

WACOM.

graphire2

**USER'S MANUAL
FOR MACINTOSH®**



Navigation

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RADIO AND TELEVISION INTERFERENCE

The equipment described in this manual generates, uses, and can radiate radio-frequency energy. If it is not installed and used properly—that is, in strict accordance with Wacom instructions—it may cause interference with radio and television reception.

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether the tablet is causing interference by powering it off. If the interference stops, it was probably caused by the tablet.

If your tablet does cause interference to radio or television reception, you may be able to correct the interference by using one or more of the following measures:

- Rotate the television or radio antenna until the interference stops.
- Move the tablet farther away from the television or radio.
- Plug the tablet and computer into an outlet that is on a different circuit from the television or radio.

If necessary, consult your Wacom dealer or an experienced radio/television technician for help.

Changes or modifications to this product not authorized by Wacom could void the FCC Certification and negate your authority to operate the product.



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CE DECLARATION

The Graphire™ 2 digitizing tablet, model ET-0405A-U, has been tested by the Spectrum Research & Testing Laboratory, Inc. in Taiwan and found to comply to the following harmonized European Norms:

- EN 55024 (electromagnetic immunity)
- EN 55022 Class B (electromagnetic emissions)

Based on the results of these tests, Wacom declares that the above mentioned devices conform to Article 10.1 of the European Council Directive 89/336/EEC and to the European Council Directive 73/23/EEC, and indicates this conformity by the CE-sign on each device.

The device must be installed and operated always in strict accordance to the instructions given in this handbook. Any changes or modifications to this product that were not specifically authorized by Wacom will invalidate this declaration.



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ABOUT THE MANUAL

This interactive User's Manual provides quick access to information about Graphire2. Just click on a navigation button or highlighted word to move through the document.

- The [Table of Contents](#) enables you to go directly to a topic by clicking on it.
- [Using Graphire2](#) introduces you to the many capabilities of your Graphire2 pen and mouse set, including a description of the features and functions of your Graphire2 tools. This section also includes exercises for new users.
- [Customizing](#) describes how you can change the control panel settings to optimize your Graphire2 pen and mouse set for your personal work style.
- [Advanced Features](#) allow further customization of your Graphire2 pen and mouse set. Explore them after you have become familiar with using Graphire2 and the basic control panel settings.
- [Having Trouble?](#) Need troubleshooting guidelines? Do you have a question for Technical Support? You will find the answers to most common questions here.
- The [Appendices](#) include information on uninstalling and registering your tablet, product specifications, license and warranty information, and a listing of replacement parts and accessories. If you are using more than one tablet on your computer, you will find instructions on adding and working with multiple tablets.

Note: This manual does not contain information on installing your tablet. Please refer to your product Quick Start Guide and to the automated software installer (located on the Wacom Tablet CD) for details on installing your Wacom tablet.

If you are new to electronic documentation, be sure to read [Navigating the Manual](#).



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SMALL CAPITAL LETTERS are used to identify the names of keyboard keys, dialog boxes, and control panel options.

As you read through the *Customizing* and *Advanced Features* chapters, you will notice that the screen shots of the control panel tabs do not show the [tab buttons](#). These are intentionally left out in order to save space within the manual.

Remember that you can always use the Acrobat Reader zoom-in tool to increase the size of the manual on your display screen.

Certain kinds of information are not included in this manual:

- Information about your specific computer hardware.
- Information about your operating system.
- Information about other Wacom tablets.
- Information about application software. Many graphics applications have built-in support for Graphire2 features (such as pressure-sensitivity and eraser support). You can find a listing of applications that support these features at Wacom's web site (see [Product Information](#)). Refer also to your application manuals for information on how best to use Graphire2 features within specific applications.

Your best reference source for the above information is the set of manuals and disks that came with your hardware, operating system, applications, or other Wacom tablets.



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NAVIGATING THE MANUAL

Use the navigation controls to move through the manual:



Go to front page.



Go to Table of Contents.



Go to Index.



Go back to previous view.



Page back, or page forward.



HEADING TEXT Go to beginning of section.

Topic

Go to topic.



Topic continued.

The Acrobat Reader provides you with additional tools for using and printing the manual. Refer to the *Acrobat Reader Online Guide* for more information.



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USING GRAPHIRE2

This section introduces you to the Graphire2 pen and mouse set. If you are new to using a graphics tablet and tablet input tools, read the following sections. They describe your Graphire2 tools and explain how to use them with the tablet.

[APPEARANCE AND FEATURES](#)

[SETTING UP YOUR WORK AREA](#)

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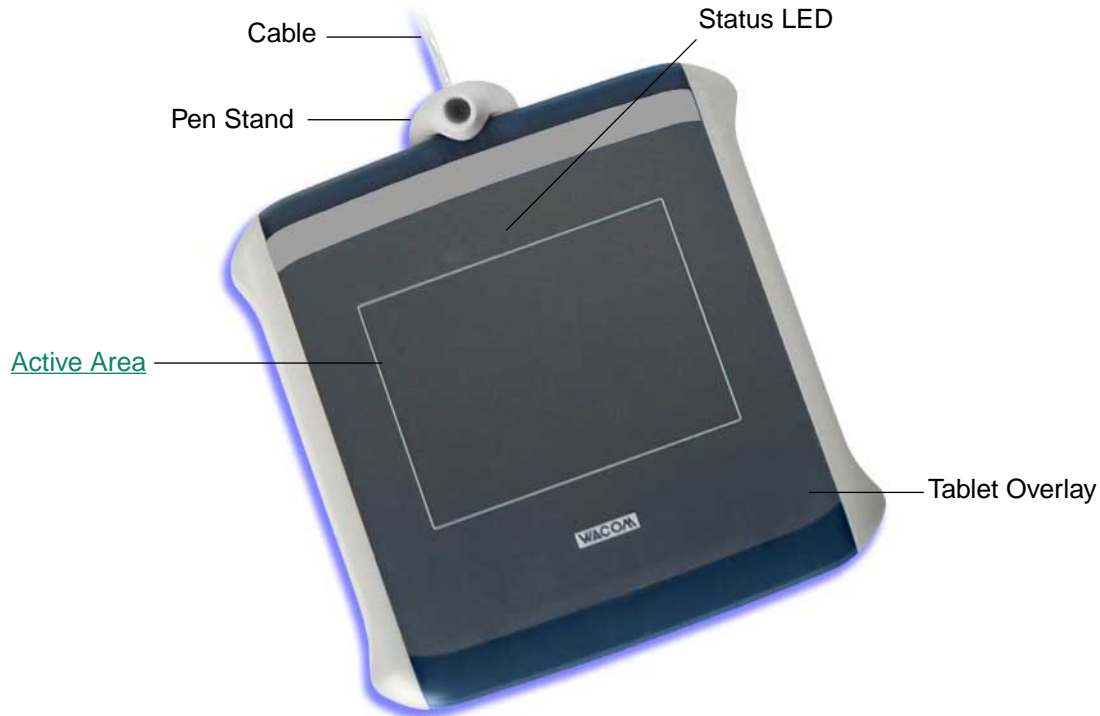
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APPEARANCE AND FEATURES

The Graphire2 pen and mouse set consists of two basic elements: a graphics tablet that serves as your work area, and the [Graphire2 Tools](#) you use with the tablet.

GRAPHIRE2 TABLET



Note: To learn more about your tablet, see [Working with the Tablet](#).



