# SPECTRA 2500 User's Manual

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# **SPECTRA Information**

### To show the SPECTRA Information:

- 1. In Bring up the Control Panel's Display Properties window.
- 2. 3. Click on the **Settings** tab and then click on the **Advanced** ... button.
- Click on the **SPECTRA Information** tab.

Canopus SPE	CTRA 2500 Properti	es	? >
General Colo	Adapter	Monitor SPECT	Performance TRA Information
Card Infor	mation		
	Card Name:	SPECTRA 2	2500
- 🤣	Graphic Chip:	RIVA TNT	
	Graphic Memory:	16 MB RAM	
Software In	nformation Windows Driver Versior	n: 4.12.01.036	2-4.03.01
~	BIOS Version:	1.06.03	
- Technical	Support	us.co.jp	Settings Advanced User's Manual
		DK Ca	ancel Apply

#### **Card Information**

Show the display card information.

### Software Information

Show the driver and BIOS version.

# **Technical Support**

Show the technical support information.

# Set your desktop resolution

### To set the resolution of your desktop:

- Bring up the Control Panel's Display Properties window. 1.
- 2. 3.
- Click on the **Settings** tab. Under "Screen area," drag the slider to the desired resolution:

- Screen area	
Less	More
1024 by 768 pixels	

Click OK or Apply. 4.

- Click on the Screen Control II icon II icon in the taskbar.
   Click on the resolution (and color depth) you want.

# Set your desktop color depth

# To set the color depth of your desktop:

- Bring up the Control Panel's Display Properties window. 1.
- Click on the Settings tab. 2.
- 3. Under "Colors" select the desired color depth:

Г	Colors
	True Color (32 bit)
	256 Colors
	High Color (16 bit)
	True Color (32 bit)

Click OK or Apply. 4.

- Click on the Screen Control II icon II icon in the taskbar.
   Click on the color depth (and resolution) you want.

# Set the refresh rate of your monitor

### To set the refresh rate of your monitor:

- 1. Sing up the Control Panel's Display Properties window.
- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Setting...** button and then click on the **Desktop** tab.
- 5. Under "Refresh Rate" drag the list box to the desired refresh rate:

🛞 Adapter Control [ SPECTRA 2500 ]		
Desktop Gamma Overlay Cursor TV	Out	
	Screen Position	
1024 x 768 High Color (16 bit)		
Refresh Rate		
Adapter default		
	-Screen Extent	
	<u>D</u> efault	
	OK Cancel Apply	

6. Click OK or Apply.

- 1. Click on the Screen Control II icon 💻 in the taskbar.
- 2. Click on the refresh rate you want.

# Set the screen position of your monitor

### To set the screen position of your monitor:

- 1. Is Bring up the Control Panel's Display Properties window.
- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Setting...** button and then click on the **Desktop** tab.
- 5. Click the left, right, up or down arrow buttons in the Screen Position/Refresh box to shift your screen. Each click of a button shifts the screen in the indicated direction. You can click on the center
- button lot reset the screen to its original position.
- 6. Click **OK** or **<u>Apply</u>**.

C Screen Position			
	▲		
•		▶	
	▼		
-Screen Extent-			
••••••		\$	X

#### Note:

You cannot use SPECTRA display utilities to adjust your monitor's screen position while TV-out is enabled.

# Set the gamma of your display

### To set the gamma of your display:

- 1. Is Bring up the Control Panel's Display Properties window.
- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Setting** button and then click on the **Gamma** tab.

5. Move the top slider, marked **Gamma, Brightness and Contrast**, to the left or right to achieve the desired level.

6. Click **OK** or <u>Apply</u>.

🕲 Adapter	Control [ SPECTRA 2	2500 ]		? ×
Desktop	Gamma Overlay Curso	or TV Out		
		Mode Color © <u>B</u> ed ☑ Link All	C Grgen C	▼ ) <u>B</u> lue
		<u>G</u> amma Br <u>i</u> ghtness		
⊻iew	Graph	<u> </u>	1.0	00   Default
		OK	Cancel	Apply

- 7. To save this new setting for later use, select **Save** and type a file name for the new setting.
- 8. To use a previously saved setting, select **Load** and the file name for that setting.
- 9. To reset to the standard setting, select **Default**.
- 10. Click **OK** or **<u>Apply</u>**.

### You can also set the gamma of the red, green, or blue hues in your display separately:

1. Remove the check from Link All Color in the Color section. Then you can select the color Red, Green and Blue individually. Select the color that you want to adjust.

Color		
• <u>R</u> ed	O Gr <u>e</u> en	◯ <u>B</u> lue
🔲 Link All	Color	

- 2. Move the top slider, marked **Gamma, Brightness and Contrast**, to the left or right to achieve the desired level.
- 3. Click OK or <u>Apply</u>.

### To change the image for adjust window:

- 1. Select the View from the List box.
- 2. You can select Graph, Color Bar and Custom.
- 3. You can use your original image for Gamma control. Select Custom, right click on the Adjust window, and select File from the menu. Then the File Select window will open. If the image is larger than 224 x 192, you can drag the image by using your mouse.

# Set your overlay color

MMX 275MHz or higher CPU required. If your CPU is lower than MMX 275MHz, this options does not appear.

