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RadiusWare User's Manual
For the Radius Full Page Display

April, 1991

Radius Inc.
San Jose, CA

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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.

This manual contains the operating and installation instructions for the version of RadiusWare included with the Full Page Display for the Macintosh Classic, SE, LC, SE/30, and the Macintosh II family of computers.

Two chapters which describe how to use RadiusWare to control the functions of the Full Page Display, depending on the type of Macintosh you are using with the display. Chapter 2 explains how to use RadiusWare with the Macintosh LC, SE/30, and Macintosh II family of computers. Chapter 3 explains how to use RadiusWare with the Macintosh Classic and Macintosh SE computers.

Before installing RadiusWare, make sure the interface card for the Full Page Display is properly installed in your Macintosh, and that the Full Page Display is properly positioned and connected to the Macintosh. For the Macintosh Classic, SE, and SE/30, the interface card must be installed by an authorized Apple Service Provider. For other Macintosh computers, you can install the interface card using the installation instructions in the installation guide provided with the interface card.

Instructions for unpacking, positioning, and cabling your Radius display are in the *Radius Full Page Display 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 four chapters and includes a table of contents and an index.

- Chapter 1.....*Installing RadiusWare* 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 for the Macintosh LC, SE/30, and Macintosh II Family* explains the controls and features available when RadiusWare is used with these computers.
- Chapter 3.....*RadiusWare Features for the Macintosh Classic and SE* explains the controls and features available when RadiusWare is used with these computers.
- Chapter 4.....*Reference* contains a troubleshooting section, as well as customer service and product line information.

Important:

The features and operation of RadiusWare when used with the Macintosh Classic and Macintosh SE are slightly different from when RadiusWare is used with other Macintosh computers. Make sure that you refer to the chapter of this manual which corresponds to the type of Macintosh you have.

Chapter 1

Installing RadiusWare

This chapter explains how to install RadiusWare into the System Folder on your startup disk.

If you use more than one startup disk, RadiusWare must be installed onto each disk (except for disks with the A/UX operating system; see *Appendix B*). Depending on the type of Radius display system you have, the Installer program may 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 Full Page Display User's Manual* for the complete procedures on how to install your Radius display system.

Important:

You should be using Macintosh System Software Version 6.0.7 (or higher). RadiusWare may not operate properly with earlier versions. Refer to Appendix A for more information about Macintosh System Software.



Read Me

Important:



Installing RadiusWare Files

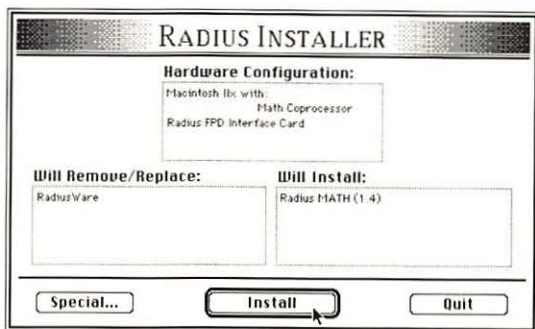
The RadiusWare files required to operate your Full Page Display appear on the RadiusWare diskette which is included with the Full Page Display.

To install RadiusWare,

1. If you are using an external hard disk drive with your system, turn it on. Next, turn on the power for the Macintosh and the display.
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 files folder to display its contents, and then double-click on the *Read Me* file to display notes about installing RadiusWare for your particular display system.

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. Double-click on the Installer application on the RadiusWare diskette to launch the Installer. In a moment, the Installer dialog box will appear, as shown in the following diagram:



The Installer dialog box

8. The Installer will automatically identify the type of Macintosh you are working with, as well as the type of Radius interface card(s) installed in the Macintosh.

Click on the Install button. The Installer automatically installs the appropriate files into the System Folder of your startup disk.

9. When the RadiusWare files have been successfully installed, a dialog box will appear as shown in the following diagram:



Click on the Restart button.

RadiusWare installation is now complete. Store the RadiusWare diskette in a safe place in case it is needed for a future installation.

Chapter 2

RadiusWare Features

For the Macintosh LC, SE/30, and II Family

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 that can be used with the Radius Full Page Display. The features described in this chapter only apply to RadiusWare used in conjunction with a Macintosh LC, SE/30, or Macintosh II family computer.

If you are working with a Macintosh Classic or Macintosh SE, refer to Chapter 3 for information about using RadiusWare.

Setting Up Using the Monitors Control Panel

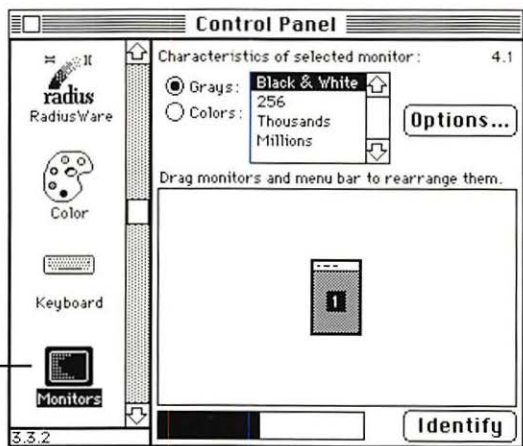
Before selecting any RadiusWare features, you should first define certain characteristics of the Radius display you will be connecting to your Macintosh. All of these characteristics can be set by selecting the Monitors icon from the Control Panel in the apple (🍏) menu. For more information, refer to 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. When you click on the Monitors icon, the Monitors Control Panel will appear as shown in the following diagram:

Click on the Monitors icon to open the Monitors Control Panel



The Monitors Control Panel

Choosing Colors or Grays

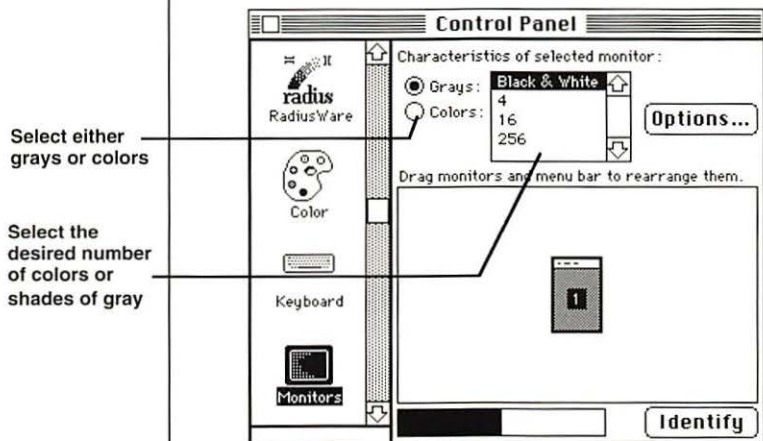
For the best on-screen resolution, you will need to define the color capabilities of the display you are connecting to your Macintosh.

If you have a single monochrome display (like the Radius FPD), choose Grays. If you have a color display connected in addition to the FPD, choose Colors. With a color display, you may find it 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).

- Radius Full Page Displays connected to the built-in video port on the Macintosh will display up to 16 shades of gray.
- The Radius FPD and TPD interfaces offer only the black-and-white choice.
- The Radius Pivot interfaces will display up to 256 shades of gray.
- The Radius GS/C interfaces will display up to 256 shades of gray.





General

Selecting the Desktop Pattern and Color

1. Click on the General icon 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).

In addition to setting the desktop pattern, you can also set the “color” which will be used for the pattern. Note that the Full Page Display is monochrome and can only display black-and-white or shades of gray. Therefore, in the case of the Full Page Display, the “color” you define will actually be a shade of gray.

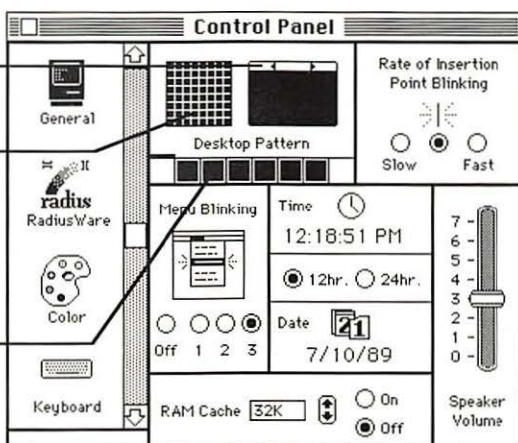
To change the color of the desktop,

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 (left panel), click on the pixels that you want to change.

Scroll through the color choices by clicking here

Magnified pattern box

Double-click on a color box to open the color wheel



3. Click on the miniature desktop pattern panel (right panel) to activate the new pattern. The new desktop pattern will immediately appear and be used when the Macintosh is restarted.

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,

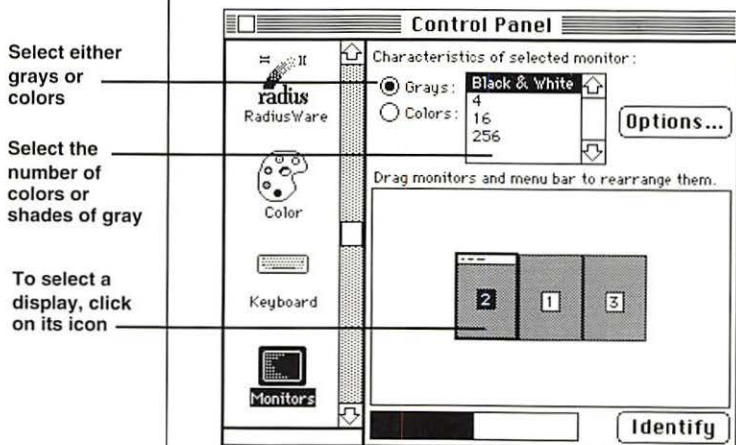
1. Click on the Monitors icon in the Control Panel, as described in the previous section.
2. Click on the icon that represents the display you wish to configure, which will highlight the icon's border.