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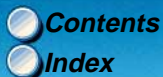
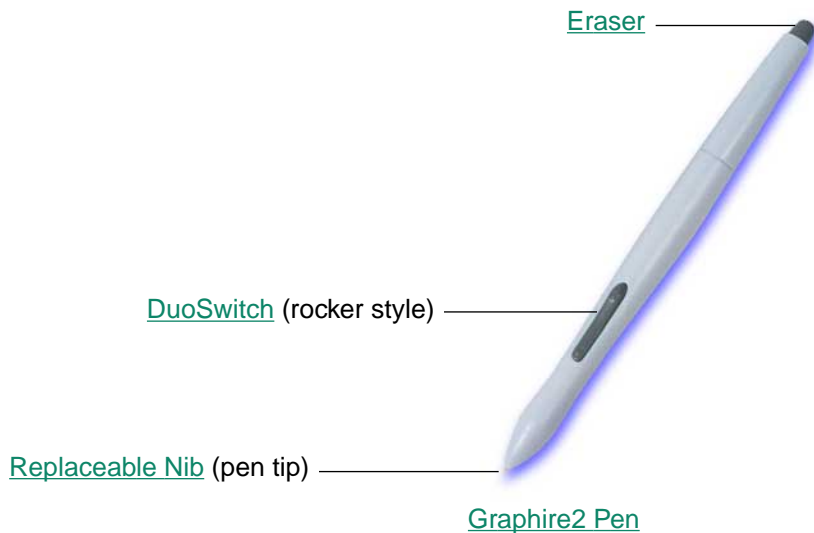
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GRAPHIRE2 TOOLS

Your Graphire2 tools are cordless, batteryless, and ergonomically designed.

The Graphire2 Pen is a pressure-sensitive freehand tool for image editing and creating natural-looking pen and brush strokes.



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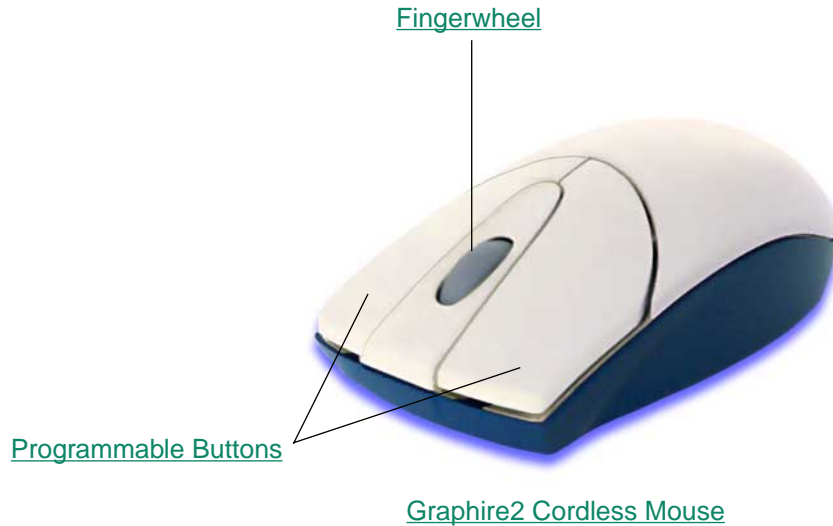
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The Graphire2 Cordless Mouse is an ideal tool for navigation, with three customizable buttons that you can program for different functions. The integrated fingerwheel is both a programmable middle button and a rolling wheel. In most applications, rolling the wheel will cause the active window to scroll.



Graphire2 Cordless Mouse



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SETTING UP YOUR WORK AREA

Organize your work area so you can work comfortably. Position your Graphire2 tablet, input tools, and keyboard so they are easily accessible without unnecessary reaching. Your monitor should be positioned so you can view it comfortably with a minimum of eyestrain.



To minimize fatigue:

- Take short breaks between tasks to stretch and relax your muscles.
- Use a gentle grip when working with your Graphire2 tools.
- Alternate tasks throughout the day.
- Minimize awkward postures and repetitive movements that cause discomfort.

You can attach the pen stand to better fit your work style. Refer to [Working with the Tablet](#) for additional information.



WORKING WITH THE TABLET

Your tablet comes with a detachable pen stand and a transparent overlay.



For free-standing use, place the pen stand within easy reach of your tablet.



To attach the pen stand, place the stand above the tablet cable. Push the stand toward the tablet's pen stand cutout until the stand fits snugly. To detach the pen stand, slide it back away from the tablet.

To trace or digitize an image, lift the tablet overlay and slide the image beneath it.



USING THE GRAPHIRE2 PEN

Your Graphire2 Pen is cordless, batteryless, and pressure sensitive. There are four basic techniques for using the Graphire2 Pen: pointing, clicking, double-clicking, and dragging. With a bit of practice, using the pen will become second nature to you. If you are unfamiliar with using a pen, try the exercises on the following pages.

HOLDING THE PEN

Hold the Graphire2 Pen like you would a normal pen. Make sure the DuoSwitch is in a convenient location where you can toggle it with your thumb or index finger, but not accidentally press the switch while drawing. You can tilt the pen in any way that feels most comfortable for drawing.



Position for drawing



Position for erasing

Important: When the Graphire2 Pen is not in use, place it in the pen stand or lay it flat on your desk. To maintain the sensitivity of your pen tip, do not store the pen in a container where it will rest on its tip.

Leaving a Graphire2 tool on the tablet may interfere with screen cursor positioning when using other pointing devices.



POINTING

The Graphire2 Pen positions the pointer (or cursor) on your screen. You can position the screen cursor two different ways, like a pen (Pen Mode) or like a mouse (Mouse Mode).

- In Pen Mode, the tablet's active area is a mapped representation of your computer screen where every point on the tablet's active area corresponds to exactly one point on the display screen; wherever you place the pen on the tablet, the screen cursor will jump to the corresponding point on the screen. This is the default setting for the Graphire2 Pen, and makes tracing possible—something you cannot do with a mouse.
- In Mouse Mode (the default position for the Graphire2 Cordless Mouse), you move the cursor with a “pick up and roll” action similar to using a mouse.

Try moving the screen cursor by lifting the Graphire2 Pen and placing it in a new location on the tablet. The cursor instantly jumps to the new location.

As the pen enters [Proximity](#), the tablet senses the pen above the tablet surface. You do not need to touch the tablet with the pen tip in order to move the screen cursor.

Learning Hint: If you are used to working with a mouse and find that using a pen is somewhat difficult, try the [Eye-Hand Coordination Exercise](#).

Pointing Hint: Pointing is easier when you orient the tablet so the screen cursor follows the same direction as your hand movements on the tablet.



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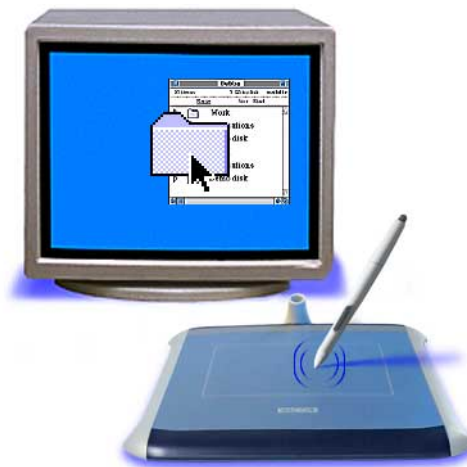
CLICKING

Clicking. To click, tap the tablet once with the tip of the Graphire2 Pen, or press the pen tip on the tablet with enough force to register a click. (With the pen tip, there is no audible “click” sound.)

Try clicking on a folder icon by moving the screen cursor over the icon and pressing down on the pen tip. The icon should highlight when you press.

