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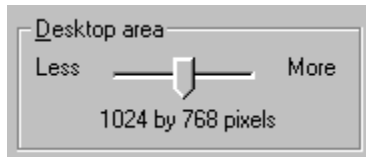
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Setting Your Desktop Resolution

To set the resolution of your desktop:

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




4. Click **OK** or **A**pply.

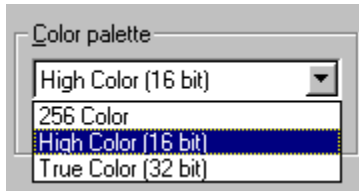
-or-

1. Click on the **Display Control** icon  in the taskbar.
2. Click on the resolution (and color depth) you want.

Setting Your Desktop's Color Depth

To set the color depth of your desktop:

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





4. Click **OK** or **A**pply.

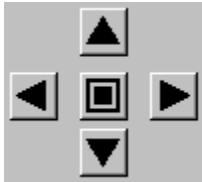
-or-

1. Click on the **Display Control** icon  in the taskbar.
2. Click on the color depth (and resolution) you want.

Setting the Screen Position of Your Monitor

To set the screen position of your monitor:

1.  Bring up the Control Panel's Display Properties window.
2. In Windows 95 click on the **PWR128 Cursor/Monitor** tab.
In Windows 98 click on the **Advanced...** button and then click on the **PWR128 Options** tab.
3. 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  to reset the screen to its original position.




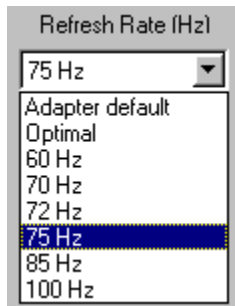
5. Click **OK** or **Apply**.

Note: You cannot use PWR128 display utilities to adjust your monitor's screen position while TV-out is enabled.

Setting the Refresh Rate for Your Monitor


To set the vertical refresh rate for your monitor:

1.  Bring up the Control Panel's Display Properties window.
2. In Windows 95 click on the **PWR128 Cursor/Monitor** tab.
In Windows 98 click on the **Advanced...** button and then click on the **Adapter** tab.
3. Display the Refresh Rate (Hz) options in the Screen Position/Refresh box.



4. Select the refresh rate you prefer.
5. The desktop will switch to the selected refresh rate. You will be asked if you want to keep the setting. If you do, click **OK**. Otherwise, your original refresh rate will be restored after 10 seconds.
6. Click **OK** or **Apply**.

-or-


1. Click on the **Display Control** icon  in the taskbar.
2. Go to Refresh Frequency and click on a new refresh rate.
3. Your screen will go black, and your desktop will change to the selected refresh rate.

Note: If it is your first time switching to the selected refresh rate, you will be asked if you want to keep the setting. If you do, then click **OK**. Otherwise, your display will return to its original refresh rate.

You can also use the PWR128 Refresh Utility to adjust your refresh rates. Run it from the **Display Control** icon on your taskbar.

Setting the Brightness of Your Display

To set the brightness of your display:

1.  Bring up the Control Panel's Display Properties window.
2. In Windows 95 click on the **PWR128 Gamma Control** tab.
In Windows 98 click on the **Advanced...** button and then click on the **PWR128 Gamma Control** tab.
3. Move the middle slider, marked **Brightness**, to the left or right to achieve the desired level.



4. You can also type **Alt-t** and use the left and right arrow keys to move the slider precisely.
5. To save this new setting for later use, select **S**ave and type a file name for the new setting.
6. To use a previously saved setting, select **L**oad and the file name for that setting.
7. To reset to the standard setting, select **D**efault.
8. Click **OK** or **A**pply.

You can also change the brightness of the red, green, or blue hues in your display separately:

1. In the "Color" box on the right hand side of the **PWR128 Gamma Control** tab, select the red, green, or blue button, or type **Alt-r**, **Alt-g**, or **Alt-b**.




2. Follow steps 3-8 above.

Setting brightness for your TV:

There is a separate brightness control in the **PWR128 TV** tab of the Display Properties control panel. It allows you to set the brightness for your TV independently from your monitor.

Setting the Contrast of Your Display

To set the contrast of your display:

1.  Bring up the Control Panel's Display Properties window.
2. In Windows 95 click on the **PWR128 Gamma Control** tab.
In Windows 98 click on the **Advanced...** button and then click on the **PWR128 Gamma Control** tab.
3. Move the bottom slider, marked **C**ontrast, to the left or right to achieve the desired level.



