if using the default OriginalV2.stv file

autohide_osd

> specifies whether or not the OSD should autohide after the osd timeout expires

mame/mame_docs_path

> path to the folder that contains the game information file

mame/mame_exe_path

> path to the .EXE that launches mame

mame/gamelist_filename

> filename for the gamelist.txt file to get the extended game names from

mame/mame_images_path

> path to the folder that contains images used to represent mame ROMS, the image name should match the ROM filename but use a .png file extension

mame/mame_roms_path

> path to the folder that contains the ROM files to list in the UI

mame/mame_working_directory

> directory to launch the mame executable from

osd_autohide_time

> milliseconds for autohide of OSD

ui/epg_col_duration

> millisecond time frame for the width of the columns in the LiveTV EPG

ui/epg_num_cols

> number of columns (time frame blocks) to display in the LiveTV EPG

ui/epg_num_rows

> number of rows (channels) to display in the LiveTV EPG

ui/base_font_size

> font point size for general text

ui/base_font_style

> font style (Plain, Bold, Italic or BoldItalic) for general text

ui/base_font_face

> font name for general text

ui/controls_font_size

> font point size for button text

ui/controls_font_style

> font style (Plain, Bold, Italic or BoldItalic) for button text

ui/controls_font_face

> font name for button text

ui/heading_font_size

> font point size for main menu items

ui/heading_font_style

> font style (Plain, Bold, Italic or BoldItalic) for main menu items

ui/heading_font_face

> font name for main menu items

ui/picture_library_num_rows

> number of rows to use in the Picture Library menu

ui/picture_library_num_cols

> number of columns to use in the Picture Library menu

ui/show_video_background_item

> enables the "Video Background Color" menu item in Detailed Setup->Advanced

ui/subheading_font_size

>   font point size for heading text items

ui/subheading_font_style

>   font style (Plain, Bold, Italic or BoldItalic) for heading text items

ui/subheading_font_face

>   font name for heading text items

ui/title_font_size

>   font point size for menu titles

ui/title_font_style

>   font style (Plain, Bold, Italic or BoldItalic) for menu titles

ui/title_font_face

>   font name for menu titles

ui/show_mame_menu

>   enables the "Arcade Games" menu in the Media Library

ui/time_scroll_amount

>   milliseconds to jump for each use of FF/REW in Time Scroll mode

ui/watched_font_style

>   font style (Plain, Bold, Italic or BoldItalic) for watched text items

Appendix B: Adding Channel Logos

SageTV supports the use of channel logo images in the LiveTV Guide, or nearly any place where the channel name is displayed. The logos are stored in the directory specified by the epg/logo_dir property, by default this would be a subdirectory named **"ChannelLogos"** in your SageTV directory. SageTV can import logos stored in the JPEG (.jpg), GIF (.gif), or PNG (.png) formats.

To add a logo for a channel, first determine the channel name: simply look at the LiveTV Guide to see the name displayed under the channel number. In the screen portions shown, channel 39 is TBS. The channel name is then used as the name of the image file to be used as the logo: if the file happens to be a JPEG image, the filename would be: "**tbs.jpg**", without the quotes. Place a copy of that file in the logo directory. If SageTV is already running, it will automatically find the file and begin using it as the logo for TBS, so there is no need to restart SageTV. However, sometimes there may be a delay before new logos are recognized and loaded. If you wish to have the logos loaded and used immediately, you can exit and restart SageTV.

Frey Technologies does not provide channel logos. You may either create the images yourself or download them from various web sites, such as www.satlogo.com. Search the internet for other logo sources.

Appendix C: Managing Recording Files

SageTV can automatically manage the disk space for all the video directories configured in Detailed Setup: General Settings, including deleting old recordings to make room for new ones. Or, if you prefer, you can manage the recordings yourself, removing recordings you no longer wish to keep by using the Delete command. Either way, if you do happen to run out of available disk space in all your video directories, SageTV will still automatically remove recordings when it needs to do so to make space for new ones.