### To set the overlay color of your display:

- 1. Is Bring up the Control Panel's Display Properties window.
- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Setting** button and then click on the **Overlay** tab.

5. Move the top slider, marked **Brightness, Contrast**, **Hue and Saturation**, to the left or right to achieve the desired level.

6. Click **OK** or <u>Apply</u>.

🛞 Adapter Control [ SPECTRA 2500 ]		
Desktop Gamma Overlay Cursor	TV Out	
	Brightness Contrast Hue Saturation	0 100 0 100 100 100 100 Default
	OK	Cancel <u>A</u> pply

The Test image will not display when the other application is using the overlay. Color control will apply real-time to the overlay window. If resolution or refresh rate is set to a noncapable overlay mode, the test image will not display.

# Set your cursor color

### To set the color of your display:

- Bring up the Control Panel's Display Properties window. 1.
- Click on the **Settings** tab and then click on the **Advanced** ... button. 2.
- Click on the **SPECTRA Information** tab. 3.
- 4. Click on the **Setting** button and then click on the **Cursor** tab.
- 5.
- Move the sliders on the left hand side of the Cursor Color box to adjust the cursor body color. Move the sliders on the right hand side of the Cursor Color box to adjust the cursor outline color. 6.

- Color	Outline
■ J ■	
■ ] □	
■	

7. Click OK or Apply.

# **Displaying on your TV**

### Turning on TV output:

- 1. Is Bring up the Control Panel's Display Properties window.
- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Setting** button and then click on the **TV Out** tab.
- 5. Select the desired options in the TV Output section

Adapter Control [ SPECTRA 250	10 ] · · · · · · · · · · · · · · · · · ·
Desktop Gamma Overlay Cursor	TV Out
TV Out © <u>O</u> n © O <u>ff</u> TV Format © <u>N</u> TSC © <u>B</u> AL	Quality  Under Scan
Screen Position	<ul> <li>Flicker Free</li> <li> <u>Brightness</u> </li> </ul>
< ■ ►	
	Cancel Apply

- You will then be asked if you want to change your desktop to a TV compatible mode. Click **OK.** Your desktop resolution will be reset to 640x480x60 Hz (50 Hz if you select PAL mode). 800x600 and 960x720 are also supported.
- 7. Click **OK** or <u>Apply</u>.

### Adjusting the screen position on your TV:

1. Click the left, right, up or down arrow buttons in the Screen Position box to shift your screen. Each

click of a button shifts the screen in the indicated direction. You can click on the center button to reset the screen to its original position.

2. Click OK or <u>Apply</u>.

Note: You cannot adjust the screen position of your monitor while TV-out is enabled.

#### **TV Format**

Set the TV output format.

# Quality

### Under Scan

Under Scan Mode fits the desktop into the TV viewable display area.

### Flicker Free

Flicker Free Mode helps to make screen easier to view by reducing flicker when displaying the Windows desktop on your TV.

High Contrast Enable High Contrast.

# Brightness

Control the brightness.

# Using the WitchDoctor

The SPECTRA 2500's WitchDoctor functionality provides the following features:

#### **Reverse Pass-through**

The Reverse Pass-through feature provides the best image quality when displaying your desktop in a high resolution mode and using a secondary 3Dfx card for gaming. It accomplishes this by connecting both the monitor and the output of the 3Dfx card to the SPECTRA card. By connecting the cards in this manner the signal degredation of a high resolution mode on the primary display card will not occur. This functionality is accomplished in hardware and no software drivers need to be installed. Please refer to the Installation Guide on how to connect the cables.

### TV-out from your 3Dfx card

The TV-out capability on the SPECTRA card can also be used to display 3Dfx games on the TV. This functionality is accomplished in hardware and software thus requiring the WitchDoctor drivers to be installed.

### To install the WitchDoctor drivers:

- 1. Remove the Pure3D drivers (if they are present) before installing the WitchDoctor drivers.
- 2. Run the WitchDoctor Setup program located on the SPECTRA Drivers and Utilites CD.

# Loading / Unloading Screen Control II

The Screen Control II installs automatically in the tray bar of the start menu.



To unload the Screen Control II utility click on the Screen Control II icon in the tray bar to activate its menu and select Exit.

To have Screen Control II not automatically load each time Windows runs bring up the Screen Control II dialog window and uncheck the option "Load Screen control II when starting Windows".

Settings >
General HotKeys
Auto Load Settings
Load Screen Control II when starting Windows
☑ Load User's Manual when starting Windows
Compatibility
Some programs operate improperly if you do not restart your computer after you change color settings.
$\bigcirc$ <u>R</u> estert the computer before applying the new color settings.
C Applay the new color settings without resterting.
Ask me before spplaying the new color settings.
OK Cancel Apply

# **Setting the Options**

- 1. Click on the Screen Control II icon 💻 in the taskbar.
- 2. Click on the **Settings** menu.
- 3. Select the desired options in the Auto Load Setting and Compatibility section
- 4. Click **OK** or <u>Apply</u>.