4. You can also type **Alt-c** and use the left and right arrow keys to move the slider precisely.
5. To save this new setting for later use, select **S**ave and type a file name for the new setting.
6. To use a previously saved setting, select **L**oad and the file name for that setting.
7. To reset to the standard setting, select **D**efault.
8. Click **OK** or **A**pply.

You can also change the contrast of the red, green, or blue hues in your display separately:


1. In the "Color" box on the right hand side of the **PWR128 Gamma Control** tab, select the red, green, or blue button, or type **Alt-r**, **Alt-g**, or **Alt-b**.



2. Follow steps 3-8 above.

Setting the Gamma of Your Display

To set the gamma (or "whiteness") of your display:

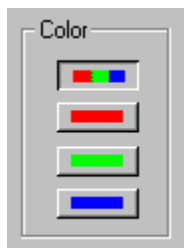
1.  Bring up the Control Panel's Display Properties window.
2. In Windows 95 click on the **PWR128 Gamma Control** tab.
In Windows 98 click on the **Advanced...** button and then click on the **PWR128 Gamma Control** tab.
3. Move the top slider, marked **Gamma**, to the left or right to achieve the desired level.



4. You can also type **Alt-a** and use the left and right arrow keys to move the slider precisely.
5. To save this new setting for later use, select **Save** and type a file name for the new setting.
6. To use a previously saved setting, select **Load** and the file name for that setting.
7. To reset to the standard setting, select **Default**.
8. Click **OK** or **Apply**.

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


1. In the "Color" box on the right hand side of the **PWR128 Gamma Control** tab, select the red, green, or blue button, or type **Alt-r**, **Alt-g**, or **Alt-b**.

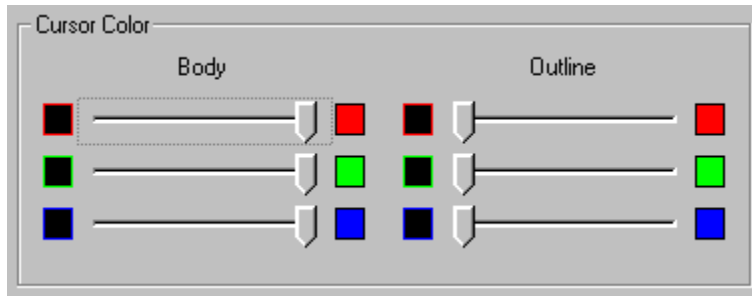


2. Follow steps 3-8 above.

Setting Your Cursor Color

To set the color of your cursor:


1.  Bring up the Control Panel's Display Properties window.
2. In Windows 95 click on the **PWR128 Cursor/Monitor** tab.
In Windows 98 click on the **Advanced...** button and then click on the **PWR128 Options** tab.
3. Move the sliders on the left hand side of the Cursor Color box to adjust the cursor's body color.
4. Move the sliders on the right hand side of the Cursor Color box to adjust the cursor's outline color.

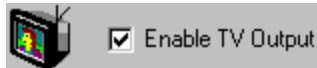


5. Click **OK** or **Apply**.

Displaying on your TV

Turning on TV output:


1. Connect the Video-out of the PWR128 card to the Video-In of the TV.
2.  Bring up the Control Panel's Display Properties window.
3. In Windows 95 click on the **PWR128 TV** tab.
In Windows 98 click on the **Advanced...** button and then click on the **PWR128 TV** tab.
4. Check the "Enable TV Output" box.

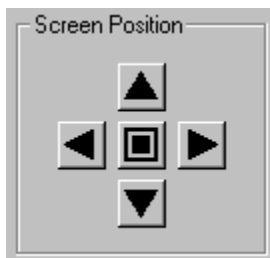


5. You will then be asked if you want to change your desktop to a TV compatible mode. Click **OK**.
Your desktop resolution will be reset to 640x480x60 Hz (50 Hz if you select PAL mode). 800x600 is also supported.
6. Click OK or Apply.

Adjusting the screen position on your TV:

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

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 **Apply**.

Options for TV display:



PWR128 offers several options for customizing your TV display.

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

Underscan Mode fits the desktop into the TV's viewable display area.

Experiment to find the ones that work the best with your television and applications. Flicker free and Underscan modes are not recommended for playing back video on the TV.

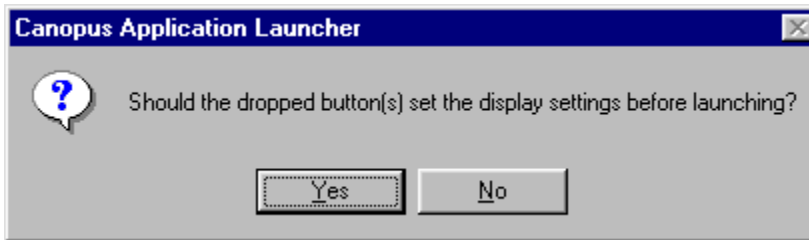
Note: Flicker Free Mode is always enabled in Underscan Mode.

