SageTV™ Version 2.0

SETUP AND CONFIGURATION GUIDE

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Installation of the SageTV Software

Thank you for purchasing or downloading the trial version of SageTV™ 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.

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/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 place this doesn't hold true is in the Live TV Guide and during Media Playback. When using SageTV with a mouse, the "Left" arrow in the upper left-hand corner of the screen is for "Back". Instead of implementing a "Right" arrow, items can just be selected with the mouse.

- 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. The linked remote codes are shown in the end of this document.

- When playing back Music, the Channel Up/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.

Installation and Setup

This manual assumes that the SageTV compatible TV tuner/MPEG-2 encoding card or USB device has been installed and is functioning properly. If not, please follow the installation instructions that shipped with your card prior to installing SageTV. We recommend installing all of the software applications that came with your card for testing purposes.

Software Installation

Run the executable (.EXE) file you downloaded after purchasing SageTV to install SageTV on your computer. During installation you will need to specify the following installation options:

Install Options:

If you will be using a Provideo 256 Series card, choose to install the additional files here…

If you plan on using the Hauppauge PVR-250, PVR-350 or USB PVR2 remote control to control SageTV, tell SageTV to configure support for those remotes here…
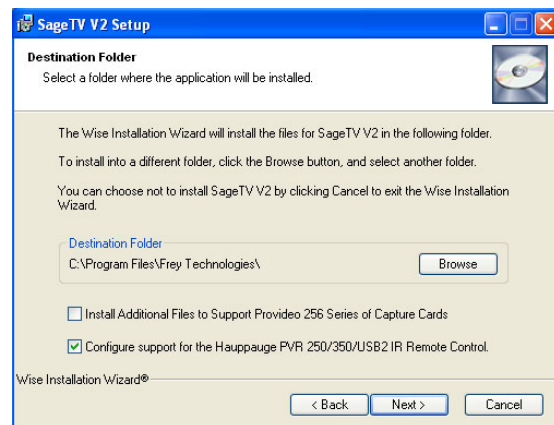
If Java Runtime Environment v1.4 or later is not installed, the installer will install Java automatically.

Once installation is complete, launch the SageTV application and input your name and license key exactly as it was provided to you. If you are using the 15-day trial of SageTV, just click OK to bypass the license key screen. After SageTV loads, the Setup Wizard for SageTV will launch automatically.

Setup Wizard

If you need to run the Setup Wizard manually, choose Setup from the Main Menu. Please make sure your computer is connected to the Internet before beginning the Setup Wizard. To navigate within the Setup Wizard, you will need to use your keyboard to select and enter choices. If you have already gone through the Setup Wizard and return later, skip to page 9.

Device Select:

Select the video capture device you want to configure for SageTV. If you are going to configure multiple devices or sources, you'll need to complete the Setup Wizard for each device or source separately.
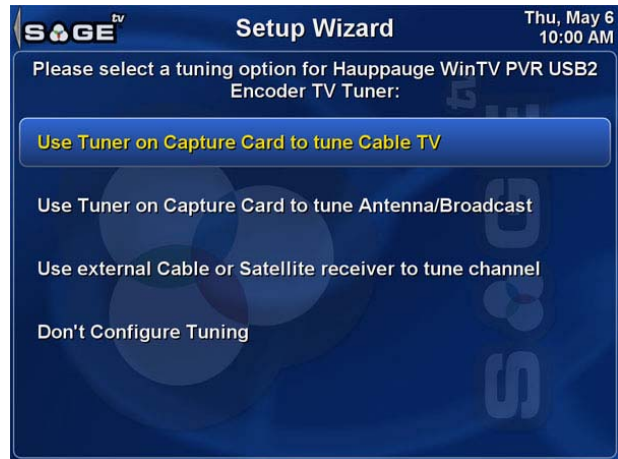
Device Input:

Select the input you are configuring for the video capture device. Refer to your hardware installation manual if you need clarification on what to select.

Tuner Options:
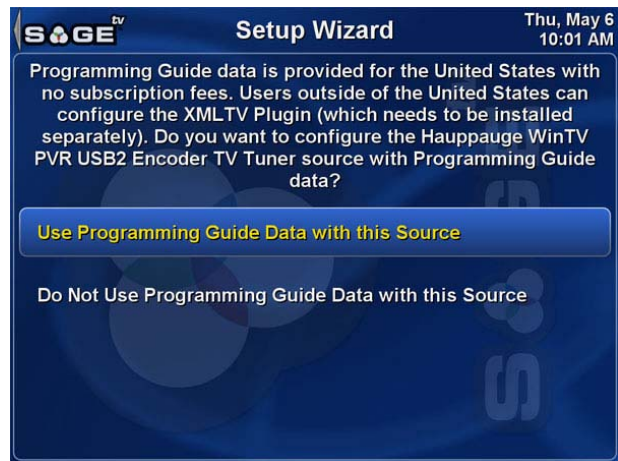
If you are using the tuner as your input, select how the tuner will be used.