Where to Store the Next Recording

When SageTV prepares to record a new show, it first must decide where to store the recording. If there is enough free space already available for a recording of the expected size, SageTV will simply choose to store the recording in the video directory that has the most pace available. Thus: the video directory with the most space available for use by SageTV will always be used first. Remember: when determining the amount of space available in a directory, SageTV will take into account the space you may have specified that it should not use on that drive. If the free space is 40GB, but you told SageTV to leave 15GB free for that video directory, only 25GB is available.

Note: It is recommended that you not specify more than one video directory for each drive or partition being used to store SageTV recordings, otherwise SageTV could report that more space is available than there actually is when you view the System Information display.

No More Free Space

At some point, if you allow SageTV to manage your recording files for you, there will not be enough space available for a new recording. When this happens, SageTV will automatically delete an existing recording to make room for another one. Which show gets deleted is determined by the relative priorities of all recording types, with lower priority recordings being deleted before those with a higher priority. From highest to lowest, the priority rankings are:

- ♻ Manual Recordings
- ♻ Favorites
- ♻ Intelligent Recordings
- ♻ Watched Shows
- ♻ Live TV
- ♻ Recordings marked as Don't Like

This ranking means that recordings marked as Don't Like are deleted first; then Live TV; then shows marked as watched; then Intelligent Recordings; then Favorites. If two shows have the same priority, the older of the two will be deleted first. A couple further notes:

⊘ **Manual Recordings are never automatically deleted by SageTV.**

⊘ **Favorites with AutoDelete set to No (Manual) are never automatically deleted by SageTV.**

⊘ **Archived SageTV Recordings are never automatically deleted by SageTV.**

⊘ **Intelligent Recordings will not be scheduled in place of Manual Recordings or Favorites, nor will any unwatched Favorites or Manual Recordings be deleted to make room for new Intelligent Recordings.**

Automatic Cleanup of Live TV

When used with the Intelligent Recording feature disabled, SageTV is initially configured to automatically delete all recordings that are not Favorites or Manual Recordings. So, if you were to watch Live TV, the recording file used while the show is airing will be saved to your drive; however, shortly after it finishes airing and you stop watching the recording, it will be deleted. With all non-Favorites and non-Manual Recordings being automatically deleted, there are a few points to be aware of:

⊘ If you clear the Manual Recording setting for a recording, by using the Record command while the recording is highlighted for example, it will be deleted.

⊘ If you remove a Favorite from the Favorite Details menu, or change a setting such as the First Run/Rerun or Channel options, the shows recorded under that Favorite may no longer qualify as a Favorite and will be deleted.

⊘ If you were using the Intelligent Recording feature and then disable it, those recordings made as Intelligent Recordings will be deleted.

When the Intelligent Recording feature is enabled, this auto-cleanup feature is not enabled, so all recordings will remain on your drive until SageTV needs room for additional recordings. This means that all the partial Live TV files that might have been created when channel flipping will still be on your drive, but they will be some of the first files deleted when additional space is needed. So, don't worry that the files are wasting space: they will eventually be deleted, just not as soon as if auto-cleanup were active.

If you wish to disable auto-cleanup permanently, edit the properties file and set seeker/clear_partials_and_unwanted_when_ir_off to true. Again: while some files will not be deleted immediately, SageTV will delete the unneeded files when more space is required.

Appendix D: SageTV Command Line Parameters

SageTV and SageTVClient can accept a few command line parameters when they are run. To do so, simply add one of the parameters listed below to the command line when the exe file is started, whether you do so at a command line prompt, in a Windows shortcut, in a batch file, or in some other form of script. Note that the character in front of some of the parameters is a single dash ('-', without the quotes) without any space between the dash and the parameter. There is, of course, a space between the exe path and the parameter.

