



RADIUSWARE

RADIUSWARE

RADIUSWARE

RADIUSWARE

RADIUSWARE

RADIUSWARE

RADIUSWARE

***RadiusWare***

***User's Manual***

March, 1991

Radius Inc.  
San Jose, CA



## **Table of Contents**

|                                                        |               |
|--------------------------------------------------------|---------------|
| <b>Introduction .....</b>                              | <b>v</b>      |
| Registration Card .....                                | v             |
| Overview of the RadiusWare User's Manual .....         | vi            |
| <br><b>Chapter 1 — Getting Started .....</b>           | <br><b>1</b>  |
| Installing RadiusWare .....                            | 1             |
| Setting Up Using the Monitors Control Panel .....      | 2             |
| Choosing Colors or Grays .....                         | 3             |
| Choosing the Number of Colors or Shades of Gray ....   | 4             |
| Selecting the Desktop Pattern on a Color Display ..... | 5             |
| For Systems with Several Displays .....                | 7             |
| Setting Display Alignment .....                        | 8             |
| Choosing a Main Display .....                          | 9             |
| <br><b>Chapter 2 — RadiusWare Features .....</b>       | <br><b>11</b> |
| Selecting the RadiusWare Features .....                | 11            |
| Master Switch .....                                    | 12            |
| About... Button .....                                  | 13            |
| Enlarged Menu Font .....                               | 14            |
| Tear-off Menus .....                                   | 14            |
| Screen Saver .....                                     | 18            |
| Screen Capture .....                                   | 19            |
| The Second Page of the Radius Control Panel .....      | 21            |
| Changing Bit Depth .....                               | 22            |
| Locating the Cursor on the Desktop .....               | 22            |
| The Third Page of the Radius Control Panel .....       | 23            |
| Special Settings .....                                 | 24            |
| Auto-Centering .....                                   | 25            |
| Auto-Lowering .....                                    | 25            |

|                                                                |           |
|----------------------------------------------------------------|-----------|
| <b>Chapter 3 — RadiusWare Features for</b>                     |           |
| <b>Pivot Displays .....</b>                                    | <b>27</b> |
| Selecting Pivot-Specific Features from the Second              |           |
| Page of the Radius Control Panel .....                         | 27        |
| Dynamic Desktop .....                                          | 28        |
| Finder Cleanup .....                                           | 29        |
| Selecting Pivot-Specific Features from the Third               |           |
| Page of the Radius Control Panel .....                         | 30        |
| Specifying Alternative Dialog Boxes .....                      | 31        |
| Specifying Big Boundaries .....                                | 32        |
| Desktop Changes After a Flip .....                             | 33        |
| Restrictions on Flipping Your Display .....                    | 34        |
| The Pivot Display as One of Several Displays .....             | 38        |
| Zooming Windows After You Flip .....                           | 38        |
| <br><b>Chapter 4 — Soft Pivot for Pivot Displays</b>           |           |
| <b>Connected to Built-in Video .....</b>                       | <b>39</b> |
| Memory Allocated by Built-in Video .....                       | 40        |
| Memory Allocated for Colors and Gray Shades .....              | 40        |
| The Soft Pivot Control Panel .....                             | 41        |
| Memory Allocated for Landscape Operation .....                 | 42        |
| Soft Pivot Support for Color Pivots .....                      | 43        |
| <br><b>Chapter 5 — Changing Color Pivot's Resolution .....</b> | <b>45</b> |
| <br><b>Chapter 6 — Reference .....</b>                         | <b>49</b> |
| General Troubleshooting Procedures .....                       | 49        |
| Troubleshooting for the Pivot Display .....                    | 51        |
| Radius Customer Support and Service .....                      | 52        |
| <br><b>Appendix A: System Software Requirements .....</b>      | <b>54</b> |
| <br><b>Appendix B: A/UX Compatibility .....</b>                | <b>55</b> |
| <br><b>Appendix C: Software License Agreement .....</b>        | <b>56</b> |
| <br><b>Appendix D: Radius Warranty .....</b>                   | <b>59</b> |
| <br><b>Index .....</b>                                         | <b>63</b> |

## ***Introduction***

Congratulations on your purchase of a Radius display system. Included with your system is RadiusWare, advanced system software that makes you more productive when working with high-resolution displays. Your RadiusWare disk(s) also includes additional software for specific Radius products; for instance, Soft Pivot, which allows Pivot displays connected to the built-in video port of a Macintosh to operate in both vertical (portrait) and horizontal (landscape) orientations.

This manual contains the operating and installation instructions for the version of RadiusWare included with all Radius display systems for the Macintosh LC, Macintosh SE/30, and Macintosh II computers. A separate chapter is devoted to Pivot displays and explains how to use the RadiusWare features unique to them.

Before installing RadiusWare, make sure your Radius display is installed and operational. Installation instructions for your Radius display are in the display's user's manual.

### ***Registration Card***

A separate registration card is included with your Radius display system. This card will also register your RadiusWare. Please complete and return the registration card to Radius so that we can provide you with the best customer support possible.

## **Overview of the RadiusWare User's Manual**

This manual provides specific steps for the installation and use of RadiusWare, as well as tips for using Radius products. The manual is divided into six chapters and includes a table of contents and an index.

- Chapter 1 ..... *Getting Started* explains how to install RadiusWare on your startup disk and how to set up your display using the Monitors Control Panel.
- Chapter 2 ..... *RadiusWare Features* explains the controls and features of RadiusWare.
- Chapter 3 ..... *RadiusWare Features for Pivot Displays* explains the RadiusWare features and controls used with Pivot displays.
- Chapter 4 ..... *Soft Pivot for Pivot Displays Connected to Built-in Video* describes Soft Pivot (the software that enables the built-in video port to emulate a Pivot interface card) and allocating memory for displaying colors and grays.
- Chapter 5 ..... *Changing Color Pivot's Resolution* describes changing that display's resolution from 72 dpi to 82 dpi and back.
- Chapter 6 ..... *Reference* contains a troubleshooting section, as well as customer service information and product line information.

# Chapter 1

## Getting Started

This chapter explains how to install RadiusWare into the System Folder on your startup disk and set up your display using the Monitors Control Panel.

If you use more than one startup disk, RadiusWare must be installed onto each one (except for disks with the A/UX operating system; see *Appendix B*) for you to use its features. Depending on the type of Radius display system you have, the installer program might install other Radius software in your System Folder when it installs RadiusWare.

Your Radius interface card must be installed in the Macintosh and connected to the Radius display in order for you to use the RadiusWare features. See your Radius display user's manual for the complete procedures on how to install your Radius display system.

If you are connecting a Pivot or Color Pivot display to a built-in video port rather than to a Radius interface card, you must install Soft Pivot—the software that enables the built-in video port to emulate the interface card—in the System Folder.

### Important:

*You should be using at least Macintosh System Software Version 6.0.5. RadiusWare may not operate properly with earlier versions. Refer to Appendix A for more information about Macintosh System Software.*

### Installing RadiusWare

1. If you are using an external hard disk drive with your system, turn its power on. Next, turn the power for the Macintosh and the display on.

2. When the Macintosh desktop appears, insert the RadiusWare disk into the disk drive.
3. Double-click on the RadiusWare disk icon to display the contents of the disk.
4. Double-click on the *Read Me (RadiusWare)* file to display specific installation instructions for your display system.

**Important:**

*Any changes made to RadiusWare after this manual was printed will be noted in this Read Me file.*

5. Print the contents of the *Read Me* file by selecting Print from the File menu and following the instructions in the dialog box.
6. Choose Quit from the File menu to close the *Read Me* file.
7. Follow the procedures outlined in the *Read Me* file to install RadiusWare and any other Radius software your system may require.

RadiusWare will automatically load when the Macintosh is restarted.

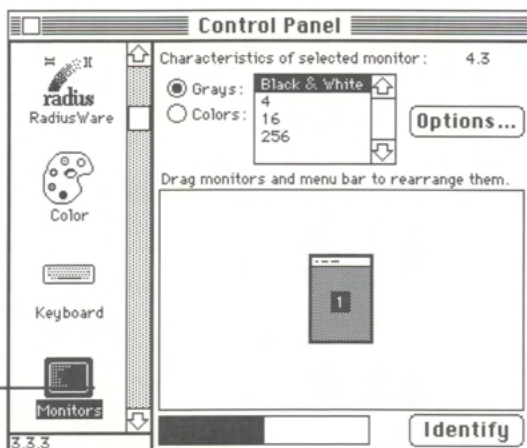
***Setting Up Using the Monitors Control Panel***

Before selecting your RadiusWare features, you should first define certain characteristics of the Radius display you'll be connecting to your Macintosh. All of these characteristics can be set by selecting the Monitors icon from the Control Panel in the Apple (🍏) menu. For more information, refer to the Apple System Software manual included with the Macintosh computer.

*To define the characteristics of your display,*

1. Choose Control Panel from the Apple (🍏) menu.

2. Click on the Monitors icon on the left side of the Control Panel. You may need to scroll through the icons on the left side of the Control Panel to locate the Monitors icon.



Click on the  
Monitors icon to  
open the Monitors  
Control Panel

*The Monitors Control Panel*

### **Choosing Colors or Grays**

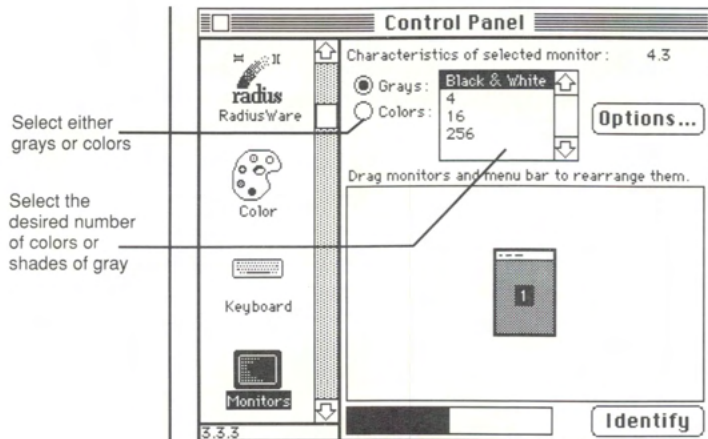
For the best on-screen resolution, you'll need to define the color capabilities of the display you are connecting to your Macintosh.