Monitors

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: three displays connected to a Macintosh II

NOTE:

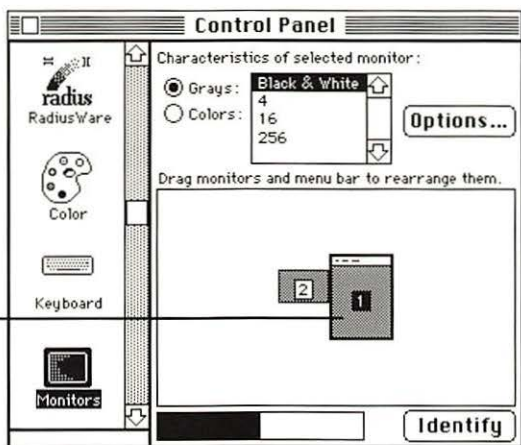
With a multiple display system, clicking on the Identify button in the Monitors Control Panel will display a number on each screen corresponding to the numbered icons.

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.



Setting display alignment

3. Repeat this process for each of the monitor icons, until the positions of the icons match the position of your displays.
4. Choose 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 does not, 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.

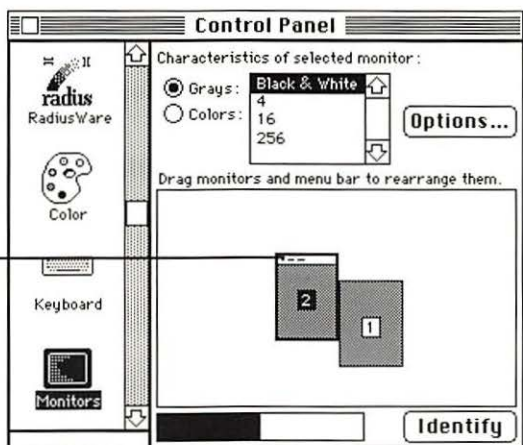
Choosing a Main Display

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 up your system 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. Choose Restart from the Special menu to activate the new main display designation.

Drag the miniature menu bar to the icon of the main display



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.

Selecting the RadiusWare Features

Once you have made the settings described in the previous sections of this chapter, you are ready to work with RadiusWare. The remainder of this chapter describes how to use the RadiusWare features which are available for the Macintosh LC, SE/30, and Macintosh II family computers.

NOTE:

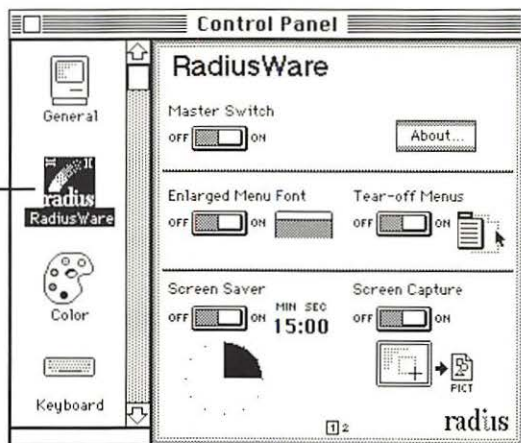
The default setting is ON for all RadiusWare features, except when otherwise noted.

To access the Radius Control Panel,

1. Choose Control Panel from the apple () menu.

2. Select the RadiusWare icon from the left side of the Control Panel. (You may need to scroll through the icons to locate the RadiusWare icon.)

Click here to access the Radius Control Panel

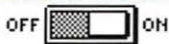


Radius Control Panel

Important:

Changes to some RadiusWare features do not take effect immediately and require you to restart the Macintosh. If this is the case, an alert box will appear in the Radius Control Panel, prompting 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.

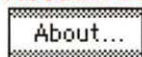
To use the Master Switch to deactivate all RadiusWare features,

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

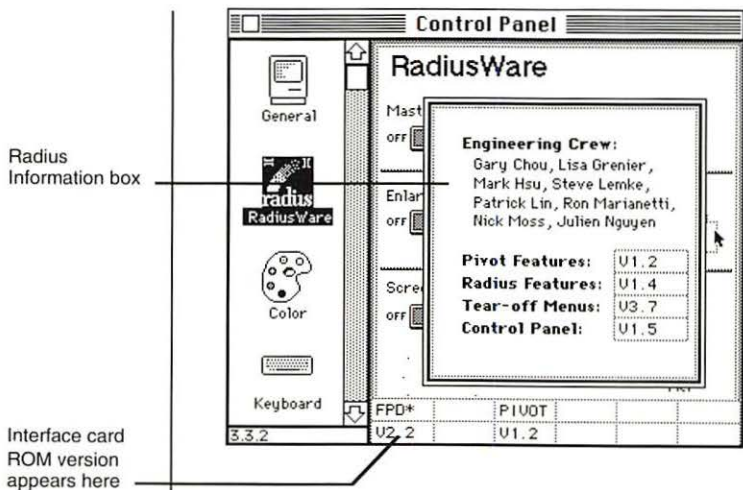


The About... button displays important information regarding your Radius display system.

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.

When selected, the About button will produce a special screen, as shown in the following diagram.