Setting up Games to work with the Application Launcher



To setup a game to just launch with the Application Launcher:

1. Select the Games group in the Application Launcher
2. Drag and drop the game icon onto the Launcher tool bar
3. Answer No when prompted to set the Display settings.



To setup a game to launch and set the gamma with the Application Launcher:

1. Adjust the gamma to the desired level using the [Gamma](#) control in the Display Properties window.
2. Select the Games group in the Application Launcher
3. Drag and drop the game icon onto the Launcher tool bar
4. Answer Yes when prompted to set the Display settings.

Understanding the Media Scope Controls



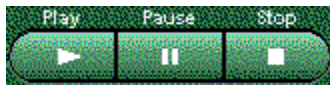
Power: Exit Media Scope.

Media: Select what media to play. You can choose from **File**, **Video CD**, **Audio CD**, or **Live Video**.

Drive: Select the CD-ROM drive to use for Video CD playback.

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.



Previous Track: 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 Track: 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.

Video CD control: For controlling playback of Video CD 2.0 titles.

Record: Capture live video to disk.



Rewind: Rewind while the button is held down.

Fast Forward: Fast forward while the button is held down.

Frame Back: Go back one frame while playback is paused. (Works when playing back AVI files.)

Frame Forward: Advance one frame while playback is paused. (Works when playing back AVI files.)




- 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.
- H.Res:** Select high resolution still frame mode for video CDs.



- Size:** Choose display size (**1x**, **2x**, **3x**, **Maximize**, **Full Screen**). Unavailable sizes are displayed in gray. Note: 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.



- 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 **Program**.
-  : Change the size of the Media Scope control.

Capturing Video(Only PWR128/4VC,NX/4VC,PWR128 GTV)


To capture video with Power Cinema:

1. Connect your composite or S-Video source to "V IN" on the back of your PWR128 card.
2. Click the **MEDIA** button at the top of the remote, and select **Live Video**:




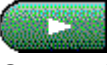
3. This will modify the remote, bringing up the capture buttons:



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 (Power Cinema 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.


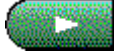
Playing MPEG and AVI Files

To play MPEG or AVI files:

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

Playing Video and Audio CDs

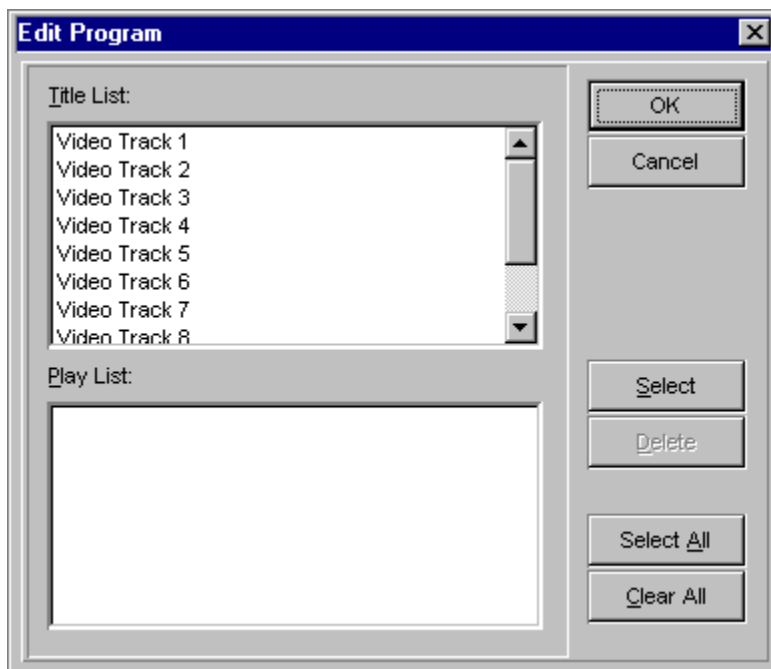
To play Video or Audio CDs:

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.
2. Click on the **Media**  selector at the top of the remote and set it to **V**ideo CD or **A**udio CD.
3. Click on **Play**  to load the CD, and begin playback from the first track.
4. You can now use the keypad to select a track to play, or use the **EDIT** command to create a pre-programmed play list.