Programming Data:

Choose whether or not you want to use Programming Data. For information on using the XMLTV plugin, please see our website at www.sage.tv/configuration.html.

Provider Type:

Select whether or not you receive Cable or Satellite or if you receive your Television signal from "Over-The-Air".

Zip Code:

Enter your Zip Code. SageTV will then contact the
SageTV server to access service provider options.
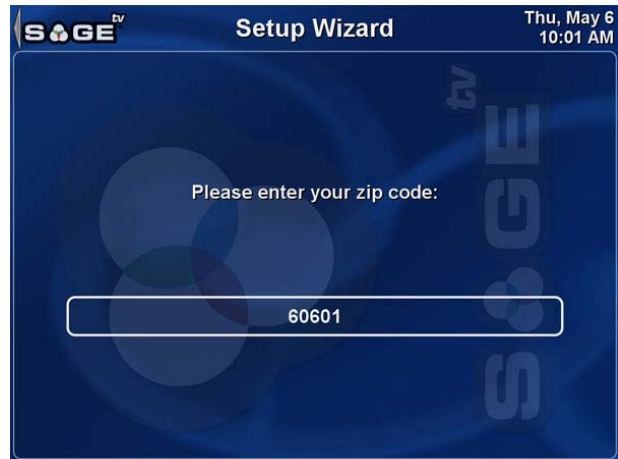
Service Provider:

Select your cable, satellite or broadcast service
provider from the list. If your service provider is
not listed, go back and try a different zip code near
your area. If you choose "Local Broadcast", you
must then choose the area from which you receive
your broadcast stations.

Service Level:

Choose the level of service that most closely
matches what you subscribe to from your service
provider. If you don't know what service you
subscribe to, select Extended Basic Service for a
complete channel lineup.
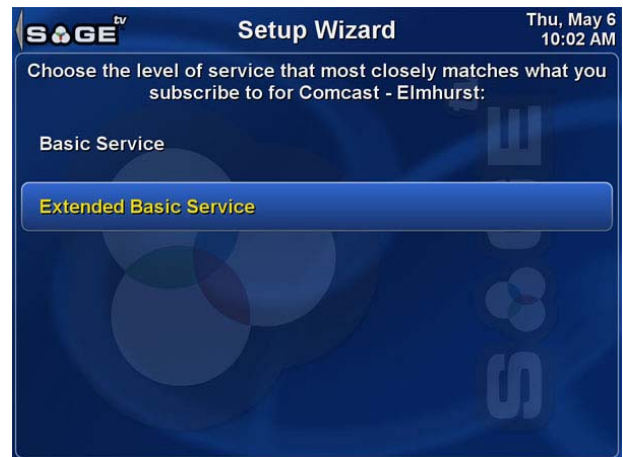
Channel Setup:

You will now be provided with a list of channels available for the selected lineup. Indicate whether or not you receive a given channel. A green dot next to a channel indicates you receive that channel and would like to record from that channel with SageTV. When you are done, click on "Done with Channel Setup" to continue. Selecting "View" next to a channel will show a preview window of the channel selected. You can also re-map channels according to your local channel lineup if there are any discrepancies.

Complete Setup:

If you were configuring the device using the TV Tuner to receive your signal, then Setup is complete. If you were configuring any other input or need to control an external device Setup will continue automatically.