If you wish to create a shortcut where you can use a parameter, open your SageTV folder, right-click on the SageTV.exe or SageTVClient.exe file and create a new shortcut. Then right-click on the shortcut and go to Properties. In the Target line at the end after the quotes, enter a single space and then the desired parameter. The correct entry will look like this, with "parameter" equal to whatever parameter you used:

☯ **"C:\Program Files\Frey Technologies\SageTV\SageTV.exe" parameter**

or

☯ **"C:\Program Files\Frey Technologies\SageTV\SageTVClient.exe" parameter**

The parameters are:

-event #

> Sends the # command message to an already running copy of the same exe. See the List of All SageTV Commands for the event number for each command.
>
> **Note:** If the exe is not already running, using this parameter will have no effect. Also, it will only send a single event number each time the exe is started, so do not use a series of parameters such as "-event # –event #".
>
> An alternative to using this parameter is to use the user-provided **SendMessage** utility, which can send multiple messages to SageTV or SageTVClient each time it is run. See Appendix J: Using the SendMessage Utility

-dvd

> This sends the same command to SageTV as using the -event parameter with the DVD command (-event 74). This could be used to tell SageTV to go to DVD mode as part of DVD autoplay when a DVD is inserted into the drive.

-awake

> Used to awaken an already running copy of the program that is currently sleeping. If SageTV is not already running, SageTV will not start. This is the same as sending the -event parameter with the Power On command (-event 43).

Compare to: Running the exe with no parameters while it is already sleeping also wakes SageTV, and it also starts SageTV if it wasn't already running.

-multi

>   **For SageTVClient only:** allows multiple instances of the client to be started.

-connect hostname

>   **For SageTVClient only:** causes it to connect to the specified server when it starts.

-startup

>   When the property "ui/startup_type=2" is also set, this disables the splash screen and loads SageTV in the system tray.

REGISTER

>   **Note the all-capital letters**. This causes the license key dialog to come up so you can change the key SageTV or SageTVClient is using. The current license is cleared from the PC. If the trial period is over, SageTV and SageTVClient will not run until a valid license has been entered. See License Key Registration

Appendix E: Remote Controls

SageTV can be purchased from Frey Technologies along with either the Hauppauge remote that comes with many of the Hauppauge encoder devices, or the Streamzap remote. Both of these devices can be installed with a default layout for use with SageTV.

Hauppauge Remote

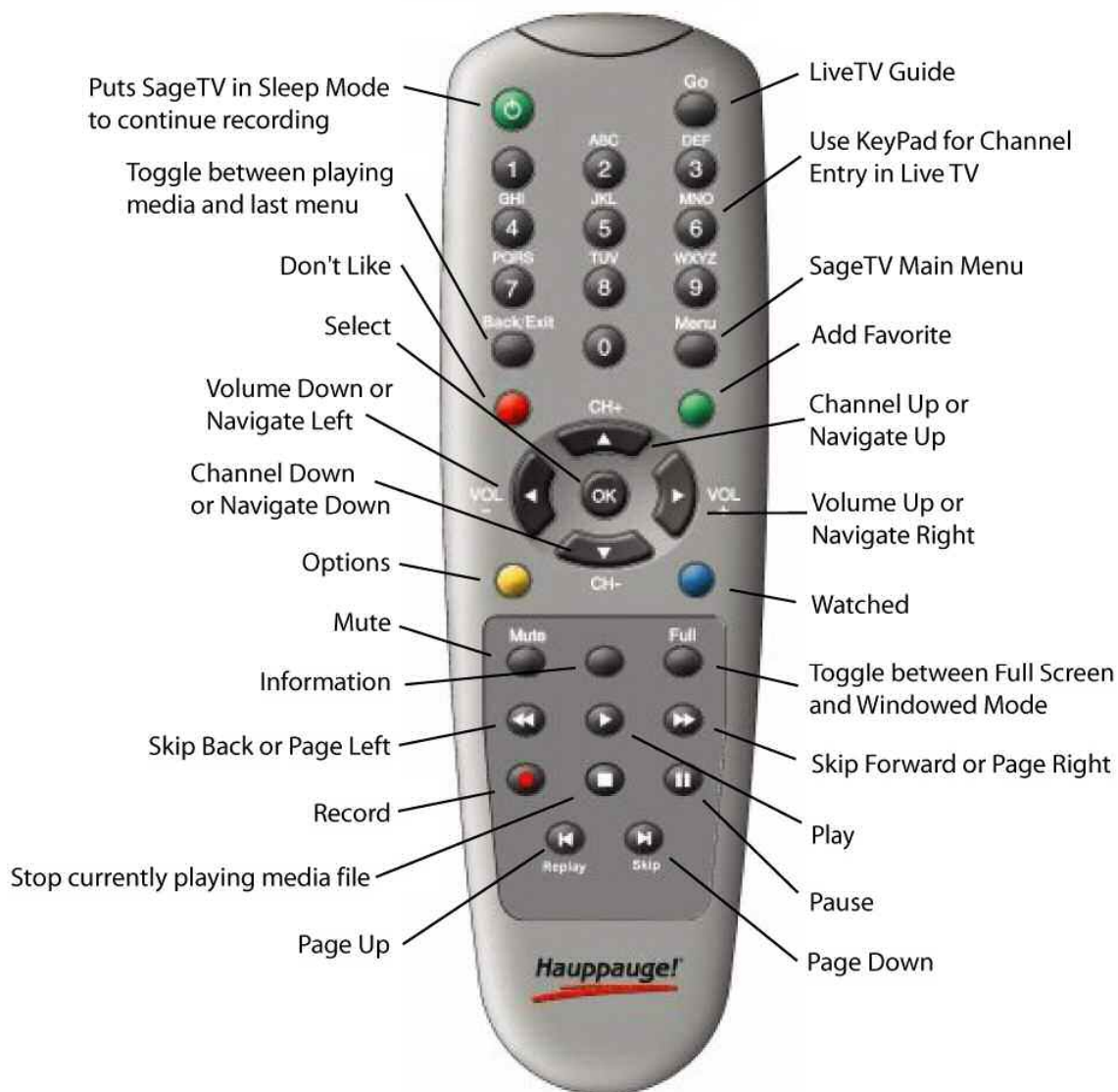### Hauppauge Remote Control Installation Instructions