If you have a monochrome display, choose Grays. If you have a color display, choose Colors. With a color display, it may be preferable to choose Grays for word processing or other text-based applications.

### ***Choosing the Number of Colors or Shades of Gray***

Depending on the type of Radius display system you are using, the Control Panel may offer you several choices for selecting the number of colors or shades of gray (not all choices are listed below).

- The Radius FPD and TPD interfaces offer only the black-and-white choice.
- The Radius Pivot interfaces allow you to work with either 2 (black and white) or 4 shades of gray.
- The Radius Color Pivot interfaces offer 2, 4, 16, or 256 colors or shades of gray.
- Pivot displays connected to the built-in video port on the Macintosh will display up to 16 shades of gray.
- Color Pivot displays connected to the built-in video port on the Macintosh will display up to 16 colors.
- The Radius GS/C interfaces offer 2, 16, or 256 colors or shades of gray.
- The Radius DirectColor Series interfaces display up to 16 million colors if Apple's 32-Bit QuickDraw™ is installed in your System Folder. See *Appendix A, System Software Requirements*, for additional information.

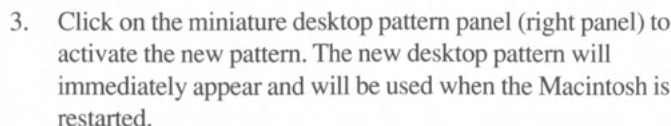


### **Selecting the Desktop Pattern on a Color Display**

When you use a color display, we recommend changing the standard desktop pattern to a solid color to avoid the distracting circular patterns that might appear on the screen.

1. Click on General on the left side of the Control Panel and find the Desktop Pattern icons.
2. Scroll through the available pre-set patterns by clicking the menu bar of the miniature desktop pattern panel (right panel).

1. Select the desired color from the color bar below the Desktop Pattern icons. Other color choices are available: double-click on any color box and a color wheel window will appear. You can manipulate your color options to select the preferred desktop color.
2. In the magnified pattern box, click on the pixels that you want to change. (Radius recommends a solid color pattern.)



See your Apple System Software manual for more information about selecting desktop patterns.

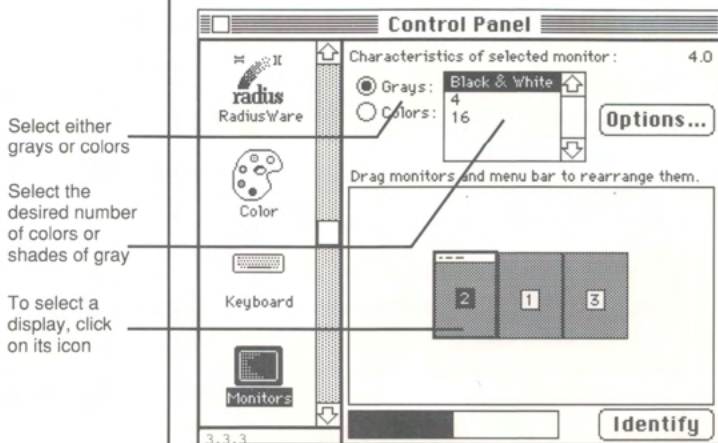
### ***For Systems with Several Displays***

If you are using more than one display, each display will be represented by an icon in the lower right-hand portion of the Monitors Control Panel. The icons are shown in proportion to their actual dimensions. The following sections will help you configure a system with multiple displays.

*To set the number of gray shades or colors you will be working with for each display,*

1. Click on the Monitors icon in the Control Panel, as described in the previous section.
2. Click on the icon that represents the display you wish to configure, which will highlight the icon's border.
3. Choose Grays or Colors, as appropriate.
4. Choose the number of colors or shades of gray from the available choices.

Repeat the above procedure for each display.



*Multiple display system*

*NOTE:*

With a multiple display system, clicking on the Identify button in the Monitors Control Panel will display a number on each screen corresponding to the numbered icons.

If your display is connected to a Macintosh SE/30, the built-in, 9-inch screen will always be your second display (number 2). Of course, you will not be able to set colors or levels of gray for the SE/30's built-in screen, because it offers only black and white.

### ***Setting Display Alignment***

For a multiple display system, the Monitors Control Panel enables you to adjust the alignment of the monitor icons to match the position of your displays.

1. Click on a monitor icon and hold the mouse button down. The icon will become highlighted.
2. Drag the icon until it reflects the position of the display.

Monitor icons can be moved up or down and left or right for alignment.

3. Repeat this process for each of the monitor icons, until the position of the icons matches the position of your displays.
4. Select Restart from the Special menu to activate the new display positions.

When the Macintosh restarts, drag the cursor across all the displays. The cursor should flow smoothly from the screen of one display to the screen of the next. If it doesn't, your displays are not properly aligned. Return to the Monitors Control Panel and adjust the icons again.

**NOTE:**

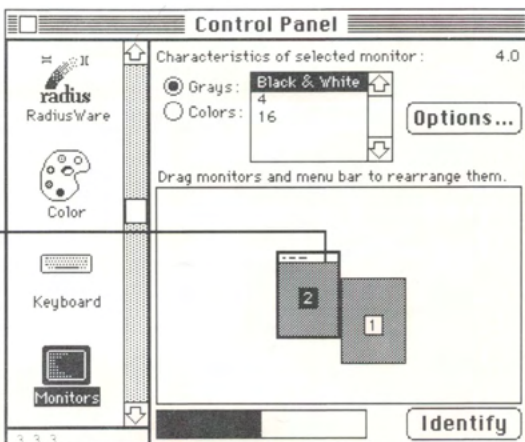
If your Radius display is connected to a Macintosh SE/30 and you have positioned the SE/30 so that you cannot see its screen (underneath a desk, for instance), position the monitor icons so they touch only at a corner. This will reduce the possibility of the cursor becoming "lost" on the SE/30 screen.

### **Choosing a Main Display**

You can use the Monitors Control Panel to choose the display that will be the main display for your system. The main display will have the menu bar and the Finder icons. When you start your system up after installing new video cards, the main display will automatically be display 1 (as numbered in the Monitors Control Panel).

*To select the display you wish to use as the main display,*

1. Drag the miniature menu bar to the icon representing your desired main display.
2. Select Restart from the Special menu to activate the new main display designation.



*NOTE:*

Radius interface cards automatically detect connection to an external display. If a Radius display has been selected as the main display and is not connected to its interface card, the menu bar will automatically move to another, connected display. This feature saves you from having to remove the Radius interface card when the Radius display is disconnected.

## Chapter 2

### ***RadiusWare Features***

RadiusWare features are designed to increase your productivity when working with a Radius display. You can set these features using the Radius icon in the Control Panel. All choices made from the Control Panel remain in effect until you change them.

The Radius Control Panel differs slightly among the various Radius products. The following features apply to all products, unless stated otherwise.

#### ***Selecting the RadiusWare Features***

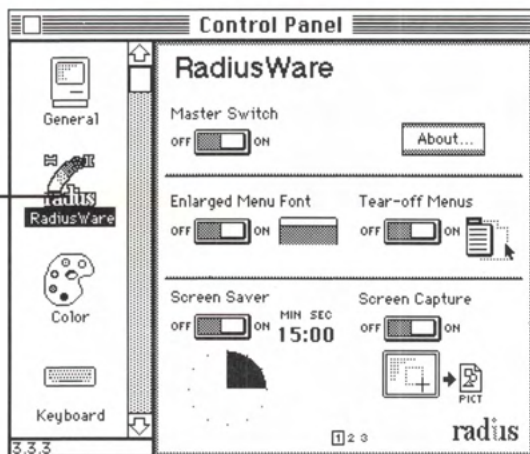
##### ***NOTE:***

The default setting is ON for all RadiusWare features, except when otherwise noted.

*To access the Radius Control Panel,*

1. Choose Control Panel from the Apple (🍏) menu.
2. Select the Radius icon, titled *RadiusWare*, from the left side of the Control Panel. You may need to scroll through the icons on the left side of the Control Panel to locate the Radius icon.

Click here to  
access the  
Radius  
Control Panel



### *Radius Control Panel*

#### **Important:**

*Changes to some RadiusWare features do not take effect immediately and require you to restart the Macintosh. If this is the case, a small dialog box will appear in the Radius Control Panel alerting you to restart the Macintosh.*

#### **Master Switch**



The Master Switch is designed to deactivate all RadiusWare features to avoid potential conflicts with other files that might be on your Macintosh. When the Master Switch is turned off, all of the feature switches in the Radius Control Panel will be off and inactive when you restart the Macintosh.

*To use the Master Switch to deactivate all RadiusWare features,*

1. Click the Master Switch to the OFF position.
2. Restart the Macintosh to implement this change.

*To return to your previous settings,*

1. Click the Master Switch button to the ON position.
2. Restart the Macintosh to implement this change.

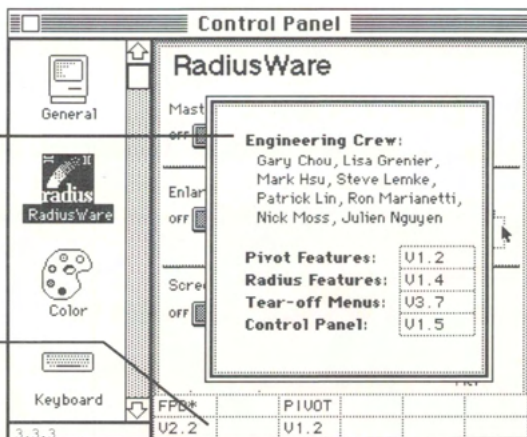
### **About... Button**



The About... button displays important information regarding your Radius display system.

Click the About... button to display

- An information box with version numbers of the software modules included in RadiusWare.
- The Radius ROM version number installed on your display interface.



*The Radius Information Box*

Click the mouse to return to the Radius Control Panel.

### **Enlarged Menu Font**



RadiusWare provides the option of displaying an enlarged menu font that enhances readability on a larger screen. Menus are displayed in either a larger size (16-point type; ON) or the regular Macintosh size (12-point type; OFF).