Creating a Program List

To create a program list:

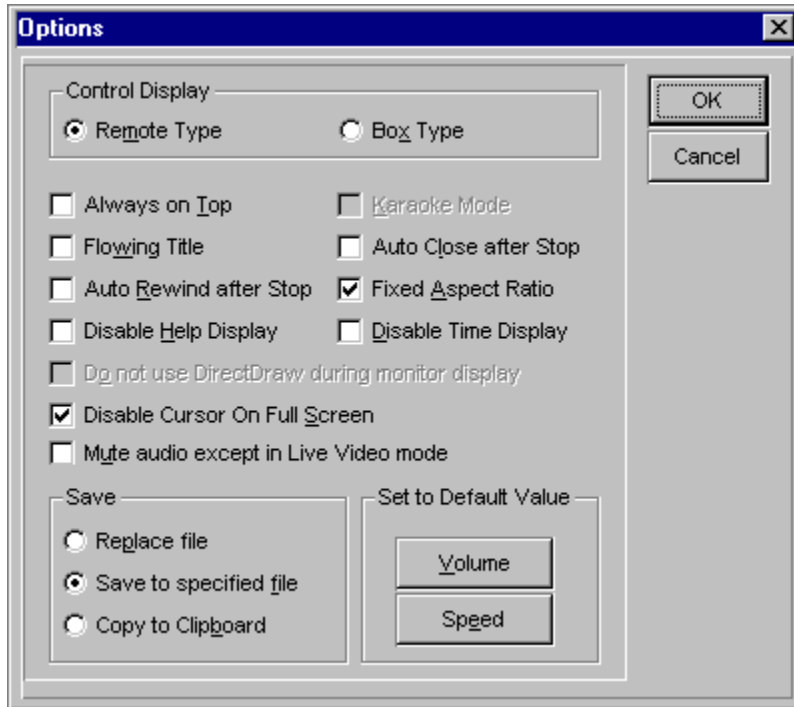
1. Begin playing a video or audio CD. Or, select a directory containing MPEG or AVI files by playing one of those files.
2. Click on the **EDIT** button and a dialog box like this will be displayed:



3. From the **Title List**, click on each track (or file) you want to play, and then click on the **Select** button. The selected tracks will be saved in the **Play List**.
4. When finished selecting titles, click **OK**.
5. Click on **PROGRAM** to play the tracks in the programmed order.

Setting Options for Media Scope

You can set the following preferences with the Options button:



Control Display

Selects the layout of Power Cinema EX.

Always on Top

Always display Power Cinema 95 in the foreground, even when another application is the active window.

Auto Rewind after Stop

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

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.

Auto Close after Stop

When playback ends, close the display window.

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 Time Display

Do not display the time elapsed during playback.

Do not use DirectDraw during monitor display

Check here to disable DirectDraw for monitor display.

Note: When you are capturing still images from MPEG files or Video CDs, check here.

Mute except in Live Video

Check here to mute the line in audio except during Live Video mode.

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.

V-Shot Overview (Only PWR128/4VC,NX/4VC,PWR128 GTV)

V-Shot allows you to capture high quality still images from any video source at resolutions of up to 1500x1125.

[Capturing pictures from a video source](#)

[Processing pictures](#)

[V-Shot Processor](#)

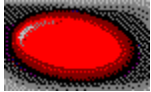
[Managing your "film" \(pre-processed pictures\)](#)

[Options menu](#)

Capturing Pictures with V-Shot

V-Shot lets you capture first, process later:

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 PWR128.
2. V-Shot will then display this live video in the large preview screen 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](#).

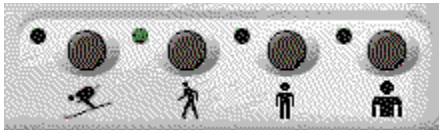
Processing Pictures

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 [V-Shot Processor](#).
5. You can reprocess an image with different processing mode and size settings.

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 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.

Set As Wallpaper: 

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.

Print: 

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.

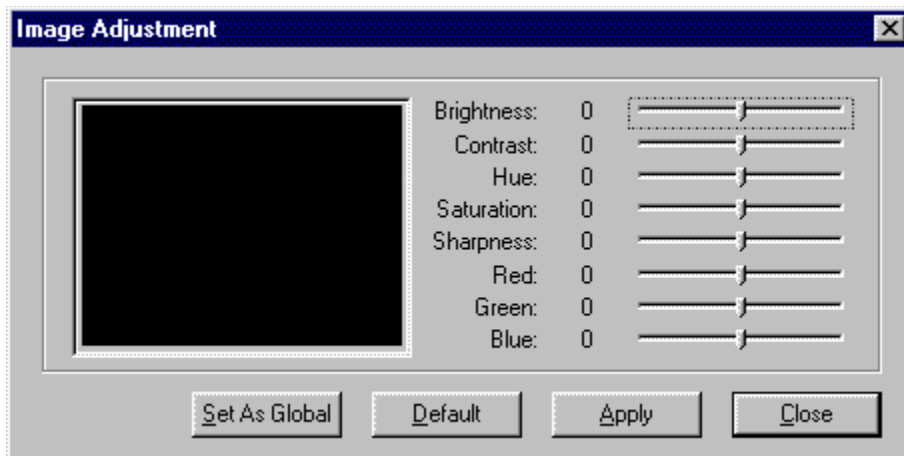
Edit Menu

Copy: 

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.