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 Menu



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,

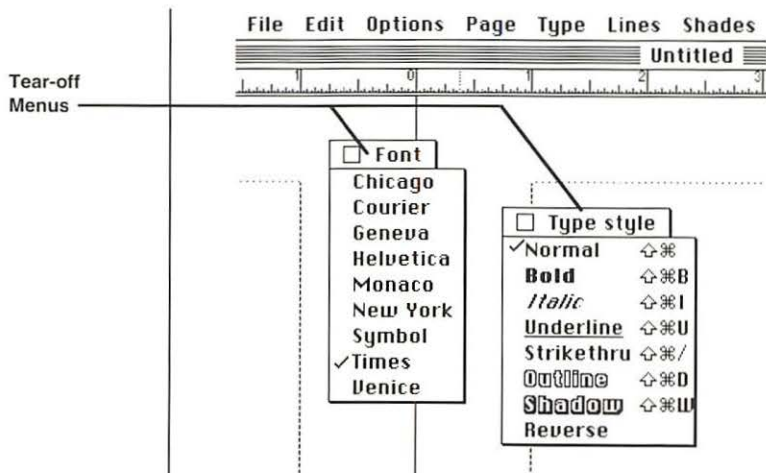
- Click the Tear-off Menus switch to the ON position.

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 Menu switch to the OFF position. The Tear-off Menu option takes effect immediately. You do not need to restart your Macintosh.

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 Apple 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.

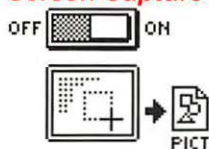
To set the Screen Saver,

- 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 ⌘ -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 ⌘ -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 x 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 ⌘-Shift-3 will now give you the standard MacPaint screen capture, as provided by the Macintosh System Software.

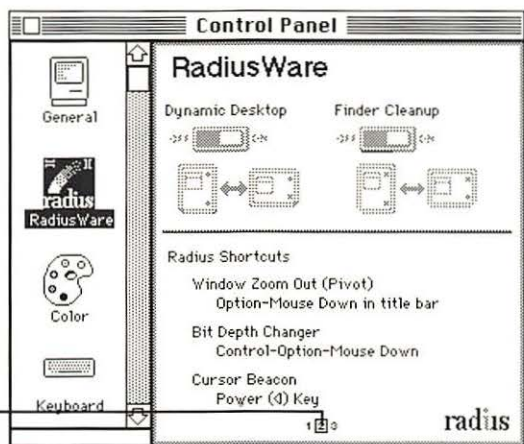
The Second Page of the Radius Control Panel

The second page of the Radius Control Panel contains features specific to the dual-orientation capability of the Radius Pivot display, but also illustrate some keyboard shortcuts for the Radius Full Page Display.

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



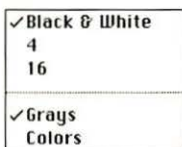
Page 2 of the Radius Control Panel

The Pivot-specific functions, Dynamic Desktop and Finder Cleanup, are 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 Pivot displays. The other shortcuts are discussed in the following sections.

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.



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 will appear gray if you do not have a Pivot display.

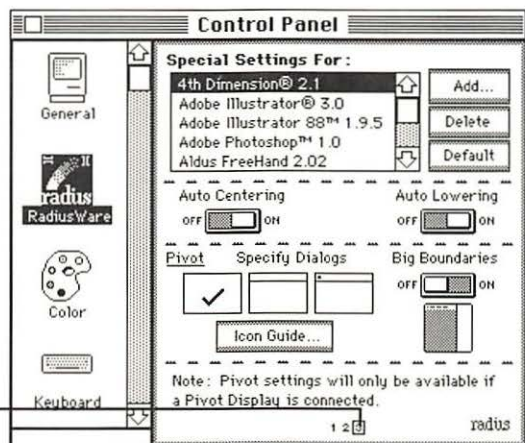
Important:

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,

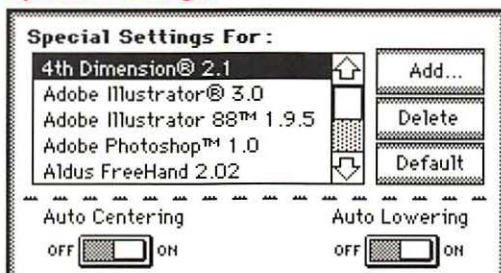
- Click on the Page 3 button in the lower central portion of the Radius Control Panel.

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.

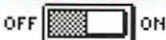
3. Locate the application you wish to add and click on the Add button. Your application will now appear in the Special Settings list.

The Delete button is used to delete an application from the Special Settings list. The Default button restores the default settings for the applications that were preconfigured by Radius. The Default button is inactive for any customized applications that you have added to the list.

NOTE:

If you have renamed an application in the preconfigured list, you do not need to add it. RadiusWare recognizes preconfigured 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.

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 shades of gray. Radius strongly recommends at least 2MB of memory when using a Radius display connected to the Macintosh's built-in video port.

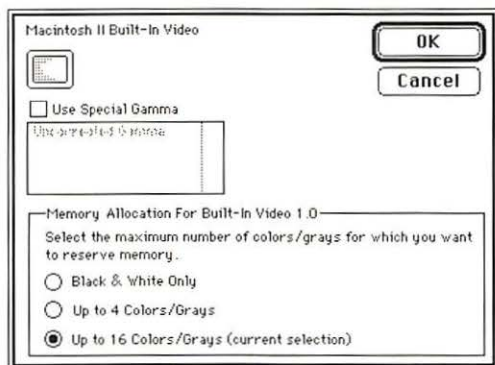
The memory available to display shades of gray depends on the total memory in your system, the size of your System file, and the size and number of the applications you wish to run, among other things.