*To choose menu font size,*

1. Click the switch to turn Enlarged Menu Font on or off.
2. Restart the Macintosh to activate this change.

### **Tear-off Menus**



Ordinarily, you access a Macintosh pull-down menu by moving the cursor to the menu bar, holding down the mouse button, and dragging down the menu. A selection is made when you release the mouse button, at which point the menu is closed. RadiusWare allows you to “tear off” a menu and move it to another location, where it will remain open and active until you close it.

*To choose tear-off menus,*

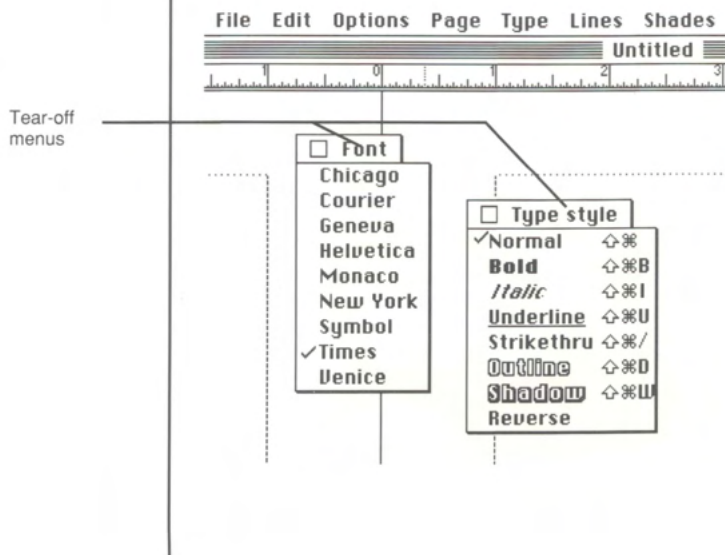
- Click the Tear-off Menus switch to the ON position.

*To tear a menu off,*

1. Move the cursor to the menu bar, hold down the mouse button, and pull down the menu.
2. Continue holding down the mouse button, and move the cursor to the left or the right and outside the menu box. A dotted outline of the menu will follow the cursor as you drag away from the original menu. When the mouse button is released, the menu will be displayed in the position of the outline. Moving the cursor back to the original menu before releasing the mouse button will restore the menu to its original location. A menu that has been torn off will remain open until you close it.
3. You can now choose a command from a Tear-off Menu by moving the cursor to the command and clicking.

*To reposition a Tear-off Menu after it has been opened,*

- Move the cursor to the menu's title bar, hold down the mouse button, and drag the menu to a new location.



The extensive screen area of a Radius display provides ample room to open and tear off several menus.

Because Tear-off Menus remain open and active, all the choices in a menu are available at a glance. This is useful for particularly long and commonly used menus like Fonts and Patterns. In addition, you can refer to an open Tear-off Menu to identify optional keyboard equivalents.

Both parent menus and sub-menus can be torn away from the menu bar. However, sub-menus cannot be accessed from a parent menu that has been detached from the menu bar.

When the switch is on, you will be able to tear menus off from most applications and from the Finder. If the switch is turned off while menus are open, they will all close instantly. When running MultiFinder, turning the switch off will close all menus in every open application.

*To close a menu,*

- Click the close box in the menu's title bar.

*To close all open menus in the current application simultaneously,*

- Hold down the Option key and click in any menu's close box.

**Important:**

*Although most dialog boxes will appear on the screen in front of Tear-off Menus, some will be hidden behind them (especially those that are not the standard double-bordered dialog boxes). If the OK or Cancel button in the dialog box is inaccessible, press the Return key or ⌘-Period to close the dialog box. Move or close the menu before opening the dialog box again.*

Some menus vary their width depending on the information displayed. (For example, sometimes a long file name is added after the Open command in the File menu.) This is normal. Some menus may change height as well, as items are added to or deleted from the menu.

### **Tear-off Menu Compatibility**

If any incompatibility with Tear-off Menus is suspected, click the Tear-off Menus switch to the OFF position. The Tear-off Menu option takes effect immediately. You do not need to restart your Macintosh.

### **Color Menus on a Color Display**

When menus are in a customized color, Tear-off Menus will also be in color. However, if you move a menu from a color screen to a black-and-white (1-bit) screen, the colors may be converted by QuickDraw in an undesirable way; e.g., the menu background color and the text color might both convert to black, making the text unreadable. To avoid this, try customizing color choices to render more appropriately on a 1-bit screen.

### **Tear-off Menus and MultiFinder**

Under MultiFinder, you can tear menus off as usual. When switching between applications, menus of the current application replace those of the former application. Menus of only one application will appear at a time. The  menu must be torn off in each application. If you turn Tear-off Menus off from the Radius Control Panel, all Tear-off Menus in all open applications will be closed.

## Screen Saver



When Screen Saver is turned on, all displays connected to the system will be dimmed with a star pattern after the length of time you specify on the clock. This reduces the possibility of damaging the screen phosphor. Processes in progress will not be affected when the screen darkens; printing, telecommunications, or program compilation will proceed uninterrupted.

Moving the mouse, clicking the mouse button, or hitting a key on the keyboard will restore the screen to its original image.

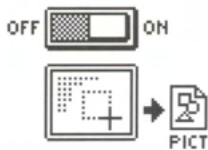
### *To set Screen Saver,*

- Position the cursor on the clock face and drag the hand to the desired time. The shaded area will represent the length of time before dimming occurs, or
- Change the time by clicking on the minutes (MIN) digits or seconds (SEC) digits and entering the desired time from the keyboard, or
- Select the minutes or seconds digits, and change the time with the two arrows that appear to the right of the digital time. Click on these arrows until you get to the desired time.

### *To deactivate Screen Saver,*

- Click the switch to OFF. The clock icon and numbers will be dimmed to show that Screen Saver is deactivated.

## Screen Capture



When Screen Capture is turned on, you can capture any rectangular portion of the desktop as a PICT2 file. When working on a Radius display, you can use Screen Capture to capture and save images in the current bit depth level (color or grayscale) of the display system. (The bit depth level can be selected in the Monitors Control Panel or with the Radius Bit Depth Changer.)

*To choose Screen Capture,*

1. Click the Screen Capture switch to the ON position.

*To create a screen capture,*

1. Type  $\mathbb{H}$ -Shift-3. A rotating cross-hair cursor will appear on your screen.
2. Position the cursor at one corner of the rectangular area that you wish to capture.
3. Hold down the mouse button, drag the cursor to the opposite corner, and release the mouse button. A rectangular frame follows the cursor while you drag.
4. Double-click the mouse button within the selected area to capture the desired image.

To cancel a screen capture after selecting an area, press  $\mathbb{H}$ -Period.

A "Save As..." dialog box will appear, which will allow you to name each screen capture file and save it to the desired location on your disk. The screen image will be saved as a PICT2 file. Captured images can be opened by any software application that can read the PICT2 file format.

Conventional Macintosh screen captures are saved as MacPaint documents, which can store only a fixed  $576 \times 720$  bitmap, and only in black and white.

If you hear a beep after double-clicking, the screen capture was not successful. The area captured may be too large for the available memory or disk space in your system.

*NOTE:*

The area you select should not span multiple displays.

*To deactivate Screen Capture,*

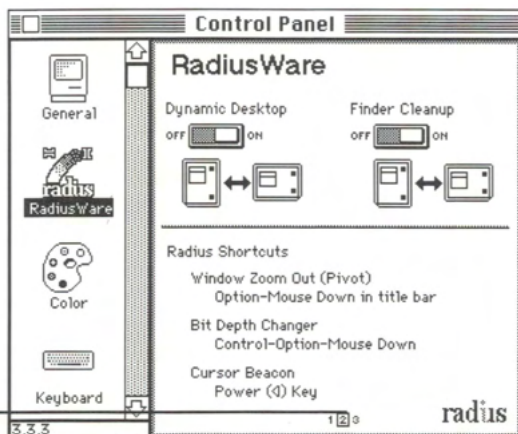
- Click the switch to OFF. Typing  $\text{⌘}$ -Shift-3 will now give you the standard MacPaint screen capture, as provided by the Macintosh System Software.

## ***The Second Page of the Radius Control Panel***

The second page of the Radius Control Panel contains features specific to the dual-orientation capability of the Pivot display and illustrates some keyboard shortcuts.

*To access Page 2 of the Radius Control Panel,*

- Click on the page 2 button in the lower central portion of the Radius Control Panel.



Click on page 2

### *Page 2 of the Radius Control Panel*

The Pivot-specific functions, Dynamic Desktop and Finder Cleanup, are discussed in Chapter 3. These controls will be inactive if you do not have a Pivot display.

The bottom half of Page 2 lists keyboard shortcuts that make some tasks easier to accomplish. The first, Window Zoom Out, is relevant only to the Pivot displays and is discussed in Chapter 3. The others are discussed below.

### ***Changing Bit Depth***

To access the Radius Bit Depth Changer, hold down the Option and Control keys, and then depress the mouse button. The small “pop-up” menu that will appear allows you to change the number of colors or gray shades available without having to go through the Monitors Control Panel. The number of choices will depend on the type of display you have.

|                            |
|----------------------------|
| ✓ <b>Black &amp; White</b> |
| 4                          |
| 16                         |
| ✓ <b>Grays</b>             |
| Colors                     |

The Bit Depth Changer also lets you choose either grays or colors. Any changes you make with the Bit Depth Changer remain in effect until you change them again.

If you hear a beep after making a change with the Bit Depth Changer, open and then close the Monitors Control Panel to update the system information regarding your display configuration.

### ***Locating the Cursor on the Desktop***

Working with a large display, it is possible to lose sight of the cursor. Pressing the Power On key at the top of the standard keyboard will briefly flash a circle around the cursor to help locate it. If you are using the extended keyboard, the Power On key is located in the upper right-hand corner.