Settings X
General HotKeys
Auto Load Settings
Load Screen Control II when starting Windows
Load User's Manual when starting Windows
Compatibility
Some programs operate improperly if you do not restart your computer after you change color settings.
<u>     R</u> estert the computer before applying the new color settings.
C Applay the new color settings without resterting.
• Ask <u>me</u> before spplaying the new color settings.
OK Cancel Apply

#### Auto Load Settings:

#### Load Screen Control II when starting Windows.

To have Screen Control II automatically load each time Windows runs bring up the Screen Control II and check the option "Load Screen control II when starting Windows". Uncheck the option to not automatically load.

#### Load User's Manual when starting Windows.

To have Screen Control II automatically load each time Windows runs bring up the User's Manual and check the option "Load User's Manual when starting Windows". Uncheck the option to not automatically load.

### Compatibility:

Set the color change mode in Screen Control II.

# **Assigning Hotkeys**

Hotkeys are assigned in the Screen Control II. By default only the Increase and Decrease Gamma Values are available in the Hotkey list. Click on the Advanced List check box to see all of the functions available.

Settings			X
General HotKeys			
			_
Increase Gamma Value Decrease Gamma Value Reset Gamma Value Increase Red Gamma Value Decrease Red Gamma Value Increase Green Gamma Value Decrease Blue Gamma Value Decrease Blue Gamma Value	Shift+Num * Shift+Num / Ctrl+Num - <not assigned=""> <not assigned=""> <not assigned=""> <not assigned=""> <not assigned=""> <not assigned=""></not></not></not></not></not></not>		
Key Assign: □ Alِt □ <u>C</u> trl ☑ <u>S</u> hift N	um *	Assign	
C Options			-
☑ Beep when out of range			
Save changes permanently			
	OK Canc	el <u>A</u>	pply

# **Setting Your Desktop Resolution and Color Depth**

# To set the resolution and color depth of your desktop:

- 1. Click on the Screen Control II icon 🖳 in the taskbar.
- 2. Click on the resolution and refresh rate you want.

- 1.
- Bring up the Control Panel's Display Properties window. Click on the **Settings** tab and then click on the **Advanced** ... button. 2.
- 3. Click on the SPECTRA Information tab.
- Click on the Setting button and then click on the Desktop tab. 4.
- In the Resolution section select the desktop size from the list box. 5.
- In the Refresh rate section select the rate from the list box. 6.
- 7. Click OK or <u>Apply</u>.

# Setting the Refresh Rate for Your Monitor

# To set the vertical refresh rate of your monitor:

- 1. Click on the Screen Control II icon 📃 in the taskbar.
- 2. Click on the refresh rate you want. When you select the Custom, <u>Custom Refresh Rate</u> dialog will appear.
- 3. The Refresh rate will change automatically. If the monitor can display correctly, click the **Yes** button to apply the setting.

# Setting the Custom Refresh Rate for Your Monitor

### Important Information:

You can set custom refresh rates and adjust the screen width by using the Custom Timings control. Please note there is a possibility to damage your Monitor if you use this control and set the timings to beyond the monitors capability. Only experienced users should use this control and do so at their own risk.

**Note:** The Custom timing is available when you specify Custom setting in Screen Control II and SPECTRA Information tab.

#### To set the vertical custom refresh rate of your monitor:

- 1. Sing up the Control Panel's Display Properties window.
- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Setting** button and then click on the **Desktop** tab.
- 5. In the Refresh rate section select the custom rate from the list box.
- 6. Move the top slider, **Refresh Rate**, to the left or right to achieve the desired level.
- 7. Click **OK** or **Apply**.

Refresh Rate
Custom (60Hz)
60 Hz
You can restore the screen by hitting Ctrl+Alt+BackSpace if the monitor looses sync.

#### Refresh Rate:

You can select a custom refresh rate by moving the slider control. There is the possibility of selecting a refresh rate to high for your monitor and you may damage it.

Note:

If the screen looses sync and goes blank you can restore the previous setting by hitting Alt-D.

# How the Adapter Control works

🍪 Adapter Control [ SPECTRA 2500 ]	? ×
Desktop Gamma Overlay Cursor TV	Out
Resolution	Screen Position
1024 x 768 High Color (16 bit) 💌	
Refresh Rate	
Adapter default	
	Screen Extent
	♦ ⋈ ■ ♦ x
	<u>D</u> efault
 [***	OK Cancel Apply
	OK Cancel <u>A</u> pply

### Desktop

The Desktop tab allows you to set the resolution, color, refresh rate and Screen Position.

### Gamma

The Gamma tab allows you to adjust the **<u>Gamma</u>** setting.

### Overlay

The Overlay tab is allows you to adjust the **Overlay** color setting.

# Cursor

The Cursor tab allows you to set the **Cursor Color**.

### **TV Out**

The TV Out tab allows you to set the **<u>TV Out</u>**.

# How the Refresh Control II works

Refresh Control II is a Windows utility to set the refresh rate for all resolutions in each color mode at one time.

### Loading Refresh Control II:

Select the Refresh Control II from the Screen Control II.

### Caution!!!

Do not set the refresh rate above your monitor's specifications. This may damage your monitor.