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. Click on the Options button. The Monitor Options dialog box will appear as shown in the following diagram.



The Monitors Options dialog box

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.

Chapter 3

RadiusWare Features

For the Macintosh Classic and Macintosh SE

RadiusWare for the Macintosh Classic and SE includes a number of features that are designed to enhance your productivity when working with a Radius display. You can set these features from the Control Panel. All of the choices made from the Control Panel are stored in non-volatile memory and will remain in effect until changed.

The implementation of the Radius Control Panel varies slightly between some Radius products. The following features apply to only the Macintosh Classic and SE.

Important:

Once the RadiusWare INIT file has been installed in the System Folder of the startup disk, the Macintosh will always assume that the Radius FPD is connected to the system (the FPD interface card cannot sense the presence of the display).

If you wish to use the Macintosh without the FPD connected to the system, hold down the ⌘ key on the keyboard and the mouse button when starting the Macintosh.

NOTE:

For all of the RadiusWare features described in this chapter, the default setting is “ON” except when otherwise noted.

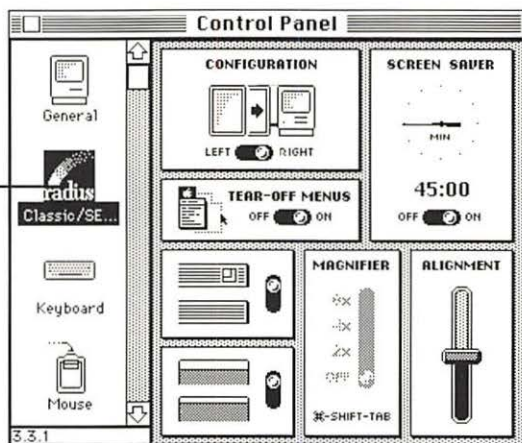
To access the Control Panel,

- Choose Control Panel from the apple (🍏) menu after you have started the Macintosh.

To access the Radius Control Panel,

- Click the RadiusWare icon. If necessary, use the scroll bars to find the Radius icon. The Radius Control Panel will appear as shown in the following diagram.

Click here to access the Radius Control Panel

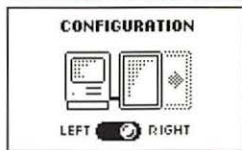


Radius Control Panel

Important:

Changes to some RadiusWare features do not take effect immediately and require you to restart the Macintosh. If this is the case, an alert box will appear in the Radius Control Panel, prompting you to restart the Macintosh.

Setting the Display Configuration



The Configuration icon in the Radius Control Panel allows you to:

- Determine which displays will be active.
- Determine the placement of the Radius display with respect to your Macintosh.

In addition, you can select the FPD Wide Display Option if you are using a Full Page Display in conjunction with a Macintosh SE. This option is covered in detail later in this chapter.

Choosing the Active Display

Radius displays are designed to work in concert with your Macintosh Classic or SE screen, which serves as an ideal place for Tear-off Menus, tool palettes, and desk accessories. The two displays function as a single unit. Moving from screen to screen is as easy as moving the mouse.

Most of the time, you will want to have both the Radius display and the Macintosh screen active. In some situations, you may wish to use only the Radius display. For instance, desk space constraints may require you to place the Macintosh away from your Radius display where you cannot see the Macintosh screen. In this case, deactivating the Macintosh display will prevent the cursor from inadvertently being lost on that screen.

To select your active display(s),

1. Click on the Macintosh and Radius icons to activate or deactivate each display. Highlighted icons will become active. Grayed icons will become inactive.
2. Launch a new application (in Finder) or restart your computer (in MultiFinder) to activate any changes you have made.

You will also deactivate the Macintosh screen if you are using the Magnifier feature provided by RadiusWare.

Display Placement

To indicate which side of the Macintosh and Radius displays will serve as the common border, you must indicate in the Control Panel whether the Radius display is to the left or the right of the Macintosh.

To select the proper position,

1. Click the LEFT/RIGHT switch in the Radius Control Panel. The icons will change places when you click the switch.
2. Launch a new application (in Finder) or restart your computer (in MultiFinder) to activate any changes you have made.

NOTE:

Remember to change this setting if you move the Macintosh from one side of the Radius display to the other.

Display Alignment

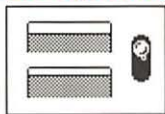


Before you drag windows or move the cursor across both screens, you may need to change the relative alignment of the Macintosh and Radius displays. When the screens are properly aligned, the cursor will move evenly across the contiguous boundary when it appears on the other screen.

To align the Macintosh and Radius displays,

1. Move the cursor to the alignment slider and hold down the mouse button. A short horizontal bar will appear on both the Macintosh and Radius display screens.
2. Drag the slider up or down to move the bar on the Radius display until it lines up with the bar on the Macintosh screen.
3. Launch a new application (in Finder) or restart your computer (in MultiFinder) to activate this change.

Enlarged Menu Font

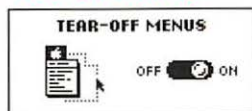


RadiusWare provides the option of displaying an enlarged menu font that enhances readability on a larger screen. Menus are displayed in either a larger size (16-point type; ON) or the regular Macintosh size (12-point type; OFF).