Tuning Plugin:

If you selected an input that requires an external device to tune, select the plugin device here.
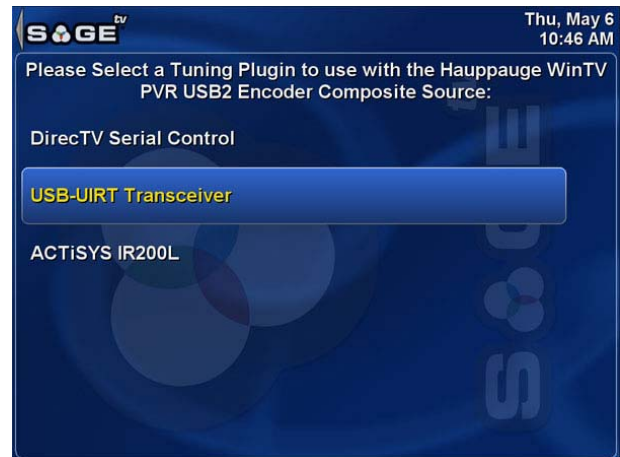
Receiver Selection:

Select your cable box or satellite receiver model.
You may be able to locate this information on the
back of the unit or by contacting your service
provider. If your device is not listed, choose "Add
New Device". You will then be prompted to enter
a name for your device.

Receiver Name:

If you chose to "Add New Device". Enter a name
for your device.

Teaching New Device:

Now you must teach SageTV the commands for
your cable box or satellite receiver. Point the
remote control for your unit at the window on the
Infrared Transceiver; hold it between 6 and 24
inches away. Push and hold down any of the
numeric (0-9) buttons until told to release the
button. The carrier frequency and bitrate for your
remote control are being determined. This may
take a couple of minutes, so please be patient.
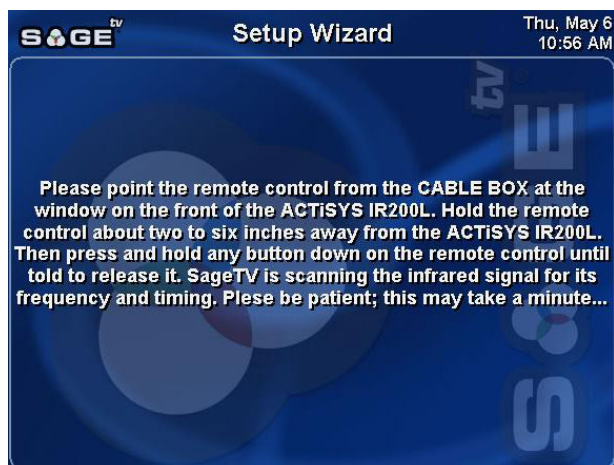
*Note: Due to some problems with the Actisys IR-200L driver, you may notice a crash in SageTV when
setting up a new device. This is outside of our control and we are limited by the third party nature of this
driver. Please be patient and try again after restarting SageTV.*

Complete Setup:

Once the external Infrared (IR) control is finished, initial Setup of SageTV is complete. From here you can Complete Setup and start using SageTV. You can also make changes to the Setup by selecting the source to edit. If you want to make changes later, choose Setup Wizard from the main Setup menu. To set up an additional device or source choose "Add New Source" and go through the Setup Wizard again.
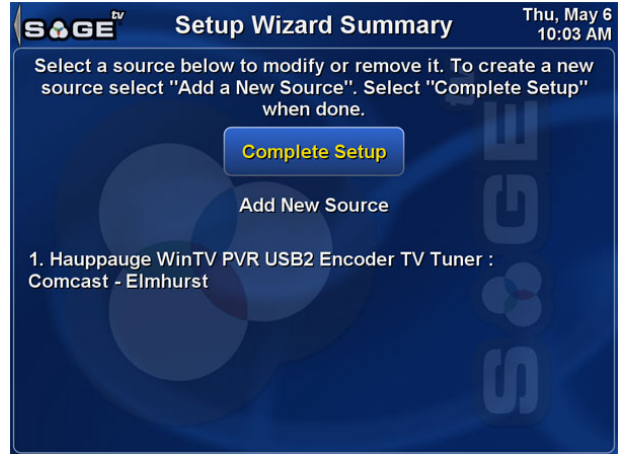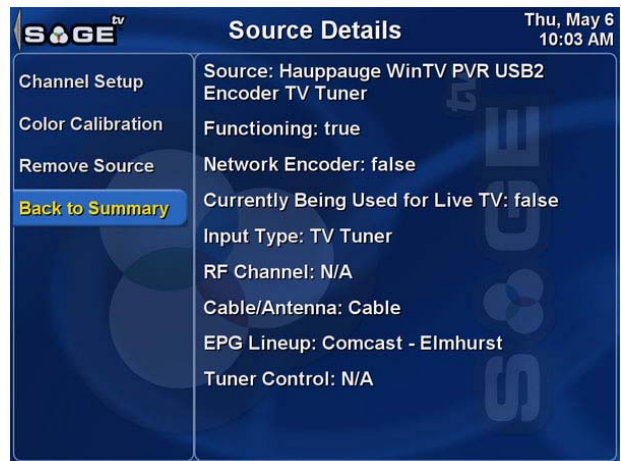
Source Details:

From here you can make changes to the initial setup choices for a specific source. A few specific items to note are adjustments to "Color Calibration" and "Tuner Control".