🇱 Refresh Control II				×
- Monitor Information				
Monitor Type :	Generic 150kHz Monitor	Possible Refresh Rate :	Horizontal	31.0-150.0 kHz
Max Resolution :	2048x1536		Vertical	50.0-200.0 Hz
Display Card Information –				
Display Card Name :	SPECTRA 2500	Current Mo	ode	
Sotup Display Model:	Standard O Direct Dra	<ul> <li>1280:</li> <li>11240:</li> </ul>		
Setup Display Mode .	Standard O Direct Dra	aw Uniy 🔺 High	Color 75Hz	
● 960x720 ● 1	024x768 🔍 🔹 1152x864 📔 🖷	1280x960 • 1280x1	1024 🔵	1408-
Default	Optimal 60 72 75 85	90 100 120		Custom
256 Color 🧧				6 <u>5H</u> z
High Color 🏼 📍				Undefined
				ondenned
True Color 📃 💻		•		Undefined
<ul> <li>Overlay available</li> </ul>	e 🔹 🔍 Overlay not available	Current Setting		<u>D</u> efault
		OK	Cancel	

# Set your refresh rate

### To set the vertical refresh rate of your monitor:

- 1. Open the Refresh Control II window from Screen Control II.
- 2. Select the Standard or Direct Draw Only depending on which mode you want to change.
- 3. Select the resolution.
- 4. Select the refresh rate.
- 5. The Testing dialog box will appear. Click **OK** button to proceed.
- 6. The Test image will show on your monitor. Push any key or click mouse left button to return. It will automatically return after 10 seconds.
- 7. Click **Yes** button to enable the new setting.
- 8. Click **OK** or <u>Apply</u>.

🗰 Refresh Control II	×
- Monitor Information	
Monitor Type : Generic 150kHz Monitor Possible Refresh Rate : Horiz	ontal 31.0-150.0 kHz
Max Resolution : 2048x1536 Vertic	al 50.0-200.0 Hz
Display Card Information	
Display Card Name : SPECTRA 2500 Current Mode	
<ul> <li>1280x1024</li> </ul>	
Setup Display Mode : 💿 Standard 🔘 Direct Draw Only 🗾 🔺 High Color 1	75Hz
• 960x720 • 1024x768 • 1152x864 • 1280x960 • 1280x1024	● 1408× <b>●</b>
Default Optimal 60 72 75 85 90 100 120	Custom
256 Color • • • • • •	6 <mark>5H</mark> z
High Color 📮 📄 📮 📮 💻 💻	Undefined
True Color	Undefined
📍 Overlay available 🔹 Overlay not available 🛛 🧮 Current Setting	<u>D</u> efault
Cance	el <u>A</u> pply

### Button

•

•

Overlay available. Red light turn on.

Overlay unavailable. Red light turn off.

Current setting.

Over the maximum refresh rate of your monitor.

Frequency Undefined. Defined button will display the refresh rate.

### Default and Optimal buttons:

When selecting the Default or Optimal button, all settings of resolution/color will be set to the Default

or Optimal state except the mode where you set the refresh rate directly.

# How the SnapShot works

Snap Shot is a Windows utility which captures screen or window images and automatically saves them to a file. It works in a multi-monitor environment and supports DirectDraw and Direct3D as well as secondary 3D graphics card screen captures.

Images are captured by hitting a hot key combination. These hot keys are defined in the Snap Shot Settings window. The Settings window can be accessed from the Snap Shot icon an the Windows Task Bar tray.

6	5:53 PM

The saved image captures are stored in a file with an automatic numbering sequence. The file naming and the location of where the images are saved can be changed in the Settings window.

📷 Canopus SnapShot	? ×
Save Options         Save Folder         C:\Program Files\Canopus\Sna         Browse         Save File Name:         snap         Image:         Starting Sequence Number:         0000         Image:         Starting Sequence Number:         0000         Image:         Starting Sequence Number:         0000         Image:         Show the message when the drive is full	Hot Keys Eull Screen: Ctrl + Shift + F Active Ctrl + Shift + W Multi-Monitor Capture Mode Active monitor with cursor All monitors
Load Option	OK Cancel

# **Understanding the Media Scope Controls**



Power: Exit Media Scope.

- Drive: Select the CD-ROM drive to use for Video CD playback.
- Media: Select what media to play. You can select from <u>File</u>, <u>Video CD</u>, <u>Audio CD</u>, or Live Video.
- **Eject:** When playing a CD, ejects the CD on drives that support it. When playing a file, closes the display window and brings up an Open File dialog box.
- Icon: Minimize Media Scope to an icon.



- **Play:** Open the playback window and begin playback. You can control playback by using the slide bar and controls at the bottom of the display window, or by using the controls on the remote.
- Pause: Pause playback; click again to resume.
- Stop: Stop playback.



- **Prev:** When playing back a video or audio CD, go to the previous track. When playing back a file, go to beginning of the file and pause.
- **Next:** When playing back a video or an audio CD, go to the next track. When playing back a file, go to end of the file and pause.
- **Return:** For controlling playback of Video CD 2.0 titles.
- **Rec:** Capture live video to disk.

# Rew FF Back FW

- **Rew:** Rewind while the button is held down.
- **FF:** Fast forward while the button is held down.
- Back: Go back one frame while playback is paused. (Works when playing back AVI files.)
- **FW:** Advance one frame while playback is paused. (Works when playing back AVI files.)

Size Save Option

Size: Select display size (<u>1</u>x, <u>2</u>x, <u>3</u>x, <u>Maximize</u>, <u>Full Screen</u>). Unavailable sizes are displayed in gray.