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 Menu



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.

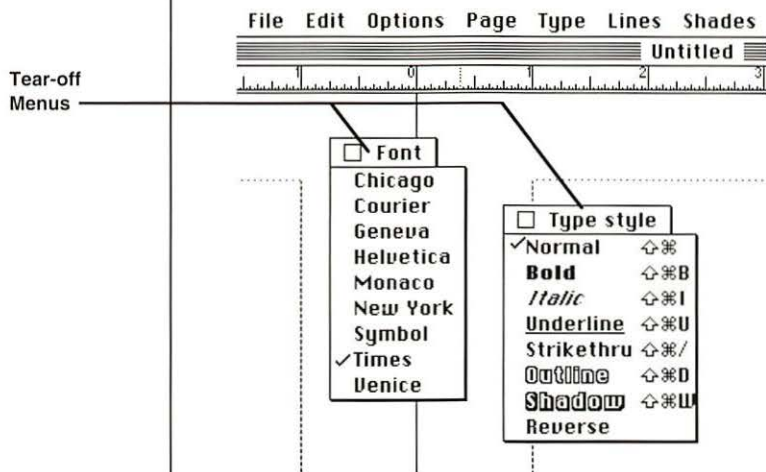
To tear a menu off,

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

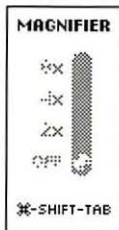
If any incompatibility with Tear-off Menus is suspected, click the Tear-off Menu switch to the OFF position. The Tear-off Menu option takes effect immediately. You do not need to restart your Macintosh.

Tear-off Menus and MultiFinder

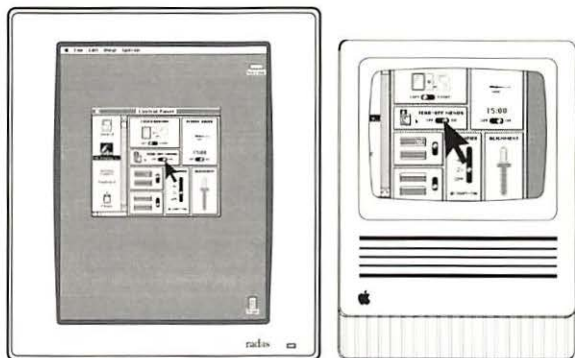
Under MultiFinder, you can tear menus off as usual. When switching between applications, menus of the current application replace those of the former application. Menus of only one application will appear at a time. The  menu must be torn off in each application. If you turn Tear-off Menus off

from the Radius Control Panel, Tear-off Menus in all open applications will be closed.


Magnifier



The RadiusWare Magnifier feature allows you to show a selected area of your Radius display as an enlarged image on the Macintosh Classic/SE screen. The active area of the Radius display (determined by the location of the cursor) may be magnified 2, 4, or 8 times on the Macintosh Classic/SE screen.



To magnify your Radius display on the Macintosh Classic/SE screen,

1. Open the Control Panel from the  menu and select the Radius Control Panel icon.

2. Click on the Macintosh icon in the Configuration box so that it becomes grayed. The Radius display icon should be highlighted.
3. Launch a new application (in Finder) or restart the Macintosh (in MultiFinder) to activate any changes you have made.
4. Open the Radius Control Panel again.
5. Click on 2x, 4x, or 8x in the Magnifier box to set your magnification level.

You can activate the magnification levels directly from the keyboard by pressing \mathbb{C} -shift-tab. This key sequence will toggle through all magnification levels, including the setting that disables the Macintosh Classic/SE screen, when the Macintosh icon is grayed in the Configuration box. Press \mathbb{C} -shift-tab to move to the next magnification level.

Screen Saver



When Screen Saver is turned on, all displays connected to the system will darken after the specified period of time. This reduces the possibility of damaging 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 any key on the keyboard will restore the screen to its original image.

To activate Screen Saver,

- Click on the Screen Saver OFF/ON switch in the Radius Control Panel to turn it on.

The Screen Saver period can be set in a variety of ways.

- Position the cursor on the hand of the clock face and drag the hand to the desired time. The hand will indicate the screen saver period.
- Change the time digitally by clicking on the minutes digits or seconds digits and entering the desired time from the keyboard.
- If the minutes or seconds digits are selected, change the time with the two arrows that appear to the right of the digital time. Click on these arrows until the desired time is selected.

To deactivate Screen Saver,

- Click the switch to OFF. The icon and numbers will be grayed.

NOTE:

The default setting for the period of time before the Screen Saver feature is activated is 15 minutes.

Screen Capture

At times you may want to capture an image on your screen. The Screen Capture feature lets you save a portion of the screen as a MacPaint document. (Due to limitations of MacPaint and other bitmap programs, only a 576 x 720 bitmap — the size of the rectangle that will appear on the screen —

can be saved. However, RadiusWare allows you to move this rectangle to determine which part of the display image you want to save as a MacPaint document.)

To create a Screen Capture,

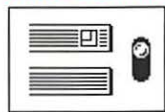
1. Hold down the ⌘-Shift-3 keys. A rectangle will appear on the screen.
2. Without pressing the mouse button, move the mouse to position the rectangle on the area of the screen you wish to capture.
3. Click the mouse button. A MacPaint file (containing the data within the rectangle) will be created.