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

View Menu

Fit Window to Image: 

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

Toolbar/Status bar:

Toggle display of the Toolbar and Status Bar.

V-Shot Options Menu

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 [V-Shot Processor](#).

Prompt for Delete

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

Display Picture Number

Displays a picture number in the thumbnail preview window.

How the Application Launcher Works



The Canopus Application Launcher provides one click access to often used applications and games. The Launcher is a tool bar style window which is dockable onto the sides of the desktop or it can be undocked as a floating window. It has a unique feature in that it works directly with Canopus graphics cards to provide custom Display settings for each button (i.e. application) on the tool bar.

Display settings can be broken down into Desktop settings and Product settings. Desktop settings are the resolution and bit depth properties of the display. Product settings are the other properties supported by a Canopus graphics card. These properties include gamma, TV control, refresh rates, etc.

Each button on the Application Launcher can be configured to do the following:

1. Just launch an application;
2. Set the Display settings and launch an application;
3. Just set the Display settings.

The Application Launcher is installed automatically by the setup and will load automatically each time Windows is started. The Launcher comes with 3 groups setup by default; the Canopus group, the Games group, and the Applications group. Just click the group button and its applications will become visible.

Note: The Canopus group contains a Desktop button which has the Desktop settings at the time the Application Launcher was installed. This button is used to restore the desktop to its normal or most commonly used state if other applications will change the Desktop settings.

Adding / Removing Applications



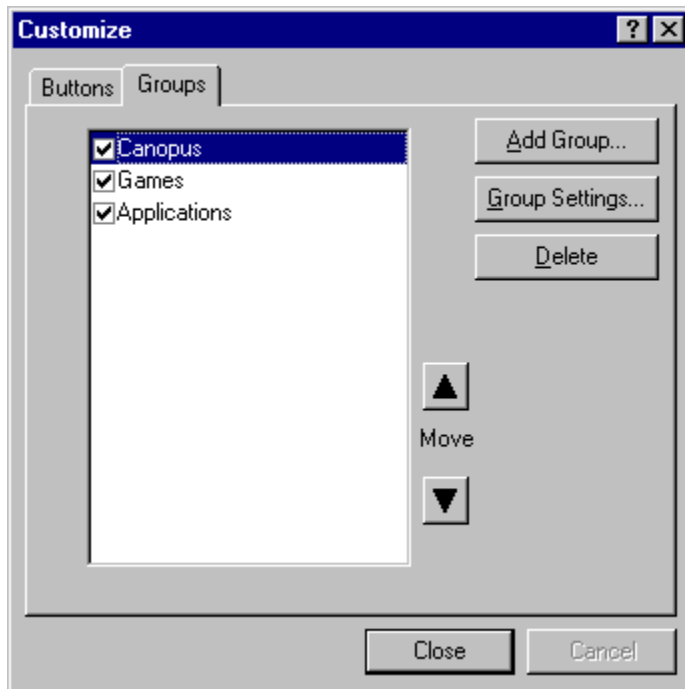
Adding an Application

Applications are added to the Application Launcher by dragging and dropping the application's icon onto the Launcher tool bar or by customizing the tool bar. When dropping an icon onto the Launcher a window will pop up asking if the display settings should be set or not when launching the application.



The Application Launcher can save all of Display settings at the time the icon is dropped. These include desktop resolution, bit depth (Desktop settings), and also the Product settings for the Total3D 128, Pure3D, or PWR128 (e.g. gamma, refresh rate, TV control, etc.).

Another way to add an application to the Launcher is to right click on the tool bar and select **Customize** to bring up the Customize dialog window.



Select the correct group in the Group box to add the new application. Click **Add Button** to bring up the Add Button dialog window and select the application to add.

Adding Space between buttons

Space can be added between buttons if desired. Just click the button in the button list to insert a space above it and then click **Add Space**. Spaces can not be added on either end of the list and multiple spaces will display as one.