**NoteF** When playing in **Full Screen**, double-click on the video to return to the display window.

- **Save:** Capture the currently displayed frame and save it as an image file. Use the OPTION button to select how the image will be saved.
- **Option:** Set preferences for Media Scope.



- Volume: Adjust playback volume: + increases volume,- decreases volume.
- Speed: Adjust playback speed:+ increases speed,- decreases speed.(Works only with AVI files.)
- **Repeat:** Play back file or track in a loop.
- Mute: Stop sound output. Click again to resume.



- **Keypad:** Specify track number (or file order) for playback.
- Shuffle: Play back tracks (or files) in random order.
- **Program:** Play back tracks (or files) in the order specified with the **Edit** button.

Edit: Select tracks (or files) to play back as a <u>**Program**</u> Change the size of the Media Scope control.



Change the size of the Media Scope control.

# **Capturing Video with Media Scope**

To capture video with Media Scope:

### Note: The Video Port 600 is required for this feature.

- 1. Connect your composite or S-Video source to "V IN" on the back of your SPECTRA Series card.
- 2. Click the MEDIA button at the top of the remote, and select Live Video



3. This will modify the remote, bringing up the capture buttons:



- 4. Click SOURCE to select between composite and S-Video input.
- 5. Click VIDEO to set capture settings (frame size, capture mode).
- 6. Click **AUDIO** to set audio capture setting (Media Scope uses the audio-in from your sound card to capture audio).
- 7. Click the Record button near the top of the remote. A dialog box will appear to set the capture parameters, including frame rate, capture time, file name, etc.
- 8. Click **OK** to begin capture.

# **Playing MPEG and AVI Files**

Media

# To play MPEG or AVI files

- Selector at the top of the remote and set it to **File**. 1. Click on the Media
- 2. 3.
- Click on the **Play** button **to bring up an Open File dialog box**. Locate the file, and click **Open** to bring up a display window and begin playing.

# **Playing Video and Audio CD**

### To play Video or Audio CD

- 1. Insert the CD into the CD-ROM drive. If you have multiple CD-ROM drives, use the Drive button to select a CD-ROM drive.
- Click on the Media selector at the top of the remote and set it to <u>Video CD</u> or <u>Audio CD</u>.

3.

Click on **Play** to load the CD, and begin playback from the first track. You can now use the keypad to select a track to play, or use the **<u>EDIT</u>** command to create a pre-4. programmed play list.

# **Creating a Program List**

### To create a Video and Audio CD program list

1. Begin playing a Video or Audio CD. Or, select a directory containing Video or Audio CD files by playing one of those files.

		ОК
Track	Title	Cancel
Al 1	Video CD Track 1	
2 🖓	Video CD Track 2	
🚰 З 👘	Video CD Track 3	
og 4	Video CD Track 4	
🚰 5 –	Video CD Track 5	<b>T</b>
lay List:		Select
Track	Title	Delete
		Select <u>A</u> ll

- 2. From the <u>Title List</u>, click on each track (or file) you want to play, and then click on the <u>Select</u> button. The selected tracks will be saved in the <u>Play List</u>.
- 3. When finished selecting titles, click **OK**.

# To create a MPEG and AVI File program list

1. Begin playing a MPEG or AVI Files. Or, select a directory containing MPEG or AVI files by playing one of those files.

Cancel			
<u>Select</u>	 		
Delete	 	_	

- From the <u>Title List</u>, click on each track (or file) you want to play, and then click on the <u>Select</u> button. The selected tracks will be saved in the <u>Play List</u>.
   When finished selecting titles, click OK.

# **Setting Options for Media Scope**

You can set the following preferences with the **Options** button:

Option Parameters
Playback Capture Options
🗖 Karaoke Mode
Auto Close after Stop
Auto <u>R</u> ewind after Stop
Disable Time Display
Do not use DirectDraw
Mute <u>a</u> udio except
Set speed to default value
Cancel

### Karaoke Mode

Change audio to Karaoke during Karaoke Video CD playback.

### Auto Close after Stop

When playback ends, close the display window.

#### Auto Rewind after Stop

After playing back a file, automatically rewind to the beginning.

### **Disable Time Display**

Do not display the time elapsed during playback.

### Do not use DirectDraw

Do not use DirectDraw for draw images.

#### Mute audio except Live Video

Media Scope will mute Line In except Live Video.

#### Set speed to default value

Set the playback speed to default.

Option Par	ameters			×
Playback	Capture Option	IS		
	Display Mode –			
		OK.	C	ancel

# **Display Mode**

Change the display mode to Overlay or Preview in Live Video.

### Туре

Change the video capture mode to AVI or MPEG in Live Video.

**Note:** MPEG mode only can choice the following settings.

Video Format Color Format Video Size	YUYV 320 x 240, 352 x 240, 160 x 120
Audio Format Frequency Sampling Rate Channel	YUYV 320 x 240, 352 x 240, 160 x 120 Stereo

Option Parameters		X
Playback Capture Options		
Control Display C Remote Type Box Type Always on Top Flowing Title Disable Cursor On Fo	Save C Reglace file Save to specified <u>fi</u> le C Copy to Clip <u>b</u> oard Fixed <u>A</u> spect Ratio Disable <u>H</u> elp Display ull <u>S</u> creen	
Set volume to default value		
	Canc	el

#### **Control display**

Change the Media Scope controller type to Remote or Box.