To cancel a Screen Capture before selecting an area,

- Press ⌘-Period.

Once captured, a standard "Save As..." dialog box appears, which allows you to rename each Screen Capture file and save it to the desired folder directory or disk. If you hear a beep after double-clicking, the screen capture was not successful. The screen capture may be too large for the available memory or disk space in your system.

Auto Zoom Boxes



The zoom box lets you change window size without dragging the window grow box each time. When the window is smaller than a full screen, clicking in the zoom box will enlarge the window to fill the entire screen. When the window is full sized, clicking on the zoom box will return it to the size it was the last time you resized it by dragging the grow box in the

lower right-hand corner. The RadiusWare auto zoom feature also enables you to zoom windows from the Radius screen to the Macintosh screen, and vice versa.

To zoom a window from one display to the other,

- Hold down the ⌘ key while clicking in the zoom box.

To disable the auto zoom box feature,

1. Click on the lower title bar icon or corresponding switch.
2. Restart your Macintosh to activate this change.

To enable the auto zoom box feature,

1. Click on the upper title bar icon with the zoom box or corresponding switch.
2. Restart your Macintosh to activate this change.

Wide Display Option (Macintosh SE Only)

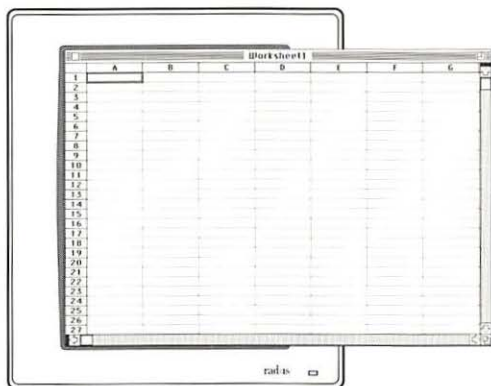


NOTE:

The Wide Display Option feature is only available on a Radius Full Page Display (FPD) connected to a Macintosh SE. If you do not have an FPD interface installed in your Macintosh SE, this section of the Radius Control Panel will not appear.

The physical area of the FPD is designed to display an 8 1/2 x 11 inch or A4 page. With the Wide Display Option, you can increase the *virtual* size of the FPD screen so that it is wider than the *physical* size of the FPD screen.

When the Wide Display Option is on, you have immediate access to more information (without resizing windows) simply by moving the cursor to the edge of your screen in the appropriate direction. The area displayed will slide over to reveal the rest of the desktop.



You will find the Wide Display Option helpful when you are working with spreadsheets, or when you use applications in which you want to have more than one window open at a time (page layouts, for example).

NOTE:

The default setting for the Wide Display Option is OFF.

To use the FPD Wide Display Option,

1. Click on the screen extension icon to the right of the FPD icon.

The screen extension icon to the right of the FPD icon will be highlighted if the Wide Display Option is on and grayed if it is turned off.

2. Restart your Macintosh to activate this change.

Using the Wide Display Option

When the Wide Display Option is active and you first start your system, the desktop will be sized wider than the size of the FPD screen. In the Finder, you will not be able to see the icons at the far right of the desktop. When you open a document, it will frequently appear sized to the dimensions of the wider desktop. Therefore, the vertical scroll bars may not be visible.

NOTE:

The Wide Display Option feature is only available on a Radius Full Page Display (FPD) for the Macintosh SE. If you do not have an FPD interface installed in your Macintosh SE, then this section of the Radius Control Panel will not appear.

To view the part of the desktop that is not displayed on the screen,

- Move the cursor to the edge of the screen. The visible area of the display will slide across smoothly and quickly to reveal the other edge.

To slide across the display using the keyboard,

- Hold down the ⌘ key while pressing the right or left arrow key on the keyboard. The screen will slide across in 16 pixel steps as long as these keys remain pressed.

To quickly move from one edge of the desktop to the other,

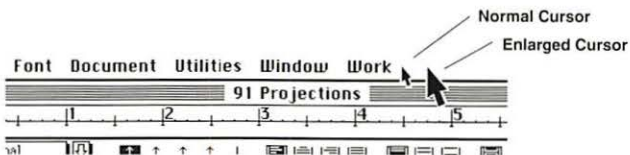
- Hold down both the ⌘ and option keys and press the right or left arrow key.

Cursor Size

RadiusWare provides an enlarged cursor in addition to the normal-sized default Macintosh cursor. Unlike most other features, the cursor size is not selected from the Radius Control Panel.

To change cursor size,

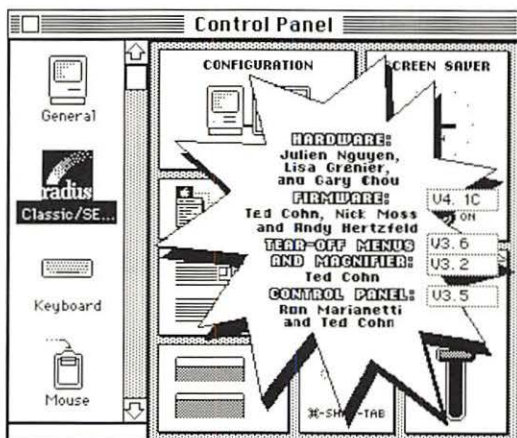
- Double-click in the white space to the right of the last item in the menu bar. The enlarged cursor will appear as shown in the following diagram.