In order to use the Hauppauge remote with SageTV, you must first install the Hauppauge remote control software before installing SageTV. Then, when SageTV is installed, be sure to check the option to configure support for the Hauppauge remote control in step 4 of the SageTV or SageTVClient install process. The default button layout is shown on the next page.

SageTV Configuration Options for the Hauppauge Remote

Using its initial setup, the Hauppauge remote simply sends keystrokes to SageTV, so it will only work when SageTV has Windows focus – when it is the active application receiving keyboard input. An easy way to customize this remote, then, is to use the Link Infrared/Keystroke to SageTV Command option in Detailed Setup: Commands Settings. Simply reassign a command by pressing the remote button instead of pressing a key on the keyboard when prompted to do so.

For further information about configuring the remote to be able to wake SageTV when it is sleeping, to work when SageTV does not have focus, or even to use the remote to control other applications, please go to our discussion forum at forums.sage.tv/forums.

SageTV Preconfigured Hauppauge Remote Control Commands

Puts SageTV in Sleep Mode to continue recording

Toggle between playing media and last menu

Don't Like

Select

Volume Down or Navigate Left

Channel Down or Navigate Down

Options

Mute

Information

Skip Back or Page Left

Record

Stop currently playing media file

Page Up

LiveTV Guide

Use KeyPad for Channel Entry in Live TV

SageTV Main Menu

Add Favorite

Channel Up or Navigate Up

Volume Up or Navigate Right

Watched

Toggle between Full Screen and Windowed Mode

Skip Forward or Page Right

Play

Pause

Page Down

Remote Control Shortcuts

Hit "Go" to quickly return to the current time within the LIveTV Guide

Hit "number" and "Skip Forward" or "Skip Back" to jump ahead/back in the LiveTV Guide that "number" of days.

Streamzap Remote

Streamzap PC Remote Control Installation Instructions

DO NOT plug the USB infrared receiver into your PC yet.

Step 1:

Install the provided AAA batteries

Step 2:

If your PC is off, turn it on and wait for it to finish booting

Step 3:

Download the latest Streamzap drivers from www.streamzap.com/downloads and run the exe.

Step 4:

Follow the on-screen instructions. When the software asks you to plug in the USB infrared receiver, do so.

Step 5:

Wait for Windows to detect the hardware and install the device drivers. This can take anywhere from a few seconds to a minute or longer on slow computers. On Windows XP, always choose to "Install the software automatically".

Step 6:

Once the hardware is properly installed, a full-screen slide show will appear to introduce you to your new PC Remote.