### The Third Page of the Radius Control Panel

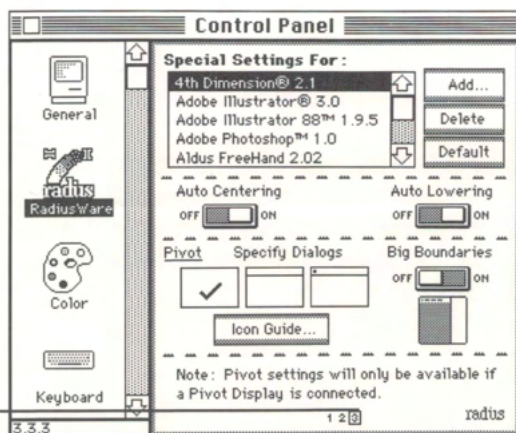
The third page of the Radius Control Panel lets you designate special settings for individual applications: auto-centering and auto-lowering (of dialog boxes), which can be specified for all Radius displays, and Specify Dialogs and Big Boundaries, which can be set for Pivot displays only. The latter two settings, discussed in *Selecting Pivot-Specific Features from the Third Page of the Radius Control Panel*, will appear gray if you do not have a Pivot display.

#### Important:

*Your RadiusWare already contains the necessary settings for many of the most popular Macintosh applications. If the applications you use are listed, you should not need to add to or modify these settings. However, you should add major updates to the applications already listed.*

To access Page 3 of the Radius Control Panel,

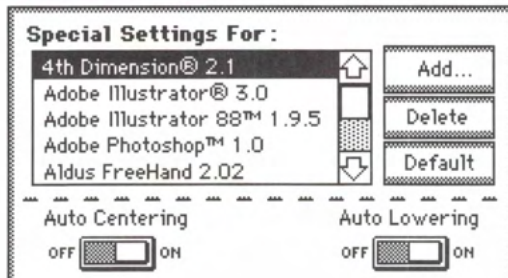
- Click on the page 3 button in the lower central portion of the Radius Control Panel.



Click on page 3

Page 3 of the Radius Control Panel

## Special Settings



The Special Settings portion of the RadiusWare Control Panel allows you to designate auto-centering and auto-lowering of dialog boxes by application.

*To add a new application to the Special Settings list,*

1. Make sure the application you are adding is not open.
2. Click on the Add button. A dialog box will appear, allowing you to locate the application on your disk drive.
3. Once you locate the application you wish to add, click the Open button. Your application will now appear in the Special Settings list.

The Delete button will delete an application from the Special Settings list. The Default button will restore the default settings for the applications that were preconfigured by Radius. The Default button will be inactive for the applications that you add to the list.

**NOTE:**

If you have renamed an application already in the list, you do not need to add it. RadiusWare will recognize listed applications regardless of their file names.

### **Auto-Centering**



When Auto-Centering is on, RadiusWare will automatically center dialog boxes on the screen to compensate for the extra space of the larger display. If you have more than one display in your system, this feature will bring the dialog boxes up on the screen where the cursor is located, making the dialog box easier to access.

*To turn Auto-Centering on or off for an application,*

1. Select the application by clicking on it in the Radius Control Panel. If the application is not listed, add it to the list as described above.
2. Click the Auto-Centering switch on or off, as desired.

### **Auto-Lowering**



When the Enlarged Menu Font feature is in effect, some applications may place the title bars of their windows slightly behind the menu bar. Auto-Lowering places windows below the menu bar.

*To turn Auto-Lowering on or off for an application,*

1. Select the application by clicking on it in the Radius Control Panel. If the application is not listed, add it to the list as described above.
2. Click the Auto-Lowering switch on or off, as desired.



## Chapter 3

### ***RadiusWare Features for Pivot Displays***

This chapter describes the RadiusWare features unique to the Radius Pivot and Color Pivot displays (found on the second and third pages of the Radius Control Panel), the desktop changes that occur after an orientation change, and the times when rotating a Pivot is restricted.

When RadiusWare is installed in your System Folder, you can rotate the display back and forth between portrait and landscape orientations without having to restart your Macintosh. This Dynamic Desktop feature allows you to work in the orientation best suited for each application.

#### ***Important:***

*If you have not installed RadiusWare, you will have to restart your Macintosh every time you change your Pivot's orientation. If your Pivot is connected to a built-in video port, Soft Pivot must also be installed in your System Folder. Chapter 4 explains Soft Pivot in detail.*

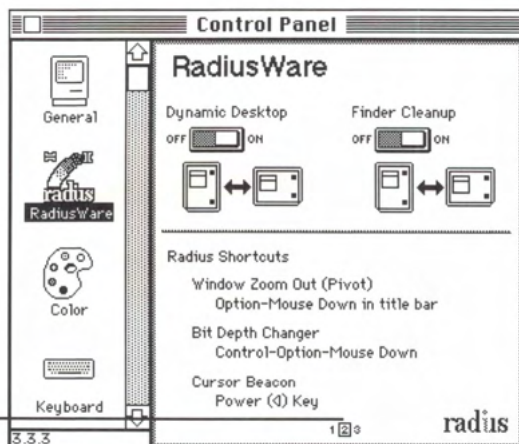
#### ***Selecting Pivot-Specific Features from the Second Page of the Radius Control Panel***

The second page of the Radius Control Panel contains features specific to the dual-orientation capability of the Pivot display and illustrates some keyboard shortcuts.

*To access Page 2 of the Radius Control Panel,*

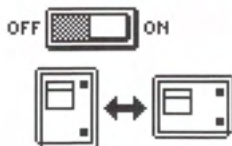
1. Choose Control Panel from the Apple () menu.
2. Click on the page 2 button in the lower central portion of the Radius Control Panel.

Click on page 2



*Page 2 of the Radius Control Panel*

### **Dynamic Desktop**



RadiusWare's Dynamic Desktop allows you to change the orientation of your Pivot display in real time, redrawing your desktop to match the new orientation. The default setting for Dynamic Desktop is ON.

When you rotate the Pivot display, the image on the screen will first fade out and then fade back in, with your desktop reconfigured in its new orientation.

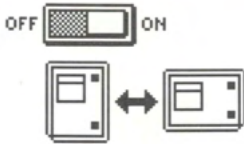
You can disable Dynamic Desktop so that a change in the display's orientation does not redraw your screen image.

*To disable Dynamic Desktop,*

- Click the switch to OFF.

This change takes effect immediately. When the Dynamic Desktop switch is set to OFF, you will have to restart your system to change the screen orientation of your Pivot display.

### ***Finder Cleanup***



RadiusWare also reorganizes the Finder after a flip. When you rotate your display to a new position, Finder Cleanup relocates the icons on your desktop to the right side of your screen and keeps them accessible. The default setting for Finder Cleanup is ON.

### ***Important:***

*After you rotate the Pivot display, Finder Cleanup repositions the trash can icon with the other disk and document icons on your desktop, not in its usual position in the lower right-hand corner of the display.*

If you are running multiple applications under MultiFinder, Finder Cleanup will not occur until you switch back to the Finder. You can disable Finder Cleanup so that your desktop icons are not relocated each time you flip the display.

*To disable Finder Cleanup,*

- Click the switch to OFF.

This change takes effect immediately. When the Finder Cleanup switch is set to OFF and you rotate the Pivot display, you may “lose” desktop icons that were in either the lower portion of the screen or the right-hand side of the screen. To find them again, flip back to your original orientation.

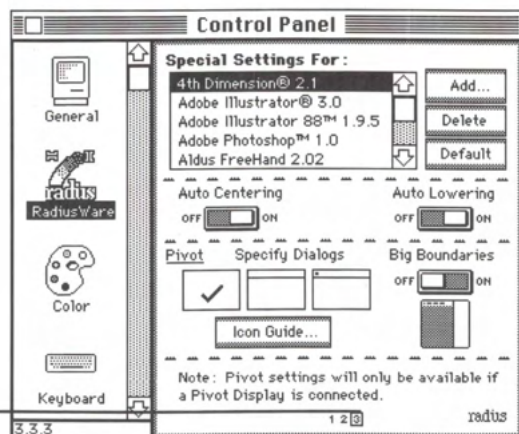
### **Selecting Pivot-Specific Features from the Third Page of the Radius Control Panel**

If you have connected your Macintosh to a Pivot display, the Specify Dialogs and Big Boundaries icons will appear black. If you haven’t connected to a Pivot, or have connected to it improperly, this section will still appear gray.

Read *Special Settings*, on page 24, before you change any settings on Page 3 of the Radius Control Panel.

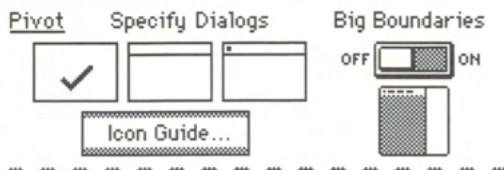
*To access Page 3 of the Radius Control Panel,*

- Click on the page 3 button in the lower central portion of the Radius Control Panel.



Click on page 3

## Specifying Alternative Dialog Boxes



Note: Pivot settings will only be available if a Pivot Display is connected.

RadiusWare prohibits changing orientation when any standard (double-bordered) dialog box is on the screen. Because applications sometimes use different dialog boxes, you should also set RadiusWare to prohibit changing orientation when these non-standard dialog boxes are active.

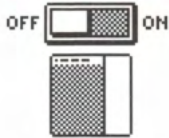
Icons for the three types of dialog boxes are shown in the Control Panel. Click the Icon Guide... button if you need a description of each one.

*To specify the dialog boxes your application uses,*

1. First check the Special Settings list of the Radius Control Panel to determine if your application is already listed. If it is, you may skip this section.
2. Determine what kinds of dialog boxes, if any, your application uses by running the application for a while and calling up various menu items.
3. Add the desired application to the Special Settings list, as described earlier.

4. Click each icon that applies to your application to prohibit an orientation change when that dialog box type is active. A check mark designates that the icon is selected and that screen reorientation will be prohibited when the dialog box is active.

### ***Specifying Big Boundaries***



Certain applications do not follow all QuickDraw conventions when drawing text and graphics on the screen. If you rotate a Pivot display when these applications are open, they do not properly redraw the “new” region of your screen. RadiusWare corrects this by allowing you to designate Big Boundaries.