Double Clicking. To double-click, quickly tap the tablet twice in the same place with the pen tip. This is like clicking twice with a mouse button. You can also double-click by pressing the lower side switch—this is the preferred method of double-clicking with a pen.

Try both ways of double-clicking on a folder icon to open it. First use your pen tip to do this, then use the lower side switch.



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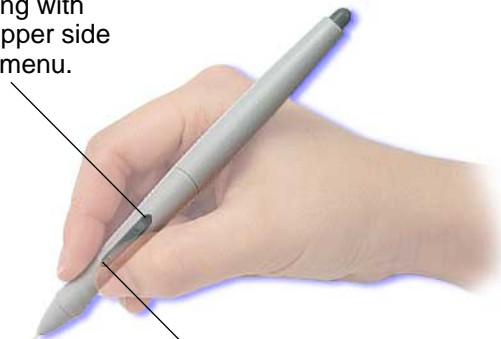
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USING THE SIDE SWITCH

The Graphire2 Pen is equipped with a DuoSwitch. This switch has two programmable functions that can be selected by rocking the switch in either direction. You can use the DuoSwitch whenever the pen tip is within [Proximity](#) of the tablet. You do not have to touch the pen tip to the tablet in order to use the switch.

The upper switch position simulates a CTRL function by default. Clicking with the pen tip while pressing the upper side switch will display a contextual menu.



The lower switch position is set for a double-click by default.

Double-Click Hint: Press the lower side switch to double-click. This is easier than tapping twice with the pen tip.

To assign new switch functions, refer to [Customizing Tool Buttons](#).



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DRAGGING

Dragging is used to select and move objects on the screen. To drag, first point to an object. Then press the Graphire2 Pen to the tablet and slide it across the tablet. The selected object will move across the screen. To select text, move the screen cursor to the beginning of a text line, then drag the Graphire2 Pen across the tablet until the text is highlighted.

First, try moving an icon on the screen. Then, within a document, select some text by pressing and dragging the pen tip across the text.



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PROXIMITY

The pen is activated as soon as it enters proximity above the tablet's active area. This allows you to position the screen cursor or use the side switch without touching the pen tip to the tablet. You can also trace a drawing or photograph as long as the pen tip remains within proximity height.

Place a picture under the tablet overlay and try tracing it from within one of your graphics applications.

For the Graphire2 Pen, proximity is about 5 mm (0.2 inch), average.

For the Cordless Mouse, proximity is approximately 1 - 2 mm (.04 - .08 inch).



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DRAWING WITH PRESSURE

The Graphire2 Pen responds to the nuance and inflection of your hand movements, enabling you to create natural-looking pen and brush strokes. Many graphics applications have drawing tools that respond to the pressure you place on the pen. For example, in some drawing programs sliders are used to vary brush characteristics (width, color, and opacity). These characteristics can be controlled much better by the Graphire2 Pen's pressure-sensitivity. You can vary line width, blend colors, and change opacity with the pressure you exert upon the pen.

To draw with pressure-sensitivity, select a pressure-sensitive tool from your application's tool palette. Draw along the surface of the tablet while applying various amounts of pressure downward on the tip of the Graphire2 Pen. Press hard for thick lines or dense color. Press gently for thin lines or softer color. To adjust the tip feel, see [Adjusting Tip Feel](#).



Visit our web site for a list of graphics applications that support pressure. See [Product Information](#).



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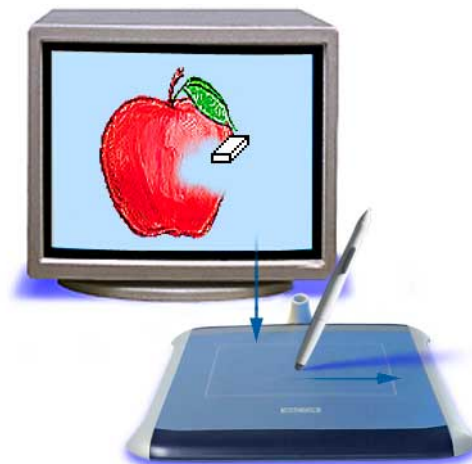


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ERASING

The eraser on the Graphire2 Pen works like the eraser on a pencil. In graphics applications that support the pen's eraser, you can erase intuitively and naturally. When you use the pen's eraser, the application will automatically switch to the eraser tool. You can also use the eraser in many standard office applications. The eraser will not be pressure sensitive, but you can use it to select and delete text or spreadsheet cells.



Try your eraser by opening Simple Text and typing a few words. Use the eraser to select the text. When you lift the eraser, the text will be erased. For further information on using your eraser, see [Adjusting Eraser Feel](#).

Visit our web site for a list of graphics applications that support the eraser (see [Product Information](#)). If the eraser is not supported in an application, you can still use the eraser for navigating and drawing.



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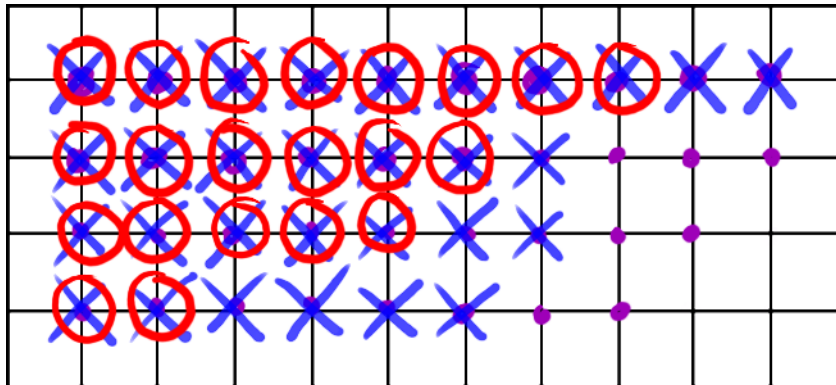
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EYE-HAND COORDINATION EXERCISE

If you use a mouse, you may remember how long it took to get used to positioning the screen cursor. Your Graphire2 Pen, likewise, will take a bit of practice to master the technique of positioning the screen cursor in [Pen Mode](#). This may seem difficult at first, but it is more natural and faster than in [Mouse Mode](#).

This exercise is designed to retrain your eye-hand coordination for using the Graphire2 Pen:

1. Open any graphics application. Use the line tool to draw a rectangular grid with line spacings of about 20-25 mm (3/4 to 1 inch). (You can use your traditional mouse to do this.)
2. Choose a free-hand tool in your application and use the Graphire2 Pen to draw a dot at each grid intersection.
3. Draw an X at each grid intersection.
4. Now draw a circle around each intersection. Your screen should look like this:



5. Clear your screen and make a simple drawing of your own. The more you use your Graphire2 Pen, the easier drawing and navigation will become.

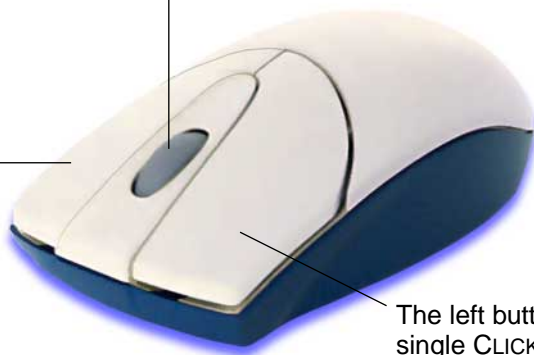


USING THE GRAPHIRE2 CORDLESS MOUSE

The Graphire2 Cordless Mouse is batteryless and works on your Graphire2 tablet. By moving the Cordless Mouse across the tablet's active area, you can position the screen cursor like you do with a regular mouse. The buttons are programmable, and the integrated fingerwheel is both a programmable middle button and a rolling wheel for scrolling.