If you need help installing the Streamzap PC Remote, please see www.streamzap.com/support.

SageTV Configuration Options for the Streamzap Remote

If you are using the Streamzap PC Remote control with SageTV, you can customize the Red, Green, Yellow and Blue buttons to control SageTV commands. To assign these buttons to SageTV, right-click on the Streamzap application running in the System Tray and select "Settings". You'll be presented with the following screen:
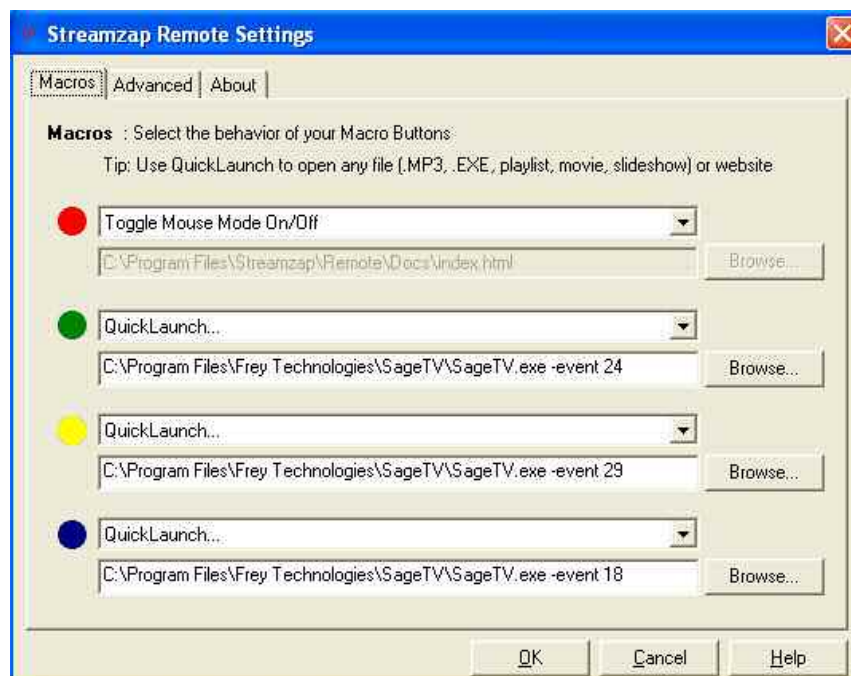
If you would like your Streamzap remote to mirror the settings on the diagram located on the next page, then assign the QuickLaunch buttons according to the following:

Red

Toggle Mouse Mode On/Off to take advantage of the mouse functionality of the Streamzap remote

Green (SageTV "Info" command)

c:\Program Files\Frey Technologies\SageTV\SageTV.exe -event 24

Yellow (SageTV "Options" command)

c:\Program Files\Frey Technologies\SageTV\SageTV.exe -event 29

Blue (SageTV "Guide" command)

c:\Program Files\Frey Technologies\SageTV\SageTV.exe -event 18

The path of SageTV.exe should be the same as where it is installed on your PC if it varies from the above. For a list of the complete event commands available for SageTV, see the List of All SageTV Commands. If you need help configuring your Streamzap PC Remote for SageTV, please contact us at support@freytechnologies.com. For help from other users regarding using the Streamzap remote with Girder (www.promixis.com), please go to our discussion forum at forums.sage.tv/forums.

SageTV Preconfigured Streamzap Remote Control Commands

Can be linked to System
Shut down or Standby

PC System Mute

Use KeyPad for Channel
Entry in Live TV

Channel Up

Channel Down — Volume Up

Up — Volume Down

Left — Right

Select — Down

SageTV Main Menu — Takes you to currently playing media

Play — Stops currently playing media file

Pause — Record

Jump Backward — Jump Forward

Skip Backward — Skip Forward

Link to an executable or
mouse control through
Streamzap application — Guide*

Options*

Info*

*These commands need to be assigned in Streamzap application

Remote Control Shortcuts

Hit "Go" to quickly return to the current time within the LIveTV Guide

Hit "number" and "Skip Forward" or "Skip Back" to jump ahead/back in the
LiveTV Guide that "number" of days.