Removing an Application

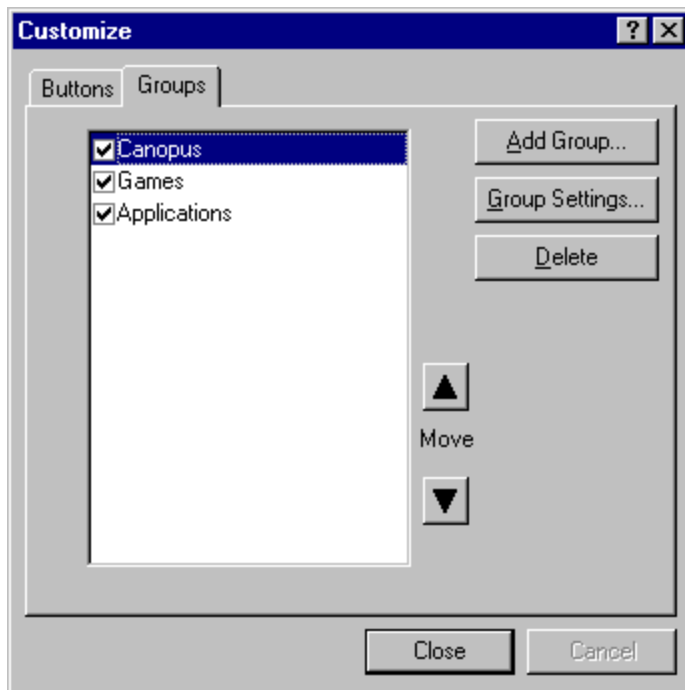
An application can be removed by first right clicking on the tool bar and selecting **Customize** to bring up the Customize dialog window. Select the group in which the application resides and then select the application from the button list window. Hit the **Delete** button to remove the button from the Application Launcher.

Adding / Removing Groups

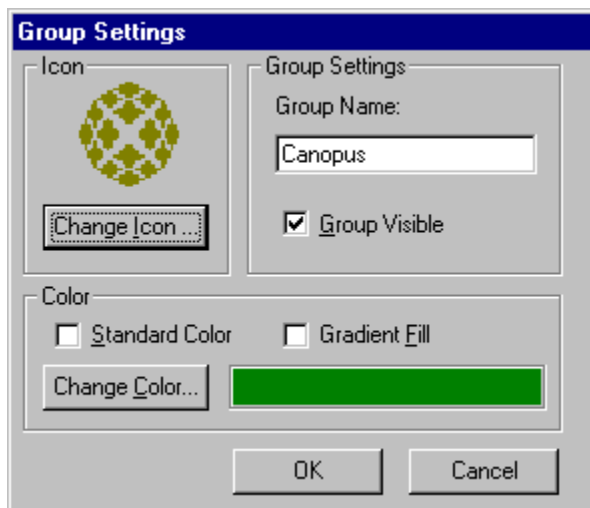


Adding a Group

Groups are added to the Application Launcher by right clicking on the tool bar and selecting **Customize** to bring up the Customize dialog window.



Click on the Groups tab to display the Groups sheet and then click the **Add Group** button to bring up the Group Settings dialog window.



For each group, the group name, icon, and color can be specified in the Group Settings window. The group color can be a solid or gradient fill or even a custom color can be used.

Removing a Group

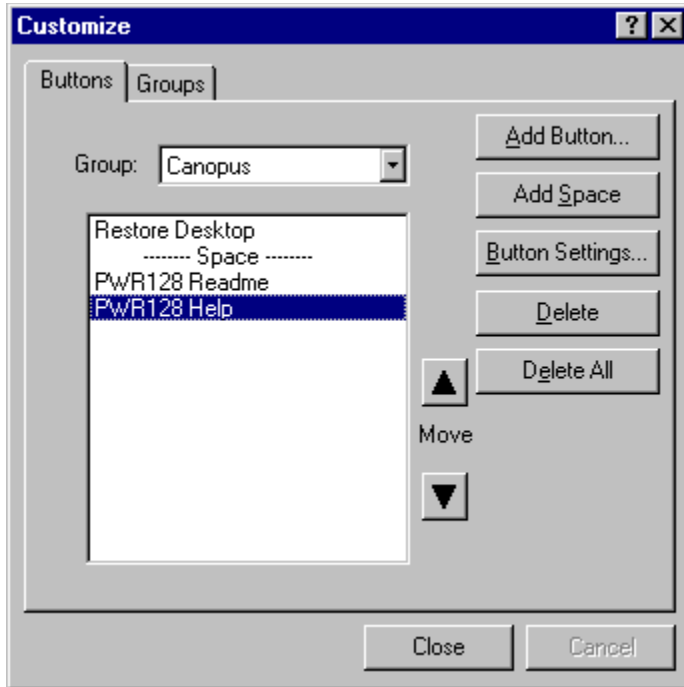
An group can be removed by first right clicking on the tool bar and selecting **Customize** to bring up the Customize dialog window. Click on the Groups tab and select the group to remove. Hit the **Delete** button to remove the group from the Application Launcher.