Integrated middle button and fingerwheel. By default, the button function is set to DOUBLE CLICK and the fingerwheel is set to scroll 3 lines per wheel notch.

The right button is set to MODIFIERS: CTRL+CLICK by default.



The left button is set to single CLICK by default.

Important: When using other pointing devices, place the Graphire2 Cordless Mouse on your desk. Leaving a Graphire2 tool on the tablet may interfere with screen cursor positioning when using other pointing devices.

To learn how to program buttons, see [Customizing the Graphire2 Cordless Mouse](#).



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USING THE CORDLESS MOUSE FINGERWHEEL

To use the fingerwheel, place your hand on the Graphire2 Cordless Mouse with your index finger on the wheel.

- **Button function.** To use the button function, press down on the wheel to perform a button click.
- **Scrolling.** In most applications the fingerwheel will control scrolling; move the fingerwheel forward to scroll up, and back to scroll down. By default the fingerwheel is set to scroll 3 lines for each notch of wheel movement.



For a full description of fingerwheel features and functionality, see [Customizing the Cordless Mouse Fingerwheel](#).



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CARING FOR YOUR TOOLS AND TABLET

Keep your Graphire2 tools and tablet surface clean. Dust and dirt particles can stick to your Graphire2 tools and cause wear to the tablet surface. Regular cleaning with a soft, damp cloth will help prolong the life of your tablet surface and Graphire2 tools. You can also use a very mild soap diluted with water. Do *not* use volatile liquids, such as paint thinner or benzene, because they may damage the plastic case.

Keep your tablet and tools in a clean, dry place and avoid extremes in temperature. Room temperature is best. Also, your Graphire2 tools and tablet are not made to come apart. Twisting the pen case can break the pen. Taking apart the product will void your warranty.

Important: When the Graphire2 Pen is not in use, place it in the pen stand or lay it flat on your desk. To maintain the sensitivity of your pen tip, do not store the pen in a container where it will rest on the tip.



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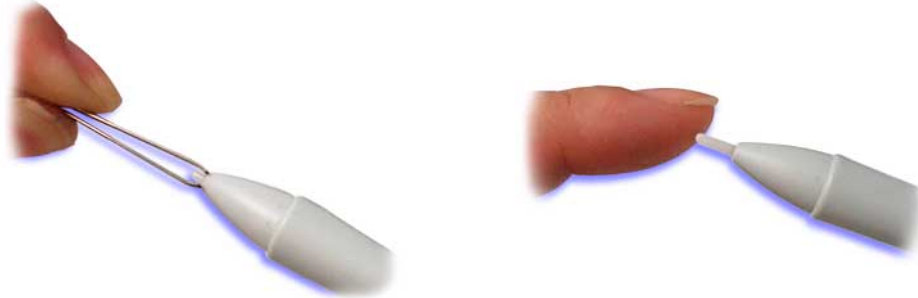
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REPLACING THE PEN TIP

The tip (nib) will wear with normal use. When the nib gets too short or develops a flat point, you can replace it with another nib. See [Parts and Accessories](#).

1. Clasp the old nib with a tweezer, needle-nosed plier, or similar instrument and pull it straight out of the pen.
2. Slide the end of the new nib straight into the barrel of the pen. Firmly push the nib until it stops.



To order replacement parts, refer to [Parts and Accessories](#).



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CUSTOMIZING

After you master the basics of using your Graphire2 pen and mouse set, you may want to customize the way Graphire2 works. This chapter describes how to use the Wacom control panel to adjust your Graphire2 tool and tablet settings.

Advanced users can learn how to further optimize Graphire2 by creating [application-specific settings](#).

[OPENING THE CONTROL PANEL](#)

[CONTROL PANEL FEATURES](#)

[CUSTOMIZING YOUR PEN AND CORDLESS MOUSE](#)

[CUSTOMIZING THE POP-UP MENU](#)

[WORKING WITH GRAPHIRE2 TOOLS](#)

[WORKING WITH APPLICATION-SPECIFIC SETTINGS](#)

[PULL-DOWN MENUS](#)



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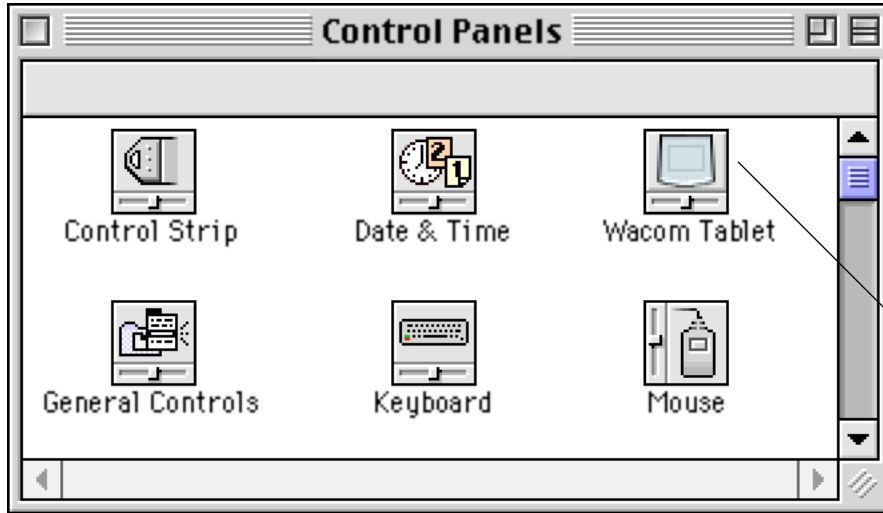


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OPENING THE CONTROL PANEL

Open the control panel with the Graphire2 tool you wish to customize.

1. Using your Graphire2 tool, open the Apple menu and choose CONTROL PANELS.
2. Double-click on the tablet icon.



To open the Wacom control panel, double-click here with the tool you wish to customize.



CONTROL PANEL FEATURES

Use the Wacom control panel to customize your Graphire2 pen and mouse set.



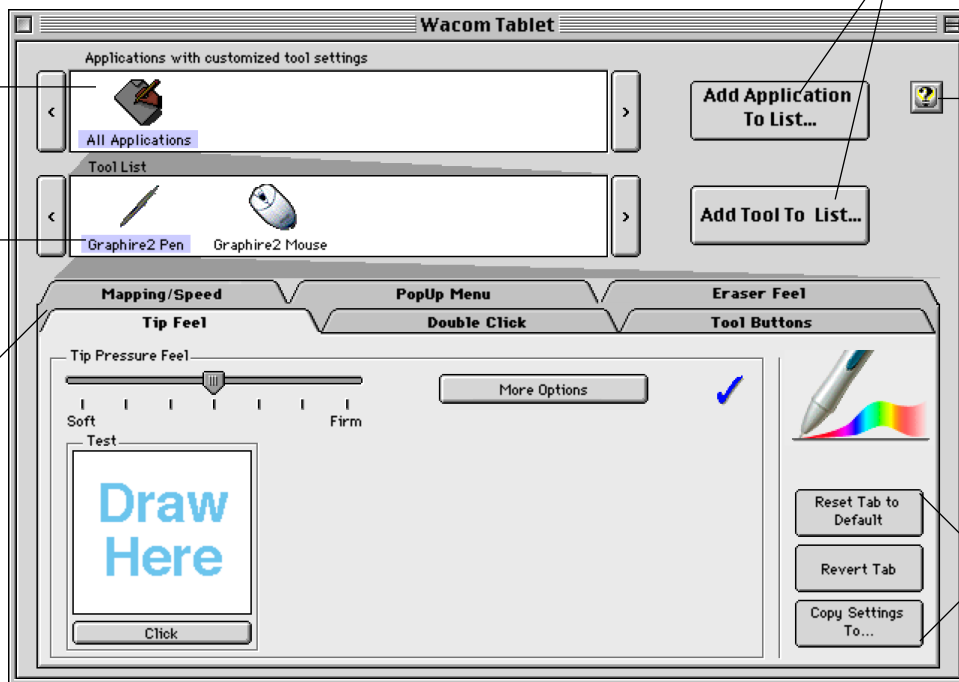
The [Pull-Down Menus](#) access many control panel features.