Color Calibration:

Select "Color Calibration" from the Source Details page to adjust the Brightness, Contrast, Saturation, Hue and Sharpness for each source. After each adjustment wait a few seconds for the changes to cycle through the video. (Color Calibration cannot be adjusted on Network Tuners).
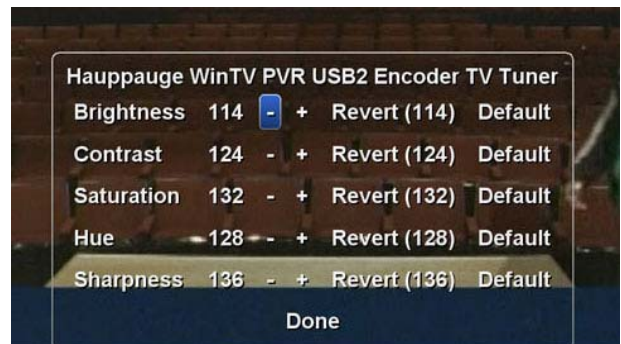
Tuner Control:

By selecting "Tuner Control" from the Source
Details page you can adjust any of the settings for
controlling an external tuner. Choose "Test
Infrared Code" to test the IR commands being sent
to the external device. Choose "Reprogram
Infrared Code" to reprogram the current IR
settings. Choose "Learn New Command" to setup
required new IR commands. Choose "Remote
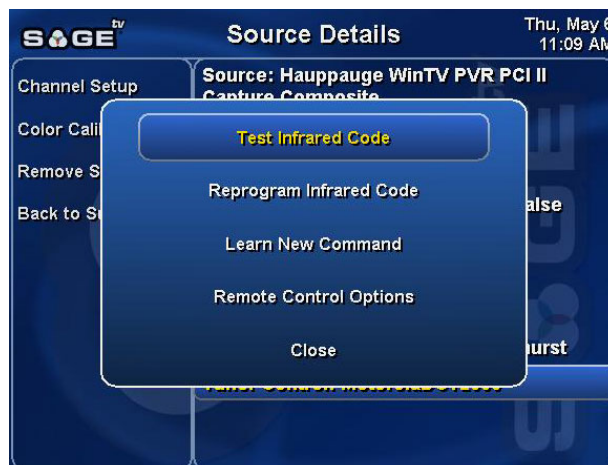Control Options" to adjust timing between IR
signals for channel changes.

Configuration Options – Detailed Setup

Detailed Setup is available from the Main Setup Menu. Detailed Setup contains all other configuration
options for SageTV. It's recommended you review the Detailed Setup options prior to using SageTV for
the first time.

General Settings
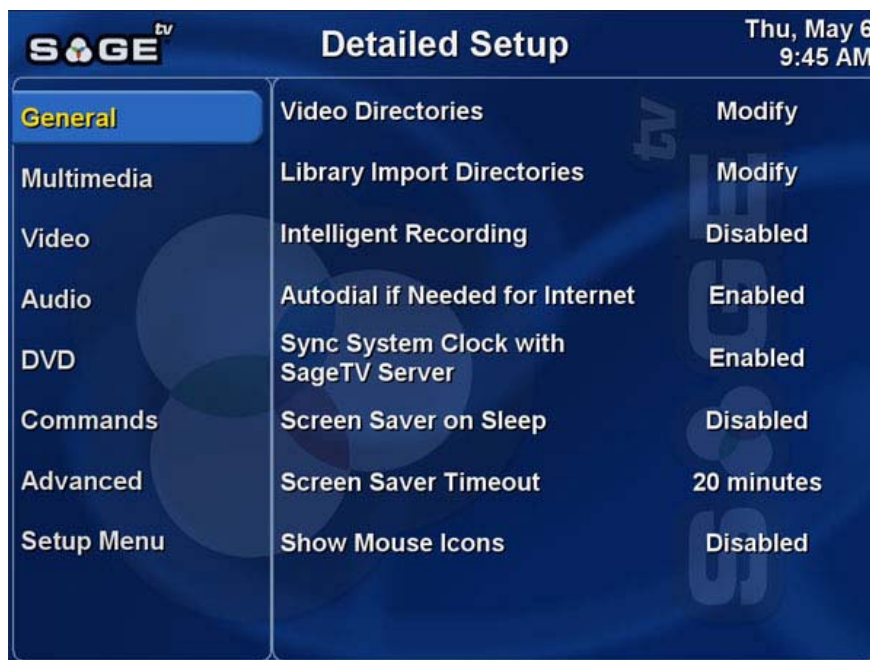
Here you can configure your Video Directories, Video Diskspace and Other General Settings:

Video Directories:
You can add and remove video directories from your hard drive to SageTV. By default SageTV adds a
folder within the SageTV directory for Video storage. SageTV supports the use of multiple folders on
multiple drives as well as using mapped drives or UNC paths across a network.

By selecting Modify you can edit the Diskspace settings of any current Video Directory. If you choose to add a new directory you'll be presented with the following options:

SageTV was designed to be an everyday use application. With that in mind we give you full control over disk space allocation so that you can re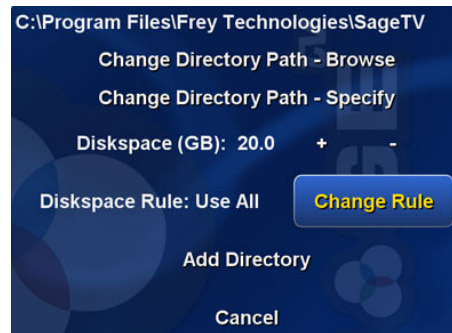cord video around the clock without running out of room on your hard drive. Video Diskspace usage is managed by folders or drives and telling SageTV whether or not you want to "Use Only" a specified amount of space measured in Gigabytes (GB), "Leave Free" a specified amount of space or "Use All" space within a drive.

Library Import Directories:
To access media files already stored on your PC such as Videos, MP3s, and Photos you need to specify these folders for SageTV. By default SageTV adds a folder within the SageTV directory for Import storage. If you would like to specify a different directory or add a new one, select "Modify" and then "Browse" for new directories or "Specify" a new one. SageTV supports the use of multiple folders on multiple drives as well as using mapped drives across a network. You can also remove a previously selected directory by selecting the path.

Enable Intelligent Recording: 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. This is an extremely powerful feature that many of our users take advantage of but we set to "Disabled" by default because 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 giving 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 diskspace that's left against your Favorites and Manual Recordings and will not delete any of those recordings to make room for Intelligent Recordings.

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.

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.

Screen Saver on Sleep:
SageTV has a built in Screen Saver that will initiate when you put SageTV to "Sleep". Placing SageTV in "Sleep Mode" allows it to continue recording your programs while running in the system tray. Enable this option if you want the Screen Saver to kick on upon going into Sleep Mode.

Screen Saver Timeout:
If you enable this option, the Screen Saver will launch based on the "Timeout" setting specified. This setting is used most in case you walk away from the application and don't want to be concerned with any screen burn.

Show Mouse Icons:
This setting comes enabled by default to show you all available mouse control icons spread throughout the application. If you are not going to use a mouse to control SageTV you can disable these Icons here.

Multimedia Settings
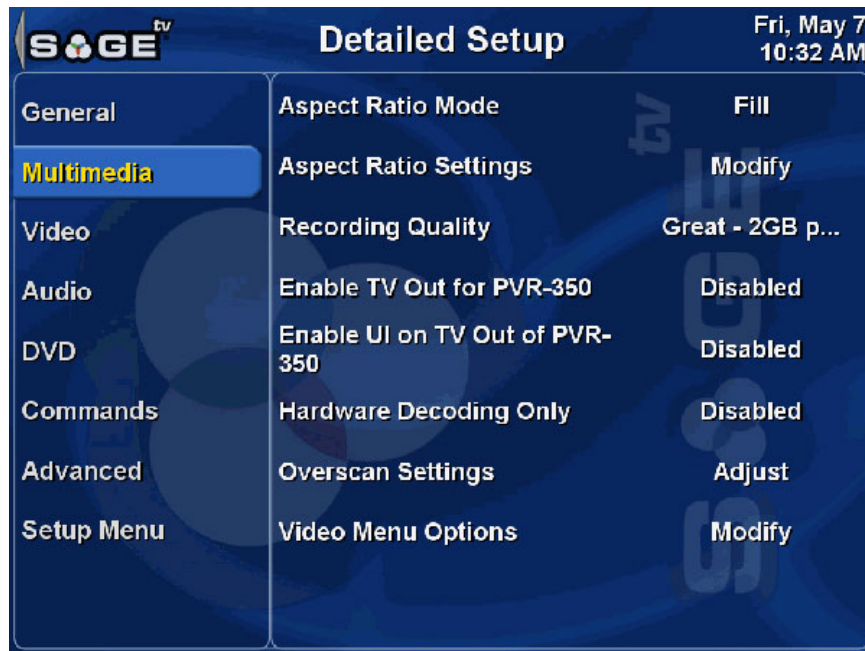
Aspect Ratio Mode:
Here you can select the aspect ratio mode for Video playback. You can choose to Fill the screen, Force 4x3, Force 16x9 or Use Source. The default setting is to Fill the screen.