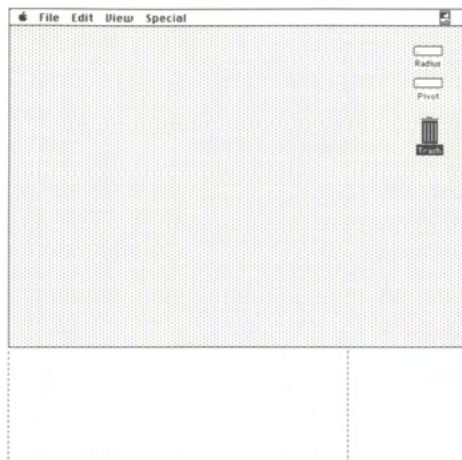
*To enable Big Boundaries for an application,*

1. First check the Special Settings list of the Radius Control Panel to determine if your application is already listed. If it is, you may skip this section.
2. If you have not already done so, add the desired application to the Special Settings list as described earlier.
3. Click the Big Boundaries switch to ON.

When Big Boundaries is on, the application believes that the screen area is square and correctly redraws the screen after a change in orientation. The actual screen area that you are using, however, remains a rectangularly shaped full page.

## Desktop Changes After a Flip

Rotating the Pivot display from portrait to landscape orientation removes screen area from the bottom of your display and adds screen area on the right side. The desktop is reconfigured and its icons are repositioned (refer to *Finder Cleanup*).



*Desktop changes after a flip: portrait to landscape*

### Important:

*Rotating the display will not affect the location or size of the windows on your desktop. You may wish to resize or reposition windows before you flip the display so that you retain access to the scroll bars and the size and zoom boxes.*

## **Restrictions on Flipping Your Display**

For the most part, Pivot displays may be rotated between portrait and landscape orientations at any time. However, the desktop will not be reconfigured if you flip when a standard dialog box is active on your screen or when an application is hiding the menu bar. In addition, depending on your application, you may need to work exclusively in the orientation in which the application was launched.

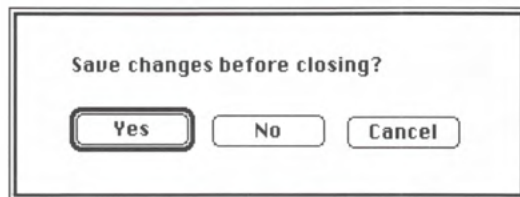
Each of these restrictions is described in more detail below.

### **When Dialog Boxes Are on Your Screen**

#### **Important:**

*Many dialog boxes require that you act on the options they present before you can proceed further with your work. As a result, you should not rotate your display when a dialog box is on your screen.*

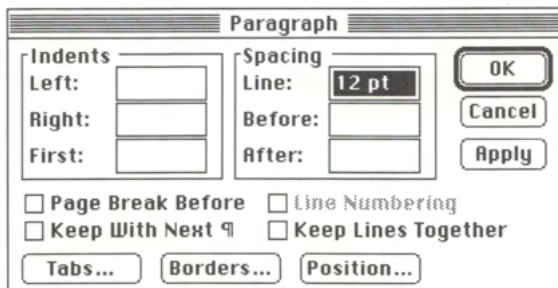
RadiusWare disables Dynamic Desktop when a standard dialog box is active. The desktop will not be reoriented if you rotate the Pivot display when one is open on your screen. The Macintosh will beep once to remind you that the dialog box must first be closed. Standard dialog boxes are presented in the familiar double-bordered window.



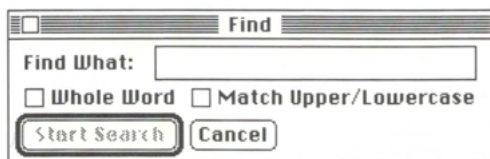
*Example of a standard dialog box*

Some applications use dialog boxes that are not double-bordered windows. Because these alternative dialog boxes sometimes resemble ordinary document windows, RadiusWare does not categorically prohibit desktop reorientation when they are on the screen.

Examples of two types of alternative dialog boxes are shown below.



*Window without a close box (Microsoft Word 4.0)*



*Window with a close box (Microsoft Word 4.0)*

A third type of alternative dialog box, used less frequently, is simply a single-bordered dialog box.

The *Specifying Alternative Dialog Boxes* section of this chapter describes how to indicate to RadiusWare the types of dialog boxes used by your applications.

### **When the Menu Bar Is Hidden**

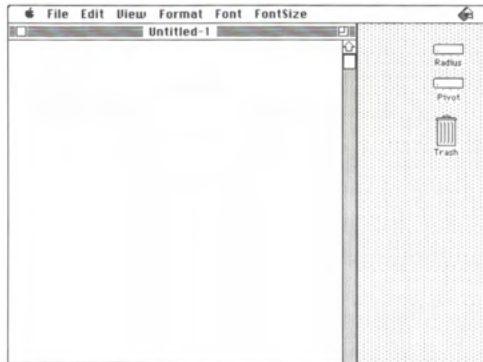
Some applications, such as HyperCard, allow you to hide the menu bar. RadiusWare disables Dynamic Desktop when the menu bar is hidden. You must make the menu bar visible before you rotate the Pivot display.

### When the Monitors Control Panel Is Open

Dynamic Desktop is also disabled when the Monitors Control Panel is open. You must first exit Monitors by selecting another Control Panel option or by closing the Control Panel altogether.

### Working in Launch-Sensitive Applications

Many applications are sensitive to the orientation in which they are started, or “launched.” For example, if you launch an application in portrait orientation and then flip to landscape, the application may continue to open portrait-sized windows when you create new documents, leaving the bottom of the window temporarily inaccessible. Or, if you launch an application in landscape orientation and then flip to portrait, the application may not properly center some dialog boxes, positioning buttons off screen.



*Applications may continue to open documents in the orientation in which they were launched*

**Important:**

*Radius recommends launching an application in the orientation in which you plan to use it. For example, if you are running MultiFinder, you might launch a word processing program in portrait orientation and a spreadsheet program in landscape orientation. You can then easily flip back and forth between applications.*

Of course, there are times when you will want to use an application in both orientations. A page layout program, for instance, will provide you with an actual size, full-page view in portrait orientation and a 75%, two-page view in landscape. Resizing your window before you rotate the Pivot will ensure that you retain access to the window's borders.

The following guidelines will minimize the impact that launch sensitivity has on your work. In general,

- Launch applications in the orientation in which you plan to primarily use them.
- Open documents in the application's launch orientation.
- If you do flip within an application, you can retain access to the scroll bars and the zoom and size boxes by resizing your windows before you rotate the display.
- If you launched an application in one orientation and wish to use it extensively in the other orientation, quit the application, rotate the Pivot display, and relaunch the application.

Radius is working closely with Macintosh software developers so applications can take full advantage of the Pivot display's dual-orientation capability.

## ***The Pivot Display as One of Several Displays***

Normally, when you make changes to the Monitors Control Panel, you must restart your Macintosh to activate the new settings. You may, however, rotate your Pivot to a new orientation without having to restart your system — even when you have more than one display. RadiusWare's Dynamic Desktop immediately reconfigures the relative position of all displays in your system.

The desktop's new shape will be reflected in the Monitors Control Panel the next time you access it.

### ***Important:***

*If you have more than one display in your system and rotate the Pivot display when your system is shut down, you will need to access the Monitors Control Panel when you start up to reconfigure your multiscreen desktop. The Pivot display's screen will not be recognized by your system until you open the Monitors Control Panel.*

## ***Zooming Windows After You Flip***

Depending on the size of your window, you may lose access to its borders when you rotate the Pivot display. RadiusWare provides a shortcut to easily zoom your window to the new orientation of your display for many applications. This is particularly useful if you launched an application in landscape orientation and then flipped to portrait, thereby losing immediate access to the window's zoom and size boxes.

*To quickly zoom your window,*

- Hold down the Option key and click on your window's title bar.

### ***NOTE:***

Applications that do not use Apple's standard toolbox routines for zooming windows may not recognize this command.

## Chapter 4

### ***Soft Pivot for Pivot Displays Connected to Built-in Video***

This chapter describes Soft Pivot, a software file that you must install in your System Folder if your Pivot display is connected to a Macintosh built-in video port. It also explains how to allocate memory for the display of colors and gray shades.

Soft Pivot transforms a built-in video port into a virtual Pivot interface card, allowing Pivot displays to operate in both portrait and landscape orientations. In addition, Soft Pivot reprograms built-in video to properly display colors on the Color Pivot.

#### ***Important:***

*A Color Pivot connected to a built-in video port will not function properly unless Soft Pivot is installed in your System Folder. Use the RadiusWare disks instead of your Macintosh disks to set up your system. The RadiusWare disks included with the Color Pivot contain both the Radius and Macintosh system software required for your configuration.*

*A monochrome Pivot connected to a built-in video port will function without Soft Pivot but only in portrait orientation. Make sure the display is in portrait orientation when you set up your system.*

Soft Pivot also allows you to take advantage of RadiusWare features without having a Radius interface card installed in your Macintosh.

### ***Memory Allocated by Built-in Video***

Macintosh computers with a display connected to the built-in video port allocate a portion of system memory for the display's screen image.

If your Macintosh has only 1MB of memory, you will be able to display images in only black and white; if it has at least 2MB of memory, you will be capable of displaying 16 colors or shades of gray. Radius strongly recommends at least 2MB of memory when using Soft Pivot.

The memory available to display colors or shades of gray depends on the total memory in your system, the size of your System file, and the size and number of the applications you wish to run, among other things.

#### ***NOTE:***

Soft Pivot is initially set to display only black and white images.

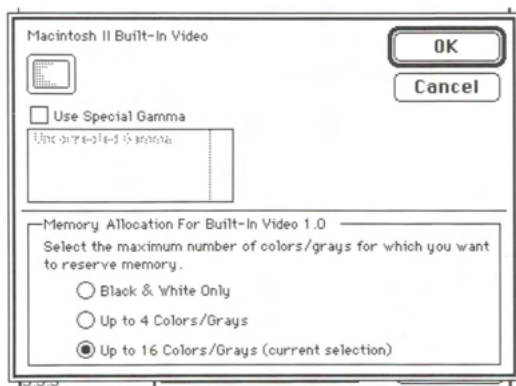
### ***Memory Allocated for Colors and Gray Shades***

An option in the Monitors Control Panel allows you to change the amount of memory allocated to built-in video. Reserving more memory for built-in video increases the number of colors or shades of gray you can display but decreases the amount of memory available for running applications.