Appendix F: Infrared Receivers & Transmitters

SageTV has built-in support for use of Evation's IRMan (www.evation.com) to receive commands from infrared (IR) remote controls, the ACTiSYS IR-200L (www.actisys.com/ac200-220.html) to transmit IR codes to change channels on cable and satellite converter boxes, or a USB-UIRT (www.usbuirt.com) to handle both IR reception and transmission.

Evation's IRMan (www.evation.com)

To use the IRMan to receive remote control IR codes for control of SageTV, first install it and its software, following its instructions. Then, in SageTV, configure the COM port it is connected to in Detailed Setup: Commands Settings by using the Infrared Receiver Port for IRMan/UIRT option. After that, use the Link Infrared/Keystroke to SageTV Command option to assign the buttons on your remote to each SageTV command that you wish to use.

ACTiSYS IR-200L (www.actisys.com/ac200-220.html)

If you will be using the Actisys IR-200L with SageTV to control an external set-top device, then please follow these instructions before installation:

1. DO NOT install the Actisys Software or Drivers that come with the IR-200L. If you install this software, you will experience problems using the IR-200L with the Sage software. The appropriate drivers for the IR-200L were already installed when you installed the Sage software.

2. Shut down any instances running of SageTV and turn off your PC.

3. Install the IR-200L into any open Serial port on the back of your PC

4. Turn your PC on and launch SageTV to then setup the IR-200L. Configure the recording source via the Setup Wizard and choose the IR-200L in Step 5: Select the Tuning Plugin.

If you have any questions about installing the IR-200L, make a post to our discussion forum at forums.sage.tv/forums or submit a support request at www.sage.tv/request.html.

USB-UIRT (www.usbuirt.com)

The software and drivers for the USB-UIRT are available on-line at: www.usbuirt.com/getstart.htm. There you will find resources to help you get up and running quickly with your USB-UIRT. Support for this product, as well as the latest software updates, user guides, and FAQ's can be found at: www.usbuirt.com/support.htm.

If you will be using the USB-UIRT with SageTV to control an external set-top device, then configure the recording source via the Setup Wizard and choose the USB-UIRT in Step 5: Select the Tuning Plugin.

If you will be using the USB-UIRT to receive remote control IR codes for control of SageTV, configure the port it is connected to in Detailed Setup: Commands Settings by using the Infrared Receiver Port for IRMan/UIRT option. After that, use the Link Infrared/Keystroke to SageTV Command option to assign the buttons on your remote to each SageTV command that you wish to use.

If you have any questions about installing the USB-UIRT, make a post to our discussion forum at forums.sage.tv/forums in the Hardware Support section or submit a support request at www.sage.tv/request.html.

Appendix G: Network Encoding

SageTV can be used to control recordings made with an encoding device that is installed on another computer on the same network. SageTVRecorder is used on the networked PC to control the encoding device, while SageTV instructs SageTVRecorder regarding which shows are to be recorded. When used in this way, SageTV will make use of the network encoder as if it were a local encoder, with the entire process being transparent to the user once it is all configured.

For further information regarding setting up a network encoding, please see the SageTV Configuration web site at www.sage.tv/configuration.html. Look for the section titled: Setting Up Network Encoders.

Appendix H: Custom Recording Quality Settings

SageTV comes configured with several recording quality settings built in, any of which may be chosen as the default recording quality by using the Recording Quality option in Detailed Setup: Multimedia Settings. Additional recording quality settings may be added by editing the properties file, though some care must be used when creating these new settings to make sure they will work correctly.

For further information regarding creating such custom recording settings, please see the SageTV Configuration web site at www.sage.tv/configuration.html. Look for the Configuration Paper titled: **Hauppauge Cards & Recording Quality**.

For sample custom settings and help in creating new ones, please use our discussion forum at forums.sage.tv/forums.

Appendix I: Playing DVDs from the Hard Drive

After using various software that is available for storing DVDs that you own on your hard drive, it is possible to play those DVD images from within SageTV while still retaining the DVD menus and DVD Playback options. To do so, store the DVD data as a subdirectory of one of SageTV's Library Import Directories, as defined in Detailed Setup: General Settings. Within that subdirectory, be sure to keep the DVD video data stored in its own VIDEO_TS subdirectory structure. The DVD will then be listed as an imported video file in the Video Library as "<DVDTitle>/VIDEO_TS" and will be played as a DVD.