#### Save

Select how to save images captured from AVI files.

#### Replace file

Once a file name has been specified, save the captured image without bringing up the Save File dialog box.

#### Save to specified file

Always bring up a Save File dialog box to select the file name and file format for the captured image.

#### Copy to Clipboard

Copy the captured image to the clipboard.

#### Always on the top

Show the Media Scope always on the top.

#### **Flowing title**

Display the title to Media Scope display while playing it. (E.g. Karaoke CD supporting title display.)

#### **Fixed Aspect Ratio**

Keep the horizontal and vertical size of playback to the same proportions as the source size.

**Note:** Depending on the size of the source image, some of the image may be cut off on the sides during full-screen playback. To display the entire image, leave this box unchecked.

#### **Disable Help Display**

Disable bubble help messages normally displayed as the cursor passes over each control button.

## Disable Cursor on Full Screen

During full screen display mode, do not display the cursor.

# Set volume to default value

Set the volume setting to default.

# **Capturing Pictures with V-Shot**

### V-Shot lets you capture first, process later:

Note: The Video Port 600 is required for this feature.

- 1. Connect a video source, like a camcorder or VCR, to the **composite** video-in connector (it's a yellow RCA jack) on the back of your SPECTRA.
- 2. V-Shot will then display this live video in the large preview window on the left.
- 3. Click the big red button to capture an image.



4. A thumbnail preview will appear in the small window on the right.



5. Continue capturing pictures, until you are ready to PROCESS.

# **Processing Pictures**

Once you have captured your pictures, it's time to process them:

1. Scroll through the thumbnail previews using the up/down arrow keys.



2. Once you have chosen a picture, pick a processing mode: fast moving scene, slow moving scene, still scene, or 1500x1125 resolution still scene:



- 3. You can also select a processed size (320x240, 640x480, or 750x562) using the Options menu. 640x480 is the default.
- 4. Click **Process** to process the captured data into a high quality still image. This will launch the <u>V-Shot</u> <u>Processor</u>.
- 5. You can reprocess an image with different processing mode and size settings.

# **V-Shot Processor**

Clicking Process launches the V-Shot Processor which turns the raw image data into a high quality still picture. You can then adjust the image attributes, save and print the picture.

### File Menu

# Save/Save As...:

Saves your picture in JPEG, TIFF, or BMP file format.

#### 

Saves your picture and sets it as your Windows desktop wallpaper, either centered on the screen or tiled across it. You can remove this setting by going to the Display Properties control panel, clicking on the Background tab, and selecting a different Wallpaper.



Outputs the picture to a printer.

#### **Print Preview:**

Shows a preview screen of how the picture will be layed out on the page when printed. Click on Zoom In/Zoom Out for a more detailed view.

### **Printer Setup:**

Selects a printer, the size of paper to be printed on, and the paper's orientation.

#### Exit:

Exits the V-Shot Processor.

#### Edit Menu

# Сору:

Copies the processed image to the Windows clipboard.

# Image Adjustment...: 🏙

Allows you to modify the image attributes of your picture, including contrast, brightness, and saturation.

Image Adjustment				×
	Brightness:	0		
	Contrast:	0		
	Hue:	0		
	Saturation:	0		
	Sharpness:	0		
	Red:	0		
	Green:	0		
	Blue:	0		
	_			
Set As Global	<u>D</u> efault	A	pply <u>C</u> lose	1

By clicking on <u>Set As Global</u>, your adjustment setting will be saved for future use. If you select <u>Auto</u> Adjust Image in the V-Shot Options menu, this adjustment setting will automatically be applied every time you process an image.

### <u>V</u>iew Menu

# Fit Window to Image:

If your desktop resolution is large enough, fits the window to display the entire image. Otherwise, maximizes the window.

#### Tool bar/Status bar:

Toggle display of the Tool bar and Status Bar.

# Managing Your "Film"

V-Shot allows you to load and save unprocessed pictures as "film" files (\*.flm file extension). Click on the **film** slider to Load and Save film:



Since these files can become very large, you should delete any unwanted pictures before saving your film. Use the delete button to do this:



# **V-Shot Options**

#### **Process Size**

Sets the size of the image to process: 320x240, 640x480, or 750x562. To process an image at 1500x1125, select the 1500x1125 large still scene mode on the front of the camera.

#### Self Timer

Useful for taking a picture of yourself with a video camera. Select 5, 10 or 30 seconds. When you click the capture button, V-Shot will wait that amount of time before capturing an image.

### **Enable Sound**

Toggles sound effects.

### **Always On Top**

Always keeps the V-Shot camera as the top window on your desktop.

#### **Process Immediately**

Processes a picture automatically after capture.

### **Disable Bubble Help**

Turns off the bubble help messages that are displayed as you move your cursor over an icon.

#### Auto Adjust Image

Automatically applies the global image adjustment setting when you process a picture. You can set this in the <u>V-Shot Processor</u>.

#### Prompt for Delete

Prompts you before deleting an image from your "film".

#### **Display Picture Number**

Displays a picture number in the thumbnail preview window.