The [Application List](#) displays applications with customized settings.

The [Tool List](#) displays tools that are customized for the above selected application.

[Tabs](#) display settings for the selected application and selected tool.

These buttons add an application or tool to the lists at the left.



The Help button displays online Help. The information is the same as in the *Customizing* and *Advanced Features* chapters in this manual.

[Tab buttons](#) apply only to the selected tab.

TABS

The tabs allow you to customize your Graphire2 tablet, Pen, and Cordless Mouse. When you open the control panel with a Graphire2 tool, the tool is automatically selected in the TOOL LIST and the appropriate tabs are displayed. To change settings for your other tool, select the appropriate tool icon to display the corresponding tabs.



These tabs are displayed for the Graphire2 Pen.

Note: The APPLICATION LIST is for advanced users who want to create application-specific settings; it is not necessary to select or add applications to customize your Graphire2 tools. To customize Graphire2, select the Graphire2 Pen or Cordless Mouse from the TOOL LIST; the appropriate tabs will display for the selected tool. Then select the tab for the tool setting(s) that you want to modify.



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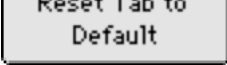


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CUSTOMIZING

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Tab buttons apply only to the selected tab:

- To set the currently open tab to its factory default values, click 
- If you have changed settings on a tab and want to return the tab to the last state when the control panel was opened, click 
- To copy settings from one tool or application to another, click  This will display the [Copy Settings To...](#) dialog box.

As you explore the control panel tabs, experiment with different settings to find what works best for you. You can always click RESET TAB TO DEFAULT to return to the factory settings. Or, click REVERT TAB to return a tab to the last state when the control panel was opened. Refer to [Customizing Your Pen and Cordless Mouse](#) for detailed information on working with tabs.



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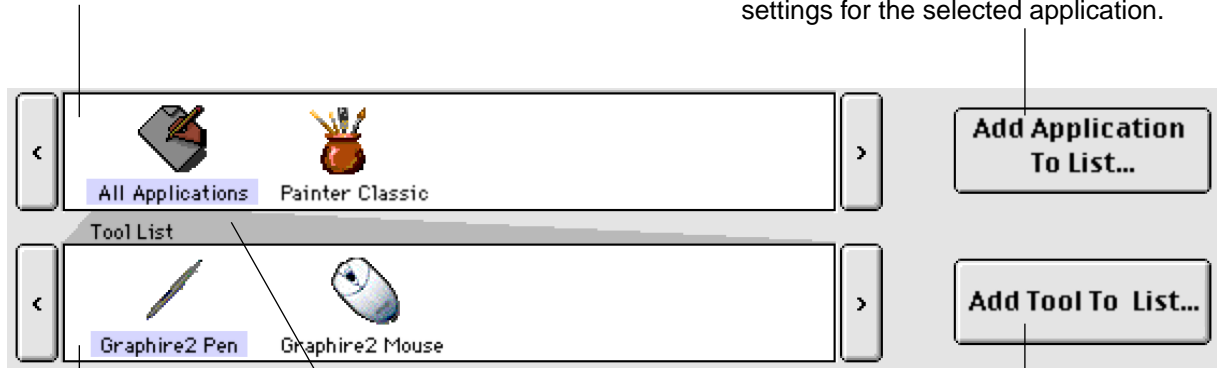
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CONTROL PANEL LISTS

Located in the upper portion of the control panel, the APPLICATION LIST and TOOL LIST allow you to create different tablet and tool settings for individual applications. For example, you might set your pen tip for a soft feel in Painter and a firm feel in all other applications.

The APPLICATION LIST displays applications that have custom tool settings associated with them.

Click to add an installed application to the APPLICATION LIST. You can customize tool settings for the selected application.



The TOOL LIST displays which tools (Graphire2 Pen or Cordless Mouse) can be customized for the application selected above.

Your current selections are highlighted. Wedges emphasize the relationship between tab settings and the selected tool and application.

Click to add a Graphire2 tool to the TOOL LIST. You can customize the tool for the above selected application.





- When you first install your Graphire2 pen and mouse set, the APPLICATION LIST displays the ALL APPLICATIONS icon. This contains tablet and tool settings for all of your applications.
- The TOOL LIST displays an icon for the Graphire2 Pen and Cordless Mouse. Each tool icon is automatically added to the TOOL LIST when a Graphire2 Pen or Cordless Mouse is first used on the tablet. See [Adding a Tool](#) for more information.

When you are ready to create custom settings for individual applications, see [Working with Application-Specific Settings](#).

CONTROL PANEL BUTTONS

The control panel buttons are common to the entire control panel.

- To exit the control panel, either click on the close box (located on the window title bar), or select QUIT or CLOSE from the FILE menu.
- To display online Help for the control panel, click  Or, you can choose HELP... from the HELP pull-down menu.

Balloon Help, which provides quick information and useful tips, is also available for most control panel items. To access balloons, turn them on by selecting SHOW BALLOONS from the HELP menu. Help for individual dialog boxes is available by clicking on the  button in the specific dialog box.



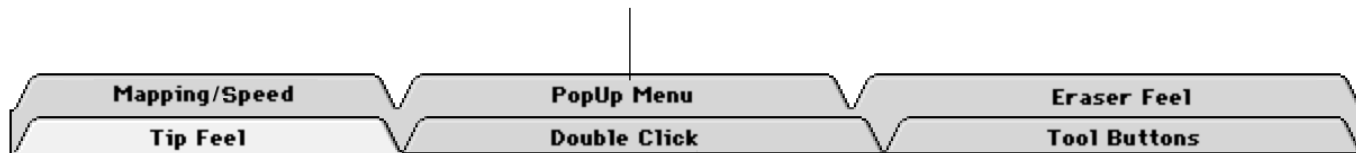
CUSTOMIZING YOUR PEN AND CORDLESS MOUSE

To change tool settings, open the control panel using the tool you wish to customize. The tool will automatically be selected in the TOOL LIST, and the appropriate tabs will be displayed. To customize settings for a different tool, select it from the TOOL LIST by clicking on its icon.

GRAPHIRE2 PEN TABS

If you selected the Graphire2 Pen, the following control panel tabs are displayed:

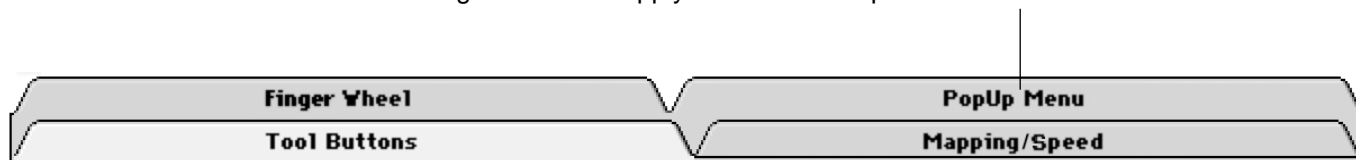
Settings on this tab apply to both the Graphire2 Pen and Cordless Mouse.