Aspect Ratio Settings:
By selecting "Modify" you will be presented with the available adjustments for the selected Aspect Ratio Mode:

Here you can adjust the percentage at which the video is zoomed during playback. The default setting is 107 because it allows for overscan to the television set so you have no black borders on the video during playback. You can modify these settings to "Stretch" or "Offset" a particular program during playback. This is especially useful when used with the Aspect Ratio settings to remove "Window Boxing".

Recording Quality:
Specify the default Recording Quality for all your recordings through SageTV. You will have the option to adjust this setting for individual programs if you wish through the Favorites Manager or when setting Manual Recordings within the program description. This choice is a matter of personal preference and amount of hard drive space available. If you want to customize these settings go to the Configuration section of our website at www.sage.tv/configuration.html. **Any change to the default Recording Quality will not take effect until a new recording starts.**

Enable TV Out for PVR-350:
Enable 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:
Enable if you are using the TV Out of the PVR-350 to view the SageTV User Interface. 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 hit "Ctrl-V" or use the "TV" command on your remote.

Hardware Decoding Only:
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:
This allows you to modify the Overscan settings of the SageTV User Interface. By selecting "Adjust" you will be presented with options to adjust the Top Left corner of the UI and then the Bottom Right corner.

Video Menu Options:
Select "Modify" to set the following options:
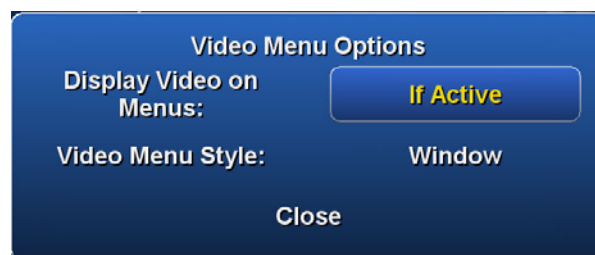
- Display Video on Menus: This determines when video will be displayed on menus where it's available. The choices are "Never", to completely disable all video on menus; "If Active", to only display video if a video file is active; and "Always", which will always force video to be displayed.
- Video Menu Style: This determines how the video is displayed based on "Window" mode with a Preview Window or "Background" where video is used as the background image.

Window Mode   Background Mode

Video Settings
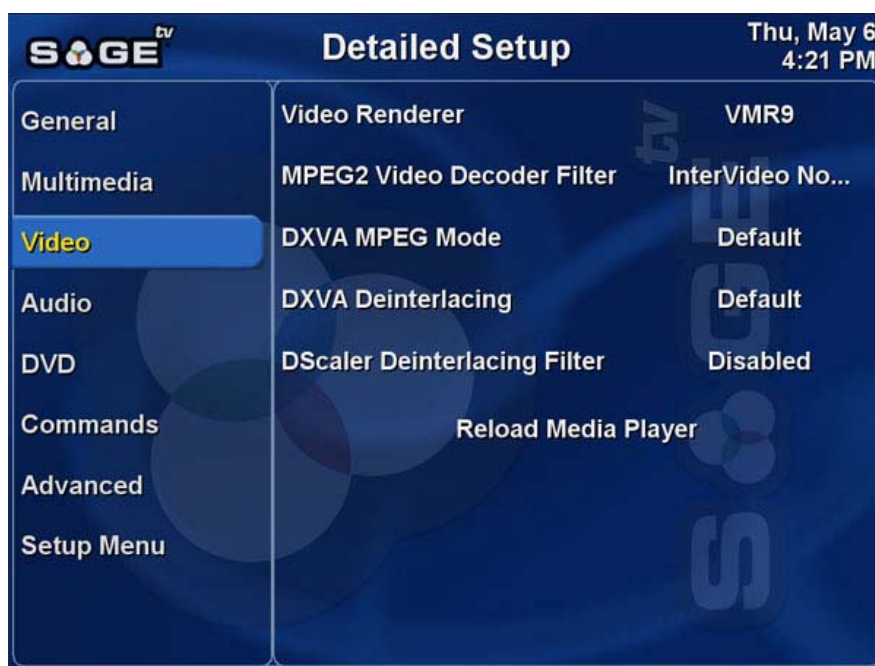
If any changes are made to the Video settings while Video is playing, select "Reload Media Player" for the settings to take effect.