Likewise, reserving less memory for built-in video decreases the number of colors or shades of gray you can display but increases the amount of memory available for running applications.

*To change the amount of memory allocated for the display of colors or shades of gray,*

1. Choose Control Panel from the Apple () menu.
2. Click on the Monitors icon on the left side of the Control Panel. You may need to scroll through the icons on the left side of the Control Panel to locate the Monitors icon.
3. Hold the Option key and click the Options button. (If you are using a system version later than 6.0.5, you do not need to hold the Option key.)

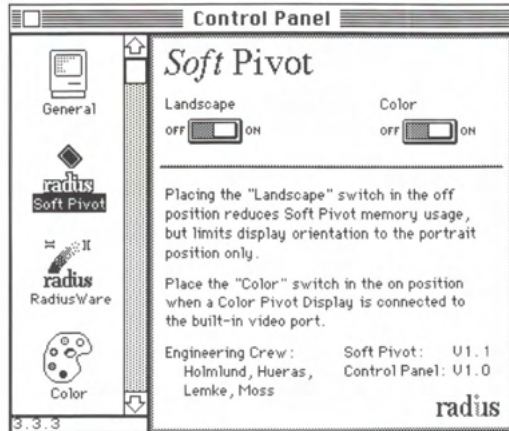


4. Select the maximum number of colors or grays for which you wish to reserve memory.
5. Click OK to exit from the Control Panel.
6. Restart your Macintosh by choosing Restart from the Special menu.

### ***The Soft Pivot Control Panel***

The Soft Pivot Control Panel lets you increase the memory available to run applications by disabling the display's ability to operate in landscape orientation. It also lets you reprogram built-

in video to send out video signals on all three color channels (eliminating the blue screen you might otherwise end up with on a color full-page display).



### **Memory Allocated for Landscape Operation**

#### **Landscape**



In addition to the memory allocated for the display of colors or shades of gray, Soft Pivot reserves memory for the rotation and display of the desktop in landscape orientation.

You can gain additional memory to run applications if you disable the Pivot's ability to operate in landscape orientation.

*To restrict a Pivot display to portrait-only operation,*

1. Place your Pivot display in portrait orientation.
2. Choose Control Panel from the Apple () menu.

3. Select the Radius icon, titled *Soft Pivot*, from the left side of the Control Panel. You may need to scroll through the icons on the left side of the Control Panel to locate this icon.
4. Click the Landscape switch to the OFF position.
5. Restart the Macintosh to implement this change.

### ***Soft Pivot Support for Color Pivots***

Color



The built-in video circuitry found in the Macintosh IIx and IIcx does not ordinarily support a color full-page display. Hence, if you connect a Color Pivot to a built-in video port without *first* installing Soft Pivot, the screen image will appear with a blue tint.

This occurs because built-in video sends out the video signal for full-page displays on its blue channel only, and not on the red and green channels that are also required to display color images. Soft Pivot overcomes this limitation by reprogramming built-in video to use all three channels (red, green, and blue) to display the screen image.

*To change the Soft Pivot setting for Color Pivots,*

1. Choose Control Panel from the Apple () menu.
2. Select the Radius icon, titled *Soft Pivot*, from the left side of the Control Panel. You may need to scroll through the icons on the left side of the Control Panel to locate this icon.
3. Click the Color switch to the desired setting: ON for a Color Pivot, OFF for a monochrome Pivot.
4. Restart the Macintosh to implement this change.



## Chapter 5

### *Changing Color Pivot's Resolution*

This chapter describes how to change the resolution of the Color Pivot. When connected to a Pivot interface card, this display allows you to select either *full-page* resolution (640 × 870 at 82 dots per inch) or *actual-size* resolution (564 × 760 at 72 dots per inch).

#### **Important:**

*Color Pivots connected to a built-in video port operate exclusively in full-page resolution.*

The number of dots displayed on the screen determines how much information you can see at one time. The density of those dots (dots per inch) determines how close text will appear to actual size on the display. The Macintosh system software uses a scale of 72 dots per inch to determine actual size for text.

Choosing full-page resolution means that you will see more information on the screen (i.e., a full page) but with a slight reduction in size. Choosing actual-size resolution means that you will see the information on your screen at actual size but will need to scroll to see an entire page.

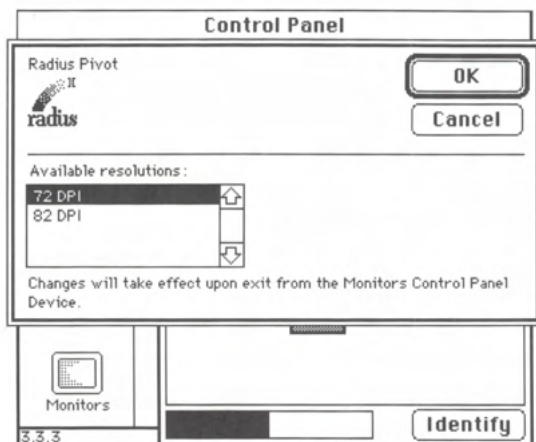
#### **Important:**

*The resolution you choose affects only how information is displayed and has no impact on how your documents will appear when printed.*

*To change the resolution of the Color Pivot,*

1. Make sure your display is connected to a Pivot interface card and that your system has been started with the Mode switch on the display's back panel in the proper position. Refer to the Color Pivot user's manual for information on setting the Mode switch.

2. Make sure that RadiusWare and the software file titled *Color Pivot Resolutions*, which is located on the RadiusWare disks included with your Color Pivot, have been installed in your System Folder.
3. Choose Control Panel from the Apple () menu.
4. Select the Monitors icon on the left side of the Control Panel.
5. Hold the Option key and click the Options button. (If you are using a system version later than 6.0.5, you do not need to hold the Option key.)



6. Select the resolution you wish to work with in the box titled *Available Resolutions* and click the OK button.
7. Close the Monitors Control Panel. If the Dynamic Desktop in the RadiusWare Control Panel is set to ON, the Color Pivot will fade out briefly and return in the new resolution. If not, the change will take effect the next time you restart your Macintosh.

*NOTE:*

RadiusWare's Finder Cleanup feature will relocate your desktop icons to the right-hand side of your screen so that they remain accessible. If you are running multiple applications under MultiFinder, this will not occur until you switch back to the Finder.



## Chapter 6

### Reference

This chapter contains troubleshooting tips, information about Radius Customer Support and Service, and a listing of Radius products.

#### **General Troubleshooting Procedures**

RadiusWare features are designed to make you more productive when working on large, high-resolution displays. However, should you experience difficulties with a particular application, the following steps will help isolate and resolve the problem.

1. Determine that the problem is repeatable and outline the steps required to duplicate it.
2. Verify that you are using Macintosh System Software Version 6.0.5 or later.

You can use the Finder to confirm your Macintosh System Software version. Choose *About the Finder* from the Apple () menu, and a dialog box will appear with System information. Consult your Radius Authorized Reseller for further information concerning Apple's latest releases.

3. Verify that you are using the latest version of RadiusWare and have the appropriate Radius ROMs (integrated circuit components installed on your interface card). Click the About... button in the Radius Control Panel to list the versions you are using, and then write down the versions. Contact your Radius Authorized Reseller for information on the latest releases of RadiusWare and Radius ROMs.

4. Verify that you are using the latest version of your application. Some incompatibilities may be resolved by upgrading to the most current version of the application.
5. Start your system from an original System disk. If the problem persists, it is not caused by a conflict with RadiusWare.

If the problem is resolved by starting from your System disk, make a copy of the disk and install RadiusWare into the System Folder on the copy. This will isolate RadiusWare from any other system files (referred to as INITs or cdevs) you may have in the System Folder of your normal startup disk. Then add the remaining INIT/cdev files from your normal System Folder one by one to see if any of them conflicts with RadiusWare.

If, after repeating the above procedures, you believe a software conflict exists between RadiusWare and your application, contact Radius Customer Support to report the problem. Refer to *Radius Customer Support and Service* for more information.

## ***Troubleshooting for the Pivot Display***

A few possible difficulties that you may encounter with RadiusWare and your Pivot display are listed here with some suggested remedies.

*The Macintosh desktop is not reoriented when the Pivot display is rotated.*

1. Is RadiusWare installed in the System Folder of your startup disk? If not, then you must restart your computer every time you wish to change orientations.
2. Have you installed Soft Pivot, in addition to RadiusWare, in your System Folder? A Pivot connected to a built-in video port requires Soft Pivot to operate in both orientations.
3. Is the Master Switch on Page 1 of the Radius Control Panel set to OFF? If so, turn the switch to ON and restart your system.
4. Is the Dynamic Desktop switch on Page 2 of the Radius Control Panel set to OFF? If so, turn the switch to ON.
5. Is a dialog box on your screen? Close the dialog box before rotating the Pivot display.
6. Is your current application hiding the menu bar? You cannot flip when the menu bar is hidden.

*While running an application, the "new" region of the screen is not properly redrawn immediately after the Pivot display is rotated.*

- Is the application listed in the Radius Control Panel with the Big Boundaries option set to ON? If not, refer to *Specifying Big Boundaries* for information on specifying Big Boundaries for an application.

*After the Pivot display is rotated, the desktop icons are not reoriented to remain accessible in the display's new position.*

1. Is the Finder Cleanup switch on Page 2 of the Radius Control Panel set to OFF? If so, turn the switch to ON.
2. Are you running an application under MultiFinder? If so, make Finder the current application by selecting it from the  menu or cycling through applications in the top right-hand corner of the menu bar. After a flip, desktop icons are not reoriented until Finder becomes the active application.

### ***Radius Customer Support and Service***

Radius has created a worldwide authorized reseller network to provide extensive support in both sales and service. If you cannot return to the reseller from whom you purchased your Radius display system and do not know the location of the nearest Radius Authorized Reseller, please contact the Radius Information Center at (800) 227-2795. For reseller information outside the United States, contact the local Radius International Distributor or write to

Radius Inc.  
International Sales Department  
1710 Fortune Drive  
San Jose, CA 95131-1744 USA

If you are experiencing problems, need answers to technical questions, or need information about product updates, you should contact your Radius Authorized Reseller for assistance. If you have a problem, be sure that you have reviewed the steps outlined in the *General Troubleshooting Procedures* and *Troubleshooting for the Pivot Display* sections of this chapter and have completed the following form before contacting your reseller. This will expedite the diagnosis and correction of your problem.