GRAPHIRE2 CORDLESS MOUSE TABS

If you selected the Graphire2 Cordless Mouse, the following tabs are displayed:

Settings on this tab apply to both the Graphire2 Pen and Cordless Mouse.



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ADJUSTING TIP FEEL

To adjust the sensitivity of your Graphire2 Pen tip, select the TIP FEEL tab. To create broad brush strokes or to click with a light touch, use a soft tip setting. For maximum control while drawing thin lines, use a firm tip setting.

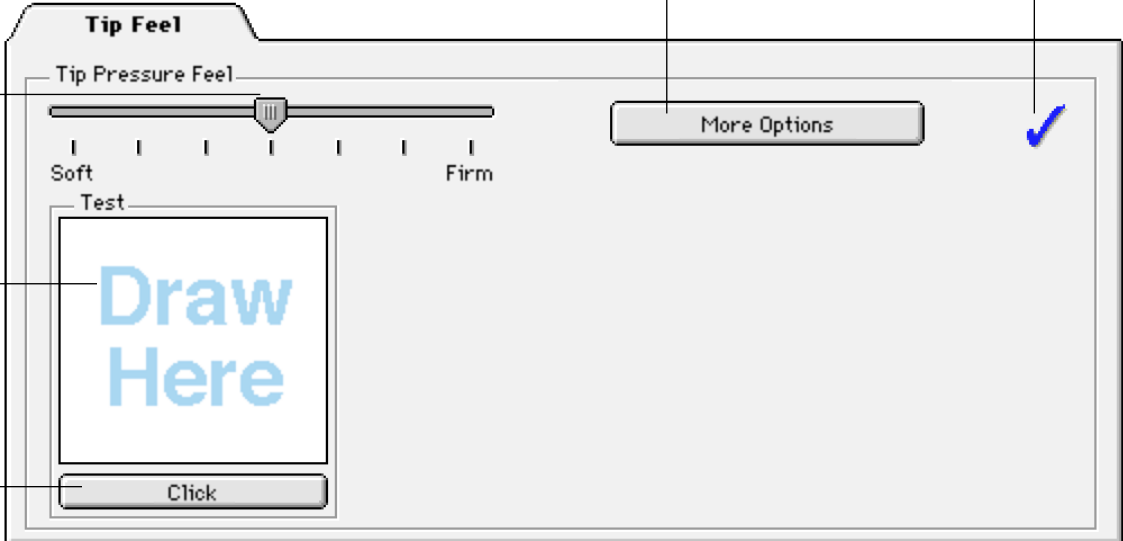
A checkmark appears when advanced settings are in effect.

Toggles to the [advanced options](#) display.

Drag the slider to a softer or firmer setting.

Make several pen strokes to test the current pressure-sensitivity setting.

Click here with your pen tip to test the current click pressure setting.



The image shows a software interface for adjusting the 'Tip Feel' of a pen. At the top, the title 'Tip Feel' is displayed. Below it is a horizontal slider labeled 'Tip Pressure Feel'. The slider has a central knob and is marked with 'Soft' on the left and 'Firm' on the right. Below the slider is a 'Test' area containing a large blue text box that says 'Draw Here' and a smaller button labeled 'Click'. To the right of the slider is a button labeled 'More Options' and a blue checkmark icon. Lines with text labels point to various elements: 'Drag the slider to a softer or firmer setting.' points to the slider knob; 'Make several pen strokes to test the current pressure-sensitivity setting.' points to the 'Draw Here' text; 'Click here with your pen tip to test the current click pressure setting.' points to the 'Click' button; 'A checkmark appears when advanced settings are in effect.' points to the blue checkmark; and 'Toggles to the advanced options display.' points to the 'More Options' button.

Note: For all screen shots of tabs, the [tab buttons](#) are omitted in order to save space.



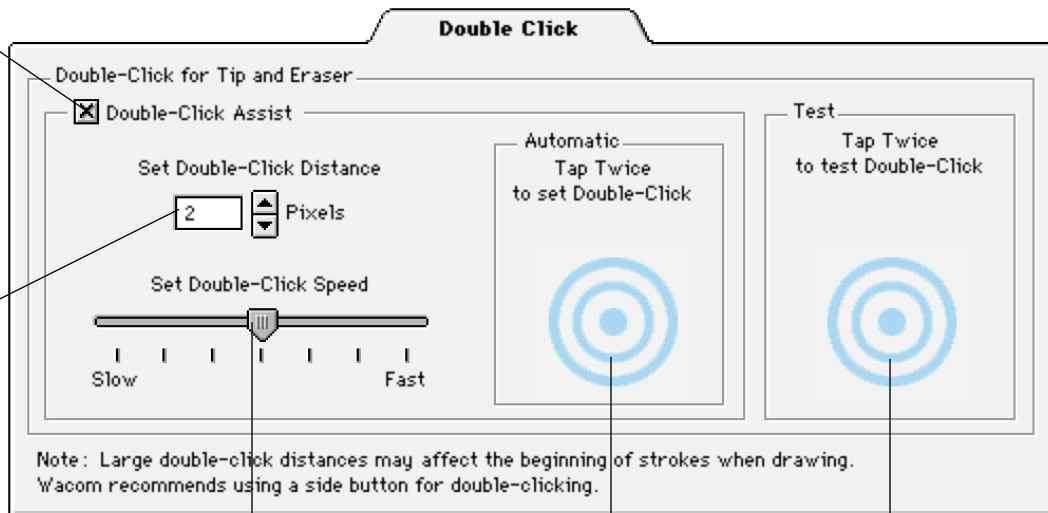
ADJUSTING DOUBLE-CLICK

Double-clicking with the pen tip can be made easier by expanding the tap area that accepts a double-click (the double-click distance) and reducing the speed required to perform a double-click. This can be set in the DOUBLE CLICK tab. Because a large double-click distance may adversely affect your brushstrokes in some drawing applications, Wacom recommends setting a small double-click distance and using the lower side switch to double-click.

Use custom double-click settings when checked.

Note: DOUBLE-CLICK ASSIST can be enabled for some applications and disabled for others. See [Working with Application-Specific Settings](#) for more information.

Enter a number from 1 to 25 pixels or click the up and down arrows to increase or decrease double-click distance.



Drag the slider to change the double-click speed. A slower speed makes double-clicking easier.