Changing the Cursor Size

Displaying Information About RadiusWare

If you have questions or problems with your system, it will be helpful to know what Radius software and hardware versions you have.



To display information about RadiusWare,

1. Choose Control Panel from the  menu. The Apple Control Panel will appear.
2. Click on the Radius icon. The Radius Control Panel will appear.
3. Click on the miniature  icon in the Tear-off Menu icon. The version number of RadiusWare will be displayed.

Click the mouse button to close the information box.

Chapter 4

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 6.0.7 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. 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 or contact the Radius Software Update Hotline at (800) 654-2822.

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.

6. If you are working with a Macintosh Classic, once the RadiusWare INIT file has been installed in the System Folder of the startup disk, the Macintosh will always assume that the Radius FPD is connected to the system (the FPD interface card cannot sense the presence of the display).

In this case, you can deactivate the FPD to work with just the Macintosh by deactivating the RadiusWare INIT file during the startup process. To do this, hold down the \mathcal{H} key on the keyboard and the mouse button when starting the Macintosh.

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.

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 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 *Troubleshooting* section of this manual 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 Radius Authorized Reseller, you need further assistance, contact Radius Customer Support at (408) 434-1012, Monday through Thursday, 7:00 a.m. to 5:00 p.m., and Fridays 7:00 a.m. to 3:00 p.m., Pacific Standard 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
CompuServe	76004,2155

You can contact the Radius Software Update Hotline at (800) 654-2822 for a pre-recorded message describing the latest software revisions available for all Radius products.

The Family of Radius Products

- Radius TV™ System for the Macintosh II Family.
- Radius Pivot™ Display Systems for the Macintosh SE/30, LC, and II Family. For use with Macintosh built-in video or the Pivot interface.
- Radius Color Pivot™ Display Systems for the Macintosh SE/30, LC, and II Family. For use with Macintosh built-in video or the Pivot interface.
- Radius Full Page Display™ Systems for the Macintosh Classic, SE, SE/30, LC, and II Family. For use with Macintosh built-in video or the FPD interface.
- Radius Two Page Display™ Systems (TPD/19 & TPD/21) for the Macintosh SE, SE/30, and II Family. For use with the Two Page Display interface.
- Radius Gray Scale Display™ Systems for the Macintosh II Family.

- Radius Color Display™ Systems for the Macintosh II Family.
- Radius DirectColor/8™ Systems for the Macintosh II Family.
- Radius DirectColor/24™ Systems for the Macintosh II Family.
- Radius DirectColor/GX™ Systems for the Macintosh II Family.
- Radius Rocket™ Accelerator for the Macintosh II Family.
- Radius Accelerator 16™ and Radius Accelerator 25™ Systems for the Macintosh SE.
- Radius QuickColor™ Graphics Engine for the Macintosh II Family.
- Radius QuickCAD™ Graphics Engine for the Macintosh II Family.
- Radius PrecisionColor™ Calibrator for Radius 8-, 16-, and 24-bit display systems.
- Radius Two Page Display™ Systems for the PC.
- Radius ImpressIt™ Software for the Macintosh LC, SE/30, and Macintosh II Family

Appendix A: System Software Requirements

RadiusWare requires the use of Apple's System Software version 6.0.7 (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, IIfx, 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 portrait orientation only.
2. A monochrome Pivot connected to a Macintosh IIx or IIfx built-in video port will operate in portrait orientation only.
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.

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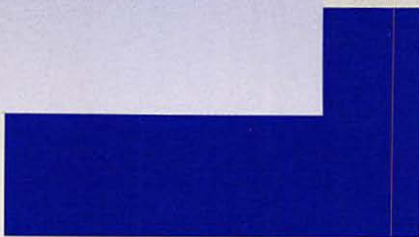

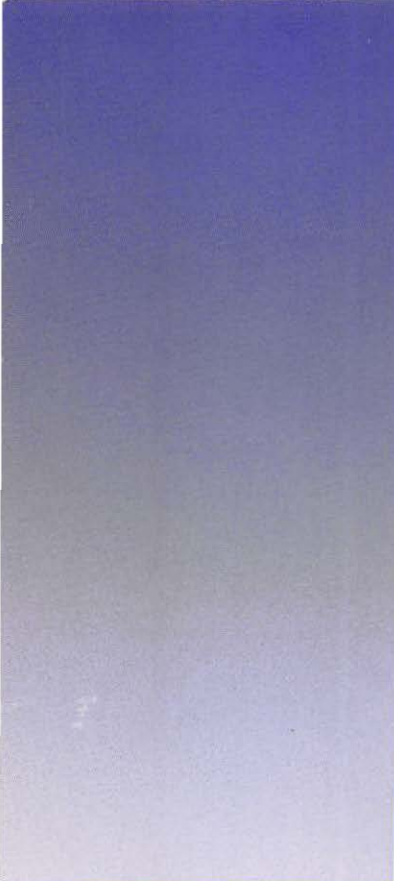
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