# **Setting the General Options**

Moving the slider beyond "Conservative" mode will violate the card's specifications. The card may not function properly resulting in rendering errors, locking up, or possible damage to your system. Warranty will void once you choose "Yes" button at the end of this message, and Canopus will not make any compensation caused by it in any case.

## To set the General setting:

Adapter Control [ SPECTRA 2500 ]	?
Desktop   Gamma   Overlay   Cursor   TV	Out
Resolution	Screen Position
1024 x 768 High Color (16 bit)	
	◀ ■ ►
Refresh Rate	
Adapter default	•
	Screen Extent
	♦ ₩ ■ ♦ ¥
	<u>D</u> efault
	OK Cancel <u>A</u> pply

Panel's Display Properties window.

- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Advanced...** button and then click on the **General** tab.
- 5. In the System section use the Memory Setting slider control and AGP check box.
- 6. Click **OK** or <u>Apply</u>.

Advanced Options	x
D3D Performance OpenGL OpenGL II Boot Options General DirectX Compatibility	
System Conservative Aggressive Memory Setting:	
Disable <u>A</u> GP command DMA	
<u>D</u> efault	
OK Cancel	

#### System

# Memory Setting

Memory Setting slider control to change the setting in the range from "Conservative" to "Aggressive".

### Disable AGP command DMA

Use PCI for command DMA. Try this option if Direct3D or OpenGL application is not stable.

# Setting the DirectX Compatibility Options

To set the DirectX Compatibility setting:

👹 Adapter Control [ SPECTRA 2500 ]	? 🗙
Desktop Gamma Overlay Cursor TV C	Dut
Resolution	Screen Position
1024 x 768 High Color (16 bit)	
Refresh Rate	
Adapter default	· · · · · · · · · · · · · · · · · · ·
	Screen Extent
	Default
	OK Cancel Apply
	Bring up the C

- Panel's Display Properties window. Click on the **Settings** tab and then click on the **Advanced** ... button. 2.
- Click on the SPECTRA Information tab. 3.
- Click on the Advanced... button and then click on the DirectX Compatibility tab. 4.
- 5. In the Options section use the setting check box.
- Click **OK** or **Apply**. 6.

Advanced Options	? ×
D3D Performance OpenGL OpenGL II Boot Opti General DirectX Compatibility	ons
Options Enable Fog Table emulation	
<ul> <li>Adjust Z-buffer depth to rendering depth</li> <li>Use DirectX6 Compatibility Mode</li> </ul>	
Texel <u>A</u> lignment: Center UpperLeft Corner	
<ul> <li>Wait for <u>Palette Sync</u></li> <li>Do not filter stretched <u>bitmap image</u></li> </ul>	
<u>D</u> efault	
Canc	el

#### **Enable Fog Table emulation**

This option is provided for games which always expect table fog support.

### Adjust Z-Buffer depth to rendering depth

Forces the hardware to automatically adjust the depth of its Z-buffer to the depth that the application requests.

#### Use DirectX6 Compatibility Mode

Restricts hardware engine only Directx6.

### **Texel Alignment**

This option changes the hardware texture addressing scheme for texels (texture elements).

#### Wait for Palette Sync

Waiting for screen updates while application change the palette. If application is using palette and there are some troubles on the screen image, try this option.

### Do not filter stretched bitmap images

This option prevents pixel interpolation of stretched bitmap images.

# Setting the Direct3D Performance Options

To set the Direct3D Performance setting:

🛞 Adapter Control [ SPECTRA 2500 ]	? ×
Desktop Gamma Overlay Cursor TV	Out
Resolution 1024 x 768 High Color (16 bit)	Screen Position
Adapter default	Screen Extent
	<u>D</u> efault
	OK Cancel <u>Apply</u>

Bring up the Control

- Panel's Display Properties window.
- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Advanced...** button and then click on the **D3D Performance** tab.
- 5. In the Options section use the setting check box and list box.
- 6. Click **OK**.

1.

Advanced Options				? ×
General D3D Performance	) OpenGL	DirectX Co OpenGL II	mpatibility Boot Optio	ns
Options ▼ Wait for ⊻-S	ync			
Prerender limit		5	2	
PCI Texture Me	nory Size		<u>×</u>	
Mipmaps				
Mipmap d <u>e</u> tail le	vel			
Quality	<u>}</u>	· , Pe	erformance	
		L	<u>D</u> efault	
		OK.	Cance	!

### Wait for V-Sync

Waiting for V-Sync causes screen updates to synchronize to the vertical refresh. Disabling this option allows frame rates higher than the vertical refresh rate but visible rendering errors may occur. Buffer flipping must be enabled to use this option.

#### **Prerender limit**

This option allows you to limit the number of frames the CPU can prepare before they are processed by the graphics chip when vertical sync is disabled.

### **PCI Texture Memory Size**

This option sets the amount of system memory used for storing textures. It is not available on AGP based cards.

### Mipmaps

### Mipmap detail level

Mipmaps can be generated with the best quality or best performance or 3 intermediate settings.