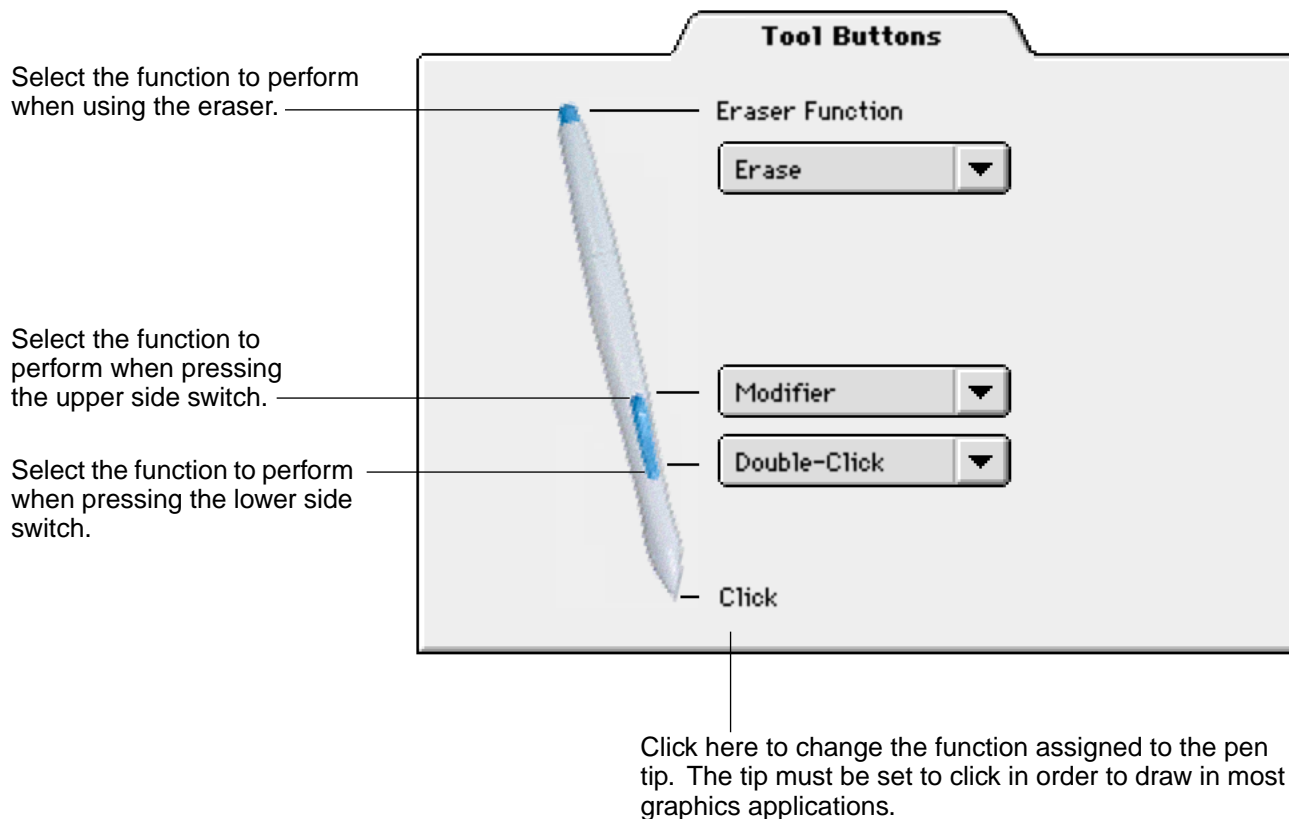
Double-click on the target to test your settings before applying them.

Tap twice on this icon with your pen tip to automatically set double-click distance and speed based on the way you normally double-click.



CUSTOMIZING TOOL BUTTONS

Select the **TOOL BUTTONS** tab to change the functions assigned to the eraser, side switch, and tip of your Graphire2 Pen. For each tool button, a pull-down menu enables you to choose the function that will be performed.



Button Functions

Each button has a pull-down menu that allows you to choose the function that will be performed when the button is pressed. The following list describes all available functions. However, some options are not available for all buttons.

- **CLICK.** Default setting for the Graphire2 Pen tip. This option simulates a mouse button click. Be sure at least one button performs this function so you can always navigate and click.
- **DOUBLE-CLICK.** Default setting for the lower position of the side switch. When this option is selected, pressing the switch simulates a mouse button double-click. For easier double-clicking, use this function instead of tapping twice with your pen tip.
- **CLICK-LOCK.** Simulates holding down a mouse button. Press the tool button once to initiate click lock. Press the button again to release click lock. Click lock is useful for dragging objects or selecting blocks of text.



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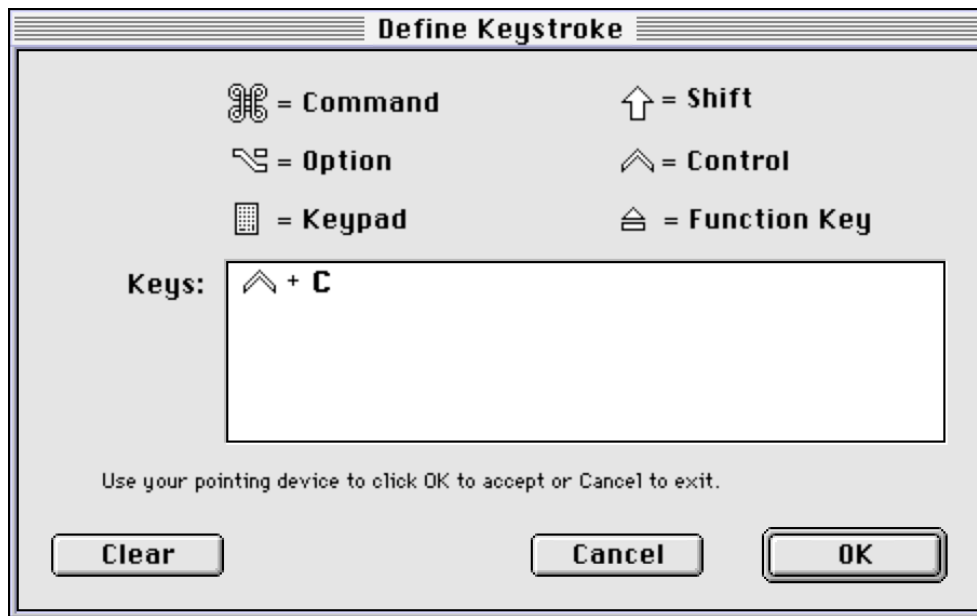


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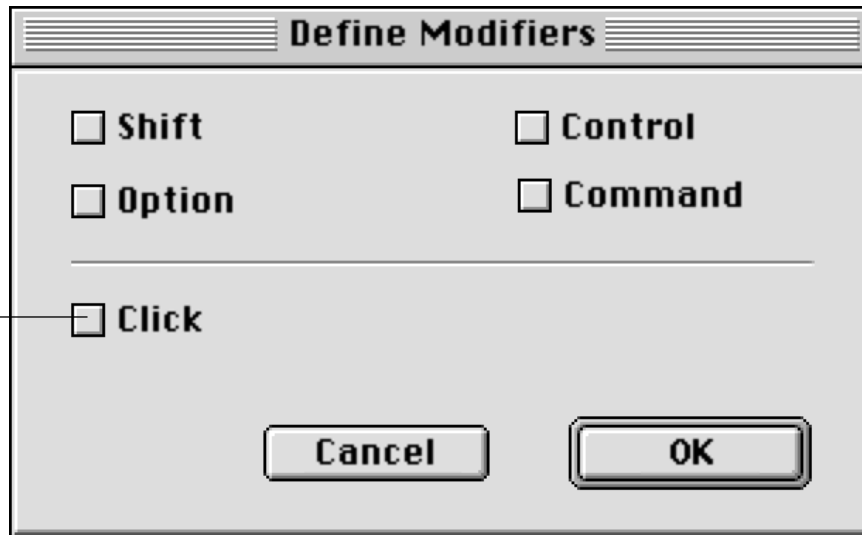
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- **KEYSTROKE....** Enables you to simulate a series of keystrokes. When you select this option, the DEFINE KEYSTROKE dialog box appears. There, you can enter a keystroke or keystroke sequence to play back. Keystroke combinations can include letters, numbers, function keys (such as F3) and modifier keys (such as SHIFT, OPTION, COMMAND, and CTRL). After defining a keystroke sequence, click OK.