Radius Product(s) \_\_\_\_\_

Serial Number(s) \_\_\_\_\_

RadiusWare Version \_\_\_\_\_

Radius ROM Version \_\_\_\_\_

Macintosh Configuration \_\_\_\_\_

System Version \_\_\_\_\_

Finder Version \_\_\_\_\_

Other Peripherals \_\_\_\_\_

Applications (Versions) \_\_\_\_\_

INIT/CDEV Files Installed \_\_\_\_\_

If, after consulting with your Authorized Reseller, you need further assistance, contact Radius Customer Support at (408) 434-1012, Monday through Friday, 7:30 a.m. to 5:00 p.m., Pacific Time.

Radius Customer Support can also be contacted via the following on-line information services:

| <i>Service</i>    | <i>Address</i> |
|-------------------|----------------|
| AppleLink         | RADIUS.TECH    |
| CONNECT           | RADIUS         |
| (formerly MacNET) |                |
| CompuServe        | 76004,2155     |

## ***Appendix A: System Software Requirements***

RadiusWare requires the use of Apple's System Software version 6.0.5 (or later). In addition, if you wish to operate the Radius DirectColor Series at more than 8 bits per pixel, you must also install Apple's 32-Bit QuickDraw™ version 1.2 (or later), included on your Apple System disks. It can be installed into your System Folder by running the Apple Installer program.

Radius also recommends installing 32-Bit QuickDraw if you are using a Pivot display.

If you have a Macintosh LC, IIsi, IICI, or IIfx, 32-Bit QuickDraw is already installed, in the Macintosh's read-only memory (ROM).

## **Appendix B: A/UX Compatibility**

The A/UX Operating System is Apple's implementation of AT&T's UNIX System V operating system. A/UX is supported on the Macintosh II family of computers and on the Macintosh SE/30.

All Radius display systems are compatible with Apple A/UX, versions 1.1 and 2.0. However, because RadiusWare and Soft Pivot are not compatible with A/UX, Pivot display systems exhibit the following limitations:

1. Monochrome and Color Pivot displays connected to Pivot interface cards will operate in only portrait orientation.
2. A monochrome Pivot connected to a Macintosh IIsi or IIfx built-in video port will operate in only portrait orientation.
3. A Color Pivot connected to a built-in video port *requires* Soft Pivot for both portrait and landscape operation and hence is not compatible with A/UX in this configuration.

Because RadiusWare is not compatible with A/UX, you will not be able to take advantage of its features.

### **Important:**

*Do not install RadiusWare or other Radius system software on the A/UX startup disk.*

## **Appendix C: Software License Agreement**

BY COMMENCING USE OF THIS PRODUCT YOU AGREE TO BECOME BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT.

This Radius product includes Radius Software (the “Software”) which is licensed, not sold, to you for use only under the terms of this Agreement, and Radius or its licensor(s) reserves any rights not expressly granted to you. You are responsible for the selection of the Software to achieve your intended results, and for the installation, use and results obtained from the Software. You own the media on which the Software is originally or subsequently recorded or fixed, but Radius and/or its licensor(s) retains ownership of all copies of the Software itself.

### **LICENSE**

You may:

- a. Use the Software on a single machine.
- b. For software distributed on magnetic media, copy the Software only for backup purposes, or to use it in conjunction with other software, in support of your use of the Software on the single machine, provided that you reproduce all copyright and other proprietary notices that are on the original copy of the Software provided to you. Any portion of the Software used in conjunction with another program will continue to be subject to the terms and conditions of this Agreement.
- c. Transfer the Software and all rights under this Agreement to another party together with a copy of this Agreement if the other party agrees to accept the terms and conditions of this Agreement. If you transfer the Software, you must at the same time either transfer all copies in any form to the same party or destroy any copies not transferred.

### **RESTRICTIONS**

You may not use, disclose, copy, modify, rent, lease, loan, resell, network or transfer the Software, or any copy, modification or merged portion thereof, in whole or in part, except as expressly provided for in this Agreement. Any attempt to transfer any of the rights, duties or obligations hereunder except as expressly provided for in this Agreement is void.

The Software contains trade secrets of Radius Inc. and to protect them you agree not to decompile, reverse engineer, disassemble or otherwise reduce the Software to a human perceivable form.

#### TERM

This Agreement is effective until terminated. You may terminate it at any time by destroying the Software together with all copies, modifications and merged portions in any form. This Agreement will immediately and automatically terminate without notice if you fail to comply with any term or condition of this Agreement. You agree upon termination to promptly destroy the Software together with all copies in any form.

#### GOVERNMENT LICENSEE

If you are acquiring the Software on behalf of any unit or agency of the United States Government, the following provisions apply:

The Government acknowledges Radius' representation that the Software and its documentation were developed at private expense and no part of them is in the public domain.

The Government acknowledges Radius' representation that the Software is "Restricted Computer Software" as that term is defined in Clause 52.227-19 of the Federal Acquisition Regulations (FAR) and is "Commercial Computer Software" as that term is defined in Subpart 227.471 of the Department of Defense Federal Acquisition Regulation Supplement (DFARS). The Government agrees that:

- (i) if the Software is supplied to the Department of Defense (DoD), the Software is classified as "Commercial Computer Software" and the Government is acquiring only "restricted rights" in the Software and its documentation as that term is defined in Clause 52.227-7013(c)(1) of the DFARS, and
- (ii) if the Software is supplied to any unit or agency of the United States Government other than DoD, the Government's rights in the Software and its documentation will be as defined in Clause 52.227-19(c)(2) of the FAR.

#### EXPORT LAW ASSURANCES

You acknowledge and agree that the Software is subject to restrictions and controls imposed by the United States Export Administration Act (the "Act") and the regulations thereunder. You agree and certify that neither the Software nor any direct product thereof is being or will be acquired, shipped, transferred or re-exported, directly or indirectly, into any country prohibited by the Act and the regulations thereunder or will be used for any purpose prohibited by the same.

#### GENERAL

This Agreement will be governed by the laws of the State of California, except for that body of law dealing with conflicts of law.

Should you have any questions concerning this Agreement, you may contact Radius by writing to Radius Inc., 1710 Fortune Drive, San Jose, CA 95131-1744.

You acknowledge that you have read this Agreement, understand it and agree to be bound by its terms and conditions. You further agree that it is the complete and exclusive statement of the agreement between us which supersedes any proposal or prior agreement, oral or written, and any other communications between us in relation to the subject matter of this Agreement.

## **Appendix D: Radius Warranty**

### **LIMITED WARRANTY ON RADIUS MEDIA AND WARRANTY DISCLAIMER FOR RADIUS SOFTWARE**

**What is covered:** This warranty covers physical defects in the manuals distributed with Radius software and the media on which Radius software is distributed, but does not cover the software itself.

**Who is covered:** You, as the original purchaser of this Radius product, are covered under this warranty. If you sell or give this product to someone else, that person will also be covered under this warranty.

**For how long:** One year from the original purchaser's date of purchase.

**What we will do:** Replace the defective manuals or media, without charge.

**What we will not do:** Pay inbound shipping, transportation or insurance charges, or accept responsibility for loss or damage in transit.

**What you must do:** Return the defective product, all transportation and insurance charges prepaid, to an Authorized Radius Reseller within the country of original retail purchase. Please include your name, address, telephone number, a description of the problem and a copy of a bill of sale bearing a Radius serial number as proof of original retail purchase. If you do not know the location of an Authorized Radius Reseller in your area, please contact Radius at the address listed at the back of this manual.

**Other Conditions of Media Warranty:** THIS WARRANTY IS IN LIEU OF ALL WARRANTIES, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. ANY IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF PURCHASE OF THIS PRODUCT. IN NO EVENT WILL RADIUS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY, EVEN IF RADIUS HAS

BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OF IF THIS WARRANTY IS FOUND TO FAIL ITS ESSENTIAL PURPOSE.

Disclaimer of Software Warranty: THIS WARRANTY DOES NOT APPLY TO RADIUS SOFTWARE. RADIUS SOFTWARE IS PROVIDED "AS IS" AND RADIUS MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO RADIUS SOFTWARE, ITS QUALITY, PERFORMANCE, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE. BECAUSE THIS SOFTWARE IS PROVIDED "AS IS," YOU ARE ASSUMING THE ENTIRE RISK AS TO ITS PERFORMANCE. RADIUS DOES NOT WARRANT THAT THE FUNCTIONS PERFORMED BY THE SOFTWARE WILL MEET YOUR REQUIREMENTS OR BE UNINTERRUPTED OR ERROR-FREE. SHOULD THE SOFTWARE BE DEFECTIVE OR NOT MEET YOUR NEEDS, YOU (AND NOT RADIUS) ASSUME THE ENTIRE COST OF CORRECTION OR REPLACEMENT. IN NO EVENT WILL RADIUS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY, RESULTING FROM ANY DEFECT IN THE SOFTWARE OR ITS DOCUMENTATION, EVEN IF RADIUS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

APPLE COMPUTER, INC. ("APPLE") MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE APPLE SOFTWARE. APPLE DOES NOT WARRANT, GUARANTEE OR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE USE OF THE APPLE SOFTWARE IN TERMS OF ITS CORRECTNESS, ACCURACY,

RELIABILITY, CURRENTNESS OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE APPLE SOFTWARE IS ASSUMED BY YOU. THE EXCLUSION OF IMPLIED WARRANTIES IS NOT PERMITTED BY SOME STATES. THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

IN NO EVENT WILL APPLE, ITS DIRECTORS, OFFICERS, EMPLOYEES OR AGENTS BE LIABLE TO YOU FOR ANY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, AND THE LIKE) ARISING OUT OF THE USE OR INABILITY TO USE THE APPLE SOFTWARE EVEN IF APPLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. Apple's liability to you for actual damages from any cause whatsoever, and regardless of the form of the action (whether in contract, tort (including negligence), product liability or otherwise), will be limited to \$50.