Video Renderer:
The Video Renderer is the filter used to render the video from the source. Your choices are Default, Overlay or VMR. Use the Default setting unless you are experiencing problems; then choose the Overlay setting. If you are running a newer Graphics card with 3D acceleration, give VMR a try, which will also provide transparency to the On-Screen Display over video. Using VMR requires 3D acceleration to be enabled. To enable 3D acceleration go to the Advanced Setup section.

MPEG2 Video Decoder Filter:
Select the Video Decoder that you would like SageTV to use for playing back MPEG-2 video. These options are related to the MPEG-2 decoders that are installed on your PC related to your video card, DVD player and TV tuner/Capture card.

If you are using the Xcard as your video decoder select it from the list and set the Rendering Filter to default. Also confirm that the Audio Decoder and Renderer are set to default as well.

DXVA MPEG Mode & Deinterlacing:
Here you can modify the MPEG settings as they relate to Video Acceleration. Choose a MPEG mode and then specify whether or not you want to use a specific Deinterlacing mode. 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, select this option here. You can only select this option when selecting the Elecard Video Decoder filter (not included with the SageTV installation but freely available at www.moonlight.co.il). 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/.
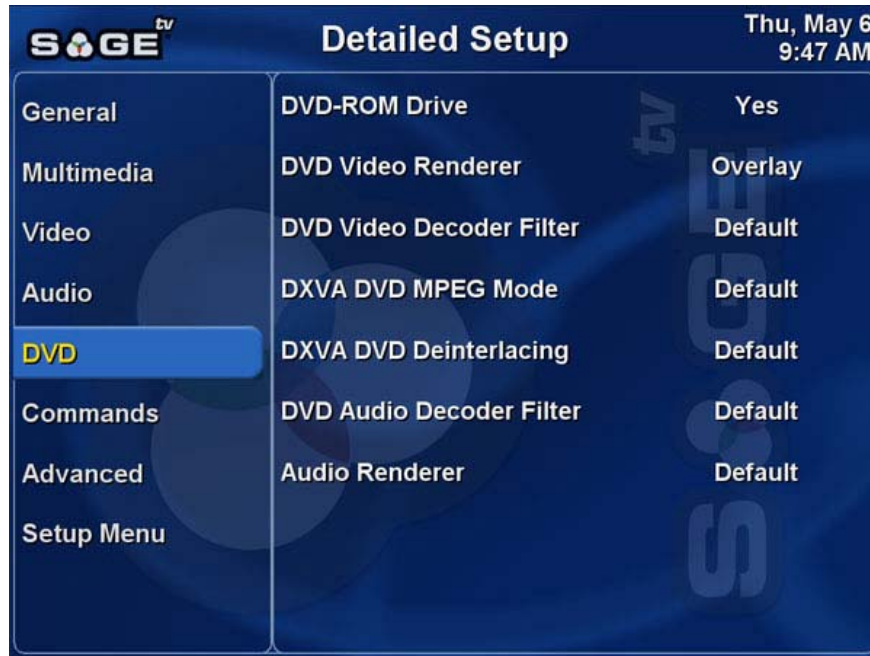
Audio Settings

Here you can select what Audio Decoder you want to use along with a specific Audio Renderer. If you are experiencing Audio Playback Delay problems, you can adjust the Playback Delay in milliseconds.

DVD Settings

DVD-ROM Drive:
Specify whether or not you have a DVD-ROM drive installed and you want SageTV to access it for playback of local DVDs.

DVD Video Renderer:
Specify the rendering method to use for DVD playback. To use VMR you also have to enable 3D acceleration under Advanced Setup.

DVD Video Decoder Filter:
Specify the Video Decoder filter to use for DVD playback.

DXVA DVD MPEG Mode:
Specify the MPEG Mode for DVD playback as they relate to Video Acceleration. Leave this setting at default unless you are experiencing problems with Video Acceleration.