Important: Because the RETURN key can be selected as a defined keystroke, it cannot be used to select OK. You must use a tool to click on the OK button.



- **MODIFIER....** Enables you to simulate modifier key(s) (such as SHIFT, OPTION, COMMAND, and CTRL). Many applications use modifier keys to constrain the size or placement of objects. If you select this option, the DEFINE MODIFIERS dialog box appears. There, you select the modifier key(s) to simulate.



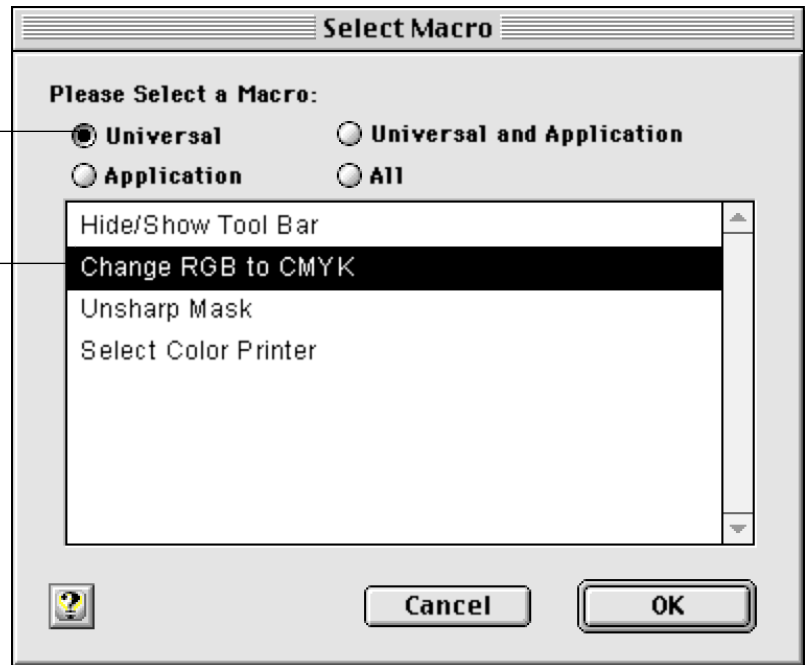
You can select the CLICK box plus one or more modifier key options to define the function you want your tool button to simulate.



- **MACRO....** Enables you to play a macro sequence. When you select this option, the SELECT MACRO dialog box appears. There, you can select a predefined macro to play back. After selecting a macro, click OK.

Choose the macro type.

Select the macro you wish to use.



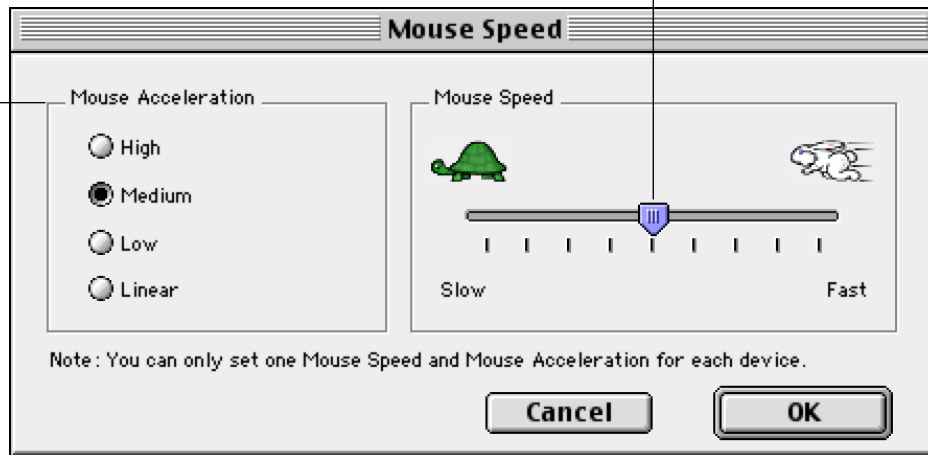
Note: Before you can add macros, you must first create them with a third-party macro application.



- **PRESSURE HOLD.** (Graphire2 Pen only.) Sets a button so that, when pressed, the pressure is locked at the current pressure level until the button is released. For example, you can paint with pressure-sensitivity until you reach the brush size that you like. You can then press the button and continue painting with the same size brush until the button is released.
- **MODE TOGGLE....** Toggles between [Pen Mode](#) and [Mouse Mode](#). When first setting a tool button to MODE TOGGLE..., the MOUSE SPEED dialog box is displayed where you can adjust the mouse acceleration and speed.

Sets the screen cursor speed when in MOUSE MODE.

Sets the screen cursor acceleration when in MOUSE MODE.



- **POP-UP MENU.** Displays a Pop-up Menu on your screen. See [Customizing the Pop-up Menu](#) for more information.
- **ERASE.** Default setting for the eraser. Refer to [Erasing](#) for information on using the eraser.
- **IGNORED.** Disables the button function.
- **Application Defined.** (Graphire2 Cordless Mouse only.) Only the button number is reported to your application. Use this setting when using applications that have built-in support for tool buttons.



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ADJUSTING ERASER FEEL

To adjust the sensitivity of your Graphire2 Pen eraser, select the ERASER FEEL tab. To erase with a broad stroke or to click with a light touch, use a soft tip setting. For maximum control while erasing, use a firm eraser setting.

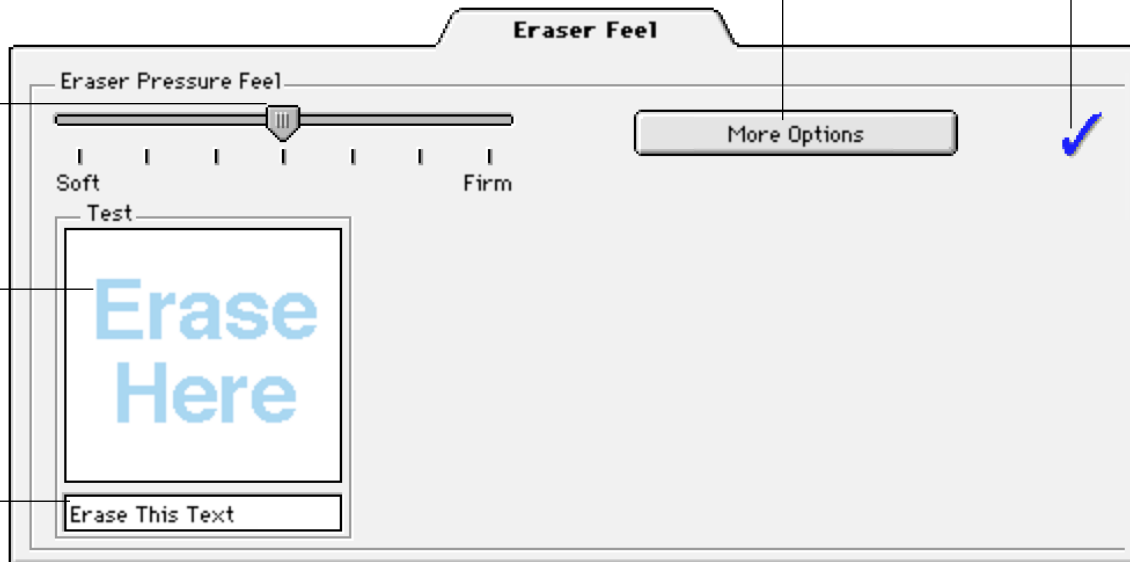
A checkmark appears when advanced settings are in effect.

Toggles to the [