Example: If the library import directory is "E:\DVD" and your DVD is called "DVDTitle", the directory tree would contain:

```
E:\DVD\DVDTitle\
              ├──\AUDIO_TS\
              └──\VIDEO_TS\
                          ├──\VIDEO_TS.BUP
                          ├──\VIDEO_TS.IFO
                          ├──\VIDEO_TS.VOB
                          ├──\VTS_01_0.BUP
                          ├──\VTS_01_0.IFO
                          ├──\VTS_01_0.VOB
                          ├──\VTS_01_1.VOB
                          └──\VTS_01_2.VOB
```

And so on, with additional numbered VTS_##_#.BUP, .IFO, and .VOB files.

Appendix J: Using the SendMessage Utility

When SageTV is installed, SendMessage.exe is also placed in your SageTV directory. If that file is not in your SageTV directory it may be downloaded from the attachment to this forum post: forums.sage.tv/forums/showthread.php?postid=43117#post43117

This utility was created by a SageTV user and is provided by Frey Technologies "as-is". Use of this utility is not supported by Frey Technologies' technical support. If you need help using this utility, please go to our discussion forum at forums.sage.tv/forums.

The SendMessage utility can be used to send commands to SageTV as Windows messages, using the command event numbers. See: Sending Commands via Windows Messages. While SageTV itself can also do this with its -event parameter, SendMessage has a few advantages:

1. The SendMessage exe file is smaller than the SageTV exe file, so it will load and run faster.

2. Unlike the -event parameter, the SendMessage utility is capable of sending multiple commands each time the program is run, making it easier to 'batch process' a series of commands.

3. SendMessage can be used to send messages to any Windows program.

Usage

If SendMessage is run without any parameters, it will display a dialog with a brief outline of its usage instructions. The utility uses the following command line format:

SendMessage WindowClass WindowName MsgID wParam lParam <repeat param list> …

The above-referenced Sending Commands via Windows Messages section lists the values to be used for each of those parameters in order to send command event numbers to SageTV or SageTVClient. To send multiple messages, simply send another series of those five parameters after the first five.

In addition to those parameters, default values for each parameter can be defined when you wish to send multiple messages: once a default value is set, that value can be skipped in the list of parameters for additional messages to be sent. To define default values, use the following options. Note that the values are not case sensitive (-c is the same as –C):

   ☮ -C WindowClass – Define the window class name to receive multiple messages.

   ☮ -N WindowName – Define the name of the window to receive multiple messages.

⊕ -M MsgID – The Windows message number to be sent; decimal value.

⊕ -W wParam – The message's wParam value to be sent; decimal value.

⊕ -L lParam – The message's lParam value to be sent; decimal value.

⊕ -D DelayTime – Time, in milliseconds, to delay between each message sent. This parameter is not usually needed, but was added in case such a delay was ever desired.

Example Use

To show how the parameters might be put into use to control SageTV, let's take a look at a common desire: to have SageTV go directly to a menu that currently has no direct-access command. The Archived SageTV Recordings menu is one such location. The following series of commands will go to that location from anywhere within SageTV:

⊕ Library – Event number 42; go to the Media Library & DVD menu.

⊕ Page Up – Event number 55; Page Up to make sure the top menu item is highlighted.

⊕ Down – Event number 5; arrow Down to the Archived SageTV Recordings menu item.

⊕ Select – Event number 20; Select the menu item to go to that menu.

Putting all the above options together, SendMessage can be used as follows to issue this series of commands for SageTV:

SendMessage.exe -C SageApp -N SageWin -m 1258 -W 0 42 55 5 20

In this example, SageApp is the name of the window class receiving the message; SageWin is the name of the window to receive the message; 1258 is the message ID number; 0 is the wParam value; and "42 55 5 20" is the series of command event numbers to send to SageTV.

Note: To control SageTVClient, use **SageClientApp** instead of **SageApp**.