Note: group can be made invisible by unchecking the group in the group list window.

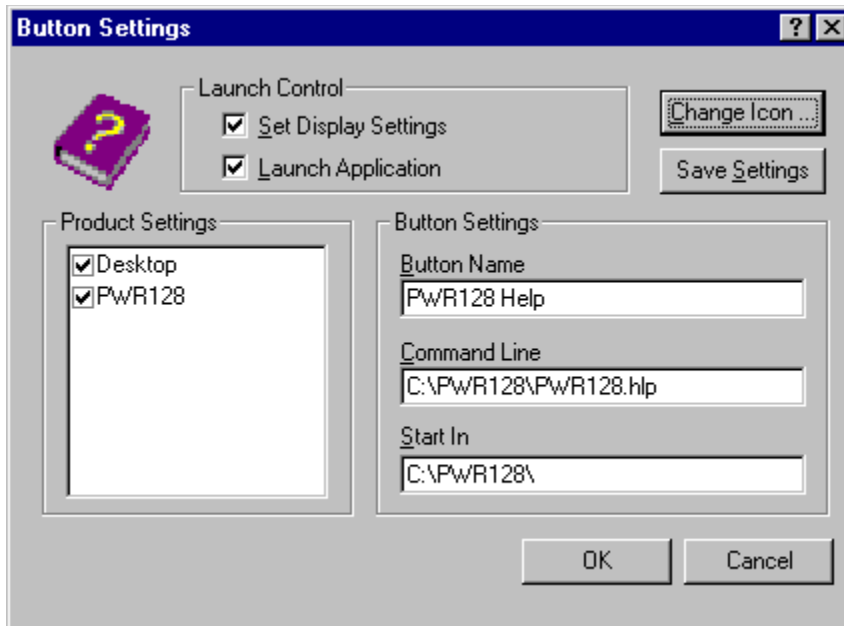
Customizing an Application's Launch Settings



To customize an application's Launch Settings first right click on the tool bar and select **Customize** to bring up the Customize dialog window.



Select the correct group from the Group box and then select the desired application in the list window. Click **Button Settings** to bring up the Button Settings window.



Launch Control

Checking the Set Display Settings option causes the Application Launcher to set the Desktop and Product settings (if they are checked in the Product Settings list box) before the application is launched. If Set Display Settings is not checked then pressing the application's button on the Launcher will just launch the application if the Launch Application option is checked. If both options are unchecked the clicking the button will do nothing.

The default Restore Desktop button in the Canopus group has just the Set Display Settings option checked. By just using this option different buttons can be set up to instantly change between different resolutions and bit depths.

Product Settings

The Product Settings window lists the products which can be configured when an application is launched.

The Desktop product is always listed and consists of the resolution and bit depth. When checked and Set Display Settings is also checked, the resolution and bit depth will be set when the Launcher button is clicked.

Canopus graphics products will also be listed in the Product Settings window. Each product can be individually selected to have its settings set when the Launcher button is clicked.

Button Settings

The button name and command line string for starting the applications are entered in the Button Settings section. The button name will appear when the mouse is over the button on the Application Launcher.

Save Settings

The Save Settings button is used to save all of the Desktop and Product Settings to be set when the application is launched. The Desktop and Product Settings can be selectively saved by checking or unchecking them in the Product Settings window.

The Save Settings function can also be accessed by right clicking on the Launcher button and selecting **Save Settings** from the menu.

Loading the Application Launcher



The Canopus Application Launcher starts automatically each time Windows starts. To have the Launcher not automatically load each time Windows starts then right click on the tool bar to pop up the Launcher program menu.



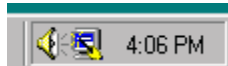
Select Auto Load to uncheck Auto Load and the Launcher will not load when Windows starts.

The Application Launcher can be started anytime by going to the Windows start menu and selecting Programs -> Canopus PWR128 -> Application Launcher.