# Setting the OpenGL Options

# To set the OpenGL setting:

🛞 Adapter Control [ SPECTRA 2500 ]	?×
Desktop Gamma Overlay Cursor TV	Out
Resolution 1024 x 768 High Color (16 bit)	Screen Position
Refresh Rate	Screen Extent
	♦ ⋈ 🔳 🗢 🛣
	<u>D</u> efault
	OK Cancel <u>Apply</u>

Bring up the Control

- Panel's Display Properties window. Click on the **Settings** tab and then click on the **Advanced** ... button. 2.
- Click on the SPECTRA Information tab. 3.
- Click on the Advanced... button and then click on the OpenGL tab. 4.
- 5. In the Options section use the setting check box.
- Click OK. 6.

1.

Advanced Options ?	×
General DirectX Compatibility D3D Performance OpenGL OpenGL II Boot Option:	s
Options Enable OpenGL <u>h</u> ardware acceleration Enable buffer region extension Allow the dual planes extension Use fast linear <u>m</u> ipmap	
<ul> <li>Enable Anisotropic <u>Filtering</u></li> <li>Enable Alternate depth <u>b</u>uffering technique</li> </ul>	
<u>D</u> efault	
(Cancel	

### Enable OpenGL hardware acceleration

OpenGL hardware acceleration will use the SPECTRA 2500 to improve the performance of OpenGL applications.

#### Enable buffer region extension

Allows the drivers to use the OpenGL extension **GL\_KTX\_buffer\_region**. This can increase application performance in 3D modeling applications that support this extension.

#### Allow the dual place extension

Allows the use of local video memory when the GL\_KTX\_buffer\_region extension is enabled. However, if there are less than 8 MB of local video memory available, dual planes extension support will not be enabled. This setting has no effect if the "Enable buffer region extension" option above is disabled.

#### Use fast linear mipmap

Allowing fast linear-mipmap-linear filtering will provide increased application performance at the expense of some image quality. In many cases, a loss of image quality may not be noticeable, so you may wish to take advantage of the extra performance gained by enabling this feature.

### Enable Anisotropic Filtering

Anisotropic filtering provides better texture image quality as the texture surface becomes more oblique to the eye point. It is disabled by default to comply with OpenGL conformance settings.

#### Enable Alternate depth buffering technique

Enables an alternate technique for depth buffering. This lets the hardware use a different mechanism for depth buffering in 16 bit applications. Enabling this setting can produce higher quality rendering of 3D images.

# Setting the OpenGL II Options

# To set the OpenGL II setting:

👹 Adapter Control [ SPECTRA 2500 ]	? ×
Desktop Gamma Overlay Cursor TV	Dut]
Resolution 1024 x 768 High Color (16 bit) 💌 Refresh Rate Adapter default	Screen Position
	Default           Default           OK           Cancel

Bring up the Control

- Panel's Display Properties window. Click on the **Settings** tab and then click on the **Advanced** ... button. 2.
- Click on the SPECTRA Information tab. 3.
- Click on the Advanced... button and then click on the OpenGL II tab. 4.
- 5. In the Options section use the setting list box.
- Click OK. 6.

1.

Advanced Options ?	X
General DirectX Compatibility D3D Performance OpenGL OpenGL II Boot Options	
Options	
Default <u>c</u> olor depth for textures: Use desktop color depth	
Buffer flipping:	
⊻ertical sync: Always off	
PCI Texture Memory Size (MB):	
<u>D</u> efault	
OK Cancel	

#### Default color depth for textures

This option determines whether textures of a specific color depth should be used by default in OpenGL applications. **Use desktop color depth** will always use textures of the color depth at which your Windows desktop is currently running. The **Always use 16 bpp** and **Always use 32 bpp** options will force the use of textures of the specified color depth, regardless of your desktop settings.

#### **Buffer flipping**

Buffer flipping is used to eliminate visible tearing when rendering images. It must be enabled to use double buffering and the Wait for V-Sync option.

#### Vertical sync

Waiting for V-Sync causes screen updates to synchronize to the vertical refresh. isabling this option allows frame rates higher than the vertical refresh rate but visible rendering errors may occur. Buffer flipping must be enabled to use this option.

# **Setting the Boot Options**

To set the Boot option setting:

🏶 Adapter Control [ SPECTRA 2500 ]	? ×	
Desktop Gamma Overlay Cursor TV C	Dut	
Resolution	Screen Position	
1024 x 768 High Color (16 bit)		
Refresh Rate		
Adapter default		
	Screen Extent	
	♦ ₩ ■ ♦ ¥	
	<u>D</u> efault	
	OK Cancel Apply Bring u	p the Co

1. 🛽

Panel's Display Properties window.

- 2. Click on the **Settings** tab and then click on the **Advanced** ... button.
- 3. Click on the **SPECTRA Information** tab.
- 4. Click on the **Advanced...** button and then click on the Boot **Option** tab.
- 5. In the Options section use the setting check box.
- 6. Click **OK**.
- 7. Restart Dialog Windows Click **Yes**.

Advanced Options	? ×
General D3D Performance OpenGL	DirectX Compatibility   OpenGL    Boot Options
AGP Enable AGP sideband addressing Enable AGP East Write	
AGP Transfer Mode requi	rement:
O <u>1</u> X ⊙ <u>2</u> X	O≞×
System Information	<u>D</u> efault
	OK Cancel

### AGP

Enable AGP sideband addressing Enable AGP Sideband addressing.

### **Enable AGP Fast Write**

Enable AGP Fast Write.

# AGP Transfer Mode requirement AGP Transfer Mode 1X and 2X.