DXVA DVD Deinterlacing:
Specify whether or not you want to use a specific Deinterlacing mode during DVD Playback. Leave this setting at default unless you are experiencing problems with Video Deinterlacing.

DVD Audio Decoder Filter:
Specify the Audio Decoder Filter to use for DVD playback.

Audio Renderer:
Specify the Audio Renderer to use for DVD playback.

Commands Settings
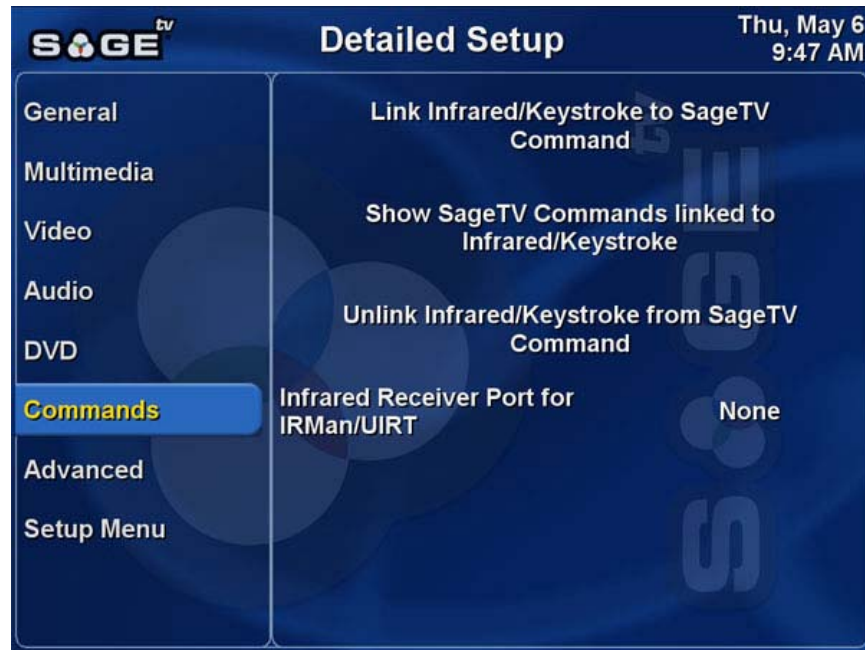
Link Infrared/Keystroke to SageTV Command:
Select which commands you want to link to new IR codes or Keystrokes and program the new command. If you are using a third party Infrared Receiver such as the IRMan or USB-UIRT, you will need to link every IR code to the commands in SageTV.

Show SageTV Commands linked to Infrared/Keystroke:
Press a remote control button or keystroke and the linked SageTV command will be displayed.

Unlink Infrared/Keystroke from SageTV Command:
Here you can select commands to Unlink for SageTV. You will be prompted to remove each command so they are not removed in error.

Infrared Receiver Port for IRMan/UIRT:
If you are using an IRMan or USB/UIRT Receiver, enable it here.

Advanced Settings

SageTV Server:
If you will be using the SageTV Client application on another PC, please enable the server here.

Load at Windows Startup:
Select if you want to startup SageTV upon powering on your PC and in what mode you want it loaded.
Default setting is to Load SageTV at startup in your Taskbar (System Tray).

Major-Minor Channels for DTV Tuning:
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:
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.

3D Acceleration:
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.

Overlay Color Keying:
Enable Color Keying when using Overlay Mode to receive transparency with the On-Screen Display.

Troubleshooting

Please see our online Troubleshooting guide for any questions or problems you are having with the setup and use of SageTV. This guide is available at www.sage.tv/troubleshooting.html. If the Troubleshooting guide does not solve your problem, you can post your issue in our discussion forum at forums.sage.tv/forums/ to get immediate help from other current customers. If your issue still remains unanswered, submit a support request at www.sage.tv/request.html and we will reply within 72 hours.

SageTV Preconfigured Hauppauge Remote Control Commands

Puts SageTV in Sleep Mode to continue recording

Takes you to currently playing media

Don't Like

Select

Volume Down or Navigate Left

Channel Down or Navigate Down

Options

Mute

Information

Skip Back or Page Left

Record

Time Scroll - Press then use Skip Forward or Skip Back to Jump in 2 1/2 Minute increments, press again to play from specified point

Page Down

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 Up

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.

SageTV Preconfigured Streamzap Remote Control Commands

Can be linked to System Shut down or Standby

PC System Mute

Channel Up

Use KeyPad for Channel Entry in Live TV

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.