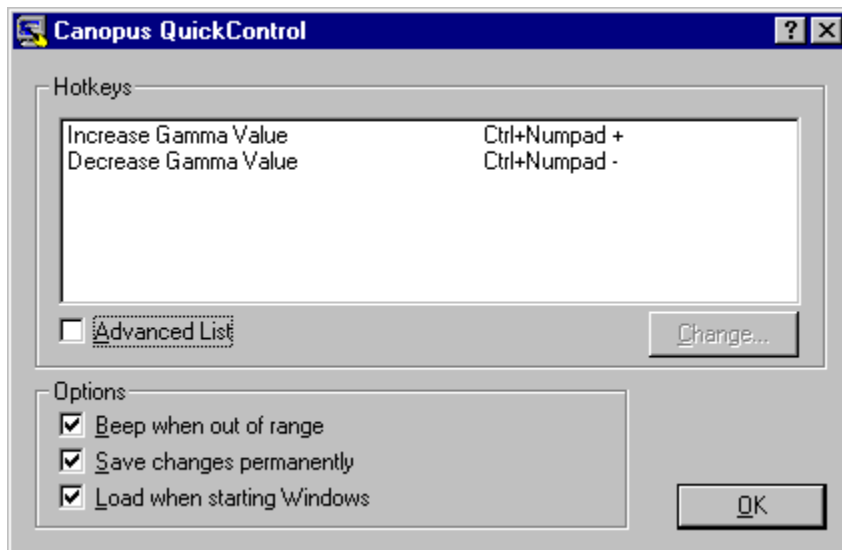
How QuickControl Works

The Canopus QuickControl utility provides hotkey access to various functions which are controlled by the display card. Hotkey access alleviates the problem of having to bring up the Display Properties tab to adjust the display settings to see the results real time when an application is running. For example, gamma settings can be adjusted during game play to customize them for each game or even to make the images appear brighter.

QuickControl installs automatically in the tray bar of the start menu.



Click on the QuickControl icon to activate its menu and select Configure... to bring up the QuickControl dialog window.



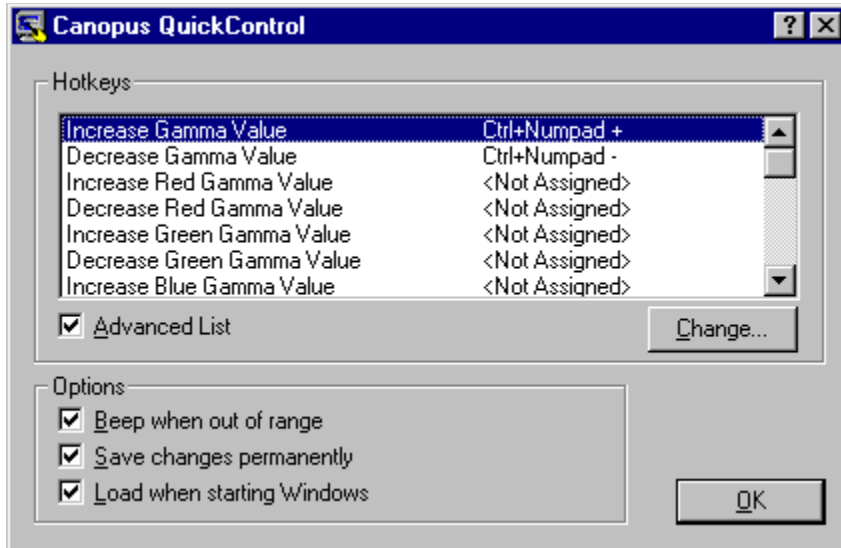
The Increase and Decrease Gamma Value functions are assigned by default with the key assignments listed in the window. Pressing the hotkey will cause the function to occur real time when QuickControl is active in the tray bar. For example, pressing Ctrl+Numpad + will increase the gamma of the screen.

By default the Advanced List is not enabled and its functions are not assigned. Click on the Advanced List to see all of the functions available.

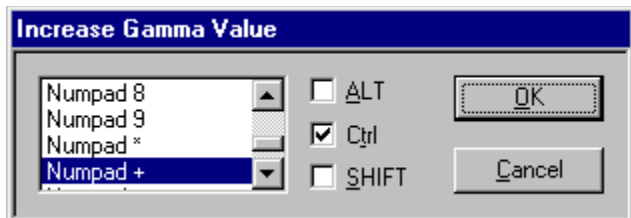
Help is provided within QuickControl by pressing the "?" in the upper right corner of the windows and selecting the item in question.

Assigning Hotkeys

Hotkeys are assigned in the QuickControl dialog window. By default only the Increase and Decrease Gamma Values are available in the Hotkey list. Click on the Advanced List checkbox to see all of the functions available.



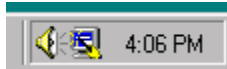
Select the function to assign a hotkey and click on the Change... button to bring up the hotkey assignment window (or you can double click the function).



Select the desired key combinations and hit OK to accept.

Loading / Unloading QuickControl

The Canopus QuickControl installs automatically in the tray bar of the start menu.



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

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