**Warning:**

TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE THE COVER OF ANY RADIUS DISPLAY. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Radius, the Radius logo, RadiusWare, Radius Pivot, Radius Soft Pivot, Radius Full Page Display (FPD), Radius Two Page Display (TPD), and Radius DirectColor are trademarks of Radius Inc. Apple and the Apple logo are registered trademarks of Apple Computer, Inc. Other brand and product names are trademarks or registered trademarks of their respective holders.

Copyright © 1991 Radius Inc. All Rights Reserved. Radius products contain certain trade secrets and confidential and proprietary information of Radius Inc. Use, reproduction, disclosure and distribution by any means are prohibited, except pursuant to a written license from Radius Inc. Use of copyright notice is precautionary and does not imply publication or disclosure.

Restricted Rights Legend

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c) (1) (ii) of the Rights in Technical Data and Computer Software clause at DFARS 52.227-7013. Unpublished — rights reserved under the copyright laws of the U.S.

RADIUS INC.  
1710 Fortune Drive  
San Jose, CA 95131-1744  
(408) 434-1010

Printed in the United States  
**3/91**

**PART #: 000-0412**

# Index

## A

- About... button 13
- Auto-centering dialog boxes 25
- Auto-lowering windows 25

## B

- Big Boundaries 32
- Bit depth changer 19, 22
- Blue screen 43
- Built-in video
  - memory allocated by 40
- Built-in video port
  - and Color Pivot 43, 45
  - and Soft Pivot 39

## C

- Capturing a screen 19
- Changing bit depth 19, 22
- Changing memory allocation 41
- Choosing a main display 9
- Choosing the number of colors or shades of gray 4
- Closing menus 16
- Color
  - memory allocated for 40
- Color menus
  - and Radius Color Display 17
- Color Pivot
  - and built-in video port 43, 45
  - and Soft Pivot 39
  - changing screen resolution 45
  - Soft Pivot support for 43
- Colors
  - defining to the display 3
  - number of 4
  - with multiple displays 7

## Control Panel

- use in defining display characteristics 3

## Cursor

- locating 22

## Customer support and service 52

## D

### Defining your display's characteristics

- colors & grays 3
- number of 4
- multiple displays 7

### Desktop pattern

- changing 5
- selecting 5

### Dialog box 34

- (illustration) 35
- and tear-off menus 16
- effects on rotating Pivot Display 34
- specifying alternatives in Special Settings 31

### Disabling the Dynamic Desktop

- top 29, 34, 35

### Display

- secondary 8

### Display (number 2) 8

### Displays

- multiple
  - defining display characteristics of 7
  - selecting a desktop pattern 5
  - setting alignment 8
- Display characteristics
  - colors & grays 3
  - number of 4
  - multiple displays 7

Displaying Radius Information  
box 13

Displaying Radius ROM ver-  
sion 13

Dynamic Desktop 28, 38  
disabling 29, 34, 36

## E

Enlarged Menu Font 14, 25

## F

Finder Cleanup 29

## G

Grays 3  
affects of memory allocation  
on 40  
defining to the display 3  
memory allocated for 40  
number of 4  
with multiple displays 7

## I

Identify button  
and multiple displays 8  
Installing RadiusWare 1  
Interface card 1, 45

## K

Keyboard shortcuts  
changing bit depth 22  
locating a lost cursor 22

## L

Locating a lost cursor 22

## M

MacPaint  
and screen captures 20  
Main display  
choosing 9  
Master Switch 12  
deactivating RadiusWare  
features 12  
Memory  
changing 40

Memory allocated by built-in  
video 40

Memory allocated for colors/  
grays 40

Memory allocated for landscape  
orientation 42

## Menus

and MultiFinder 17  
and Radius Color Display 17  
closing 16  
enlarging the font of 14  
tear-off  
and dialog boxes 16  
moving a menu from a color to  
a black-and-white dis-  
play 17  
repositioning 15

## Monitors Control Panel

(illustration) 3  
choosing a main display 9  
choosing colors/shades 4  
Identify button 8

## Monitors icon

use in defining display characteris-  
tics 3

Moving a menu from a color to a  
black-and-white display 17

## MultiFinder

and Finder Cleanup 29  
and tear-off menus 17

## Multiple displays 7

defining display characteristics  
of 7  
selecting icon 8  
setting alignment 8  
setting colors or grays 7

Multiple Monitor Control Panel  
(illustration) 7

## P

Page 2 of the Radius Control  
Panel 21, 27

Page 3 of the Radius Control  
Panel 23, 30

- PICT2 files
  - and screen captures 19
- Pivot
  - applications that hide menu bar 35
  - zooming windows 38
- Pivot Control Panel
  - second page 21, 27
- Pivot display
  - setting features specific to 27
- Prolonging the life of your display
  - screen 18

## R

- Radius Color Display
  - and color menus 17
  - selecting a desktop pattern 5
- Radius Control Panel
  - (illustration) 12
  - About... button 13
  - accessing 11
    - Page 2 21, 27
    - Page 3 23, 30
  - Auto-Centering 25
  - Auto-Lowering 25
  - Enlarged Menu Font 14
  - Finder Cleanup 29
  - Master Switch 12
  - Screen Capture 19
  - Screen Saver 18
  - second page (illustration) 21, 28
  - Special Settings 24
  - Tear-off Menus 14
    - third page (illustration) 23, 30
- Radius Customer Support 53
- Radius Information box
  - displaying 13
- Radius ROM version number 13
- RadiusWare
  - installing 1
- Registration card v
- Repositioning tear-off menus 15
- Rotating the Pivot Display
  - as one of several displays 38
  - restrictions on 34

## S

- Screen Capture 19
- Screen dump 19
- Screen Saver 18
- Secondary display 8
- Selecting a desktop pattern 5
- Setting display alignment 8
- Soft Pivot 1, 39, 42
  - disabling 42
  - installing 1, 39
  - support for Color Pivot 43
- Software License Agreement 56
- Special Settings 24
- Systems with several displays 7

## T

- Tear-off Menus 14
  - and dialog boxes 16
  - and incompatibility 17
  - and MultiFinder 17
  - and Radius Color Display 17
  - closing 16
  - moving a menu from a color to a black-and-white display 17
  - repositioning 15
- Troubleshooting 49
  - blue screen 43

## U

- Using a Radius Color Display 5
- Using multiple displays 7

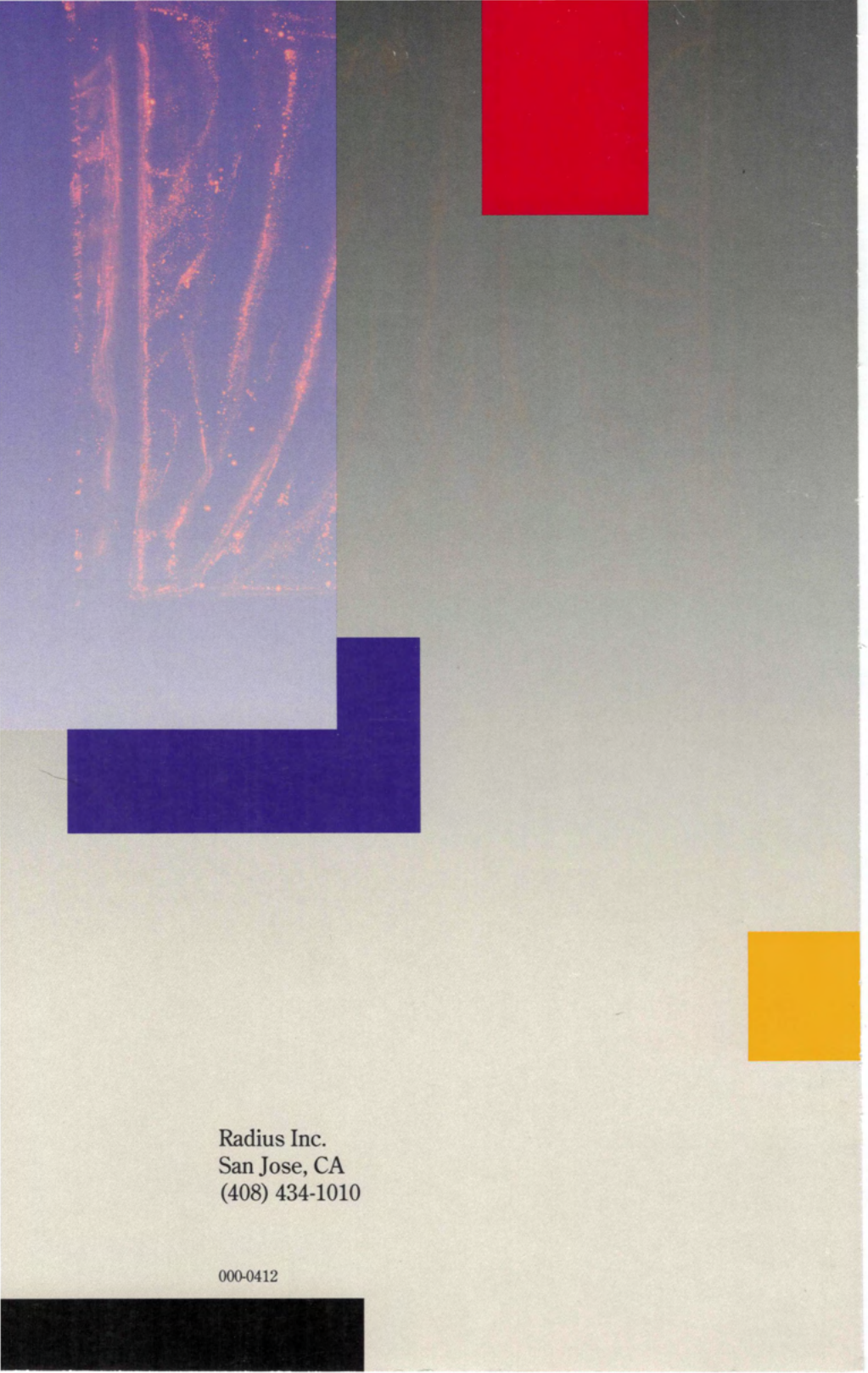
## W

- Warranty 59
- Window without a close box 35
- Working with a large display 22

## Z

- Zooming windows 38





Radius Inc.  
San Jose, CA  
(408) 434-1010

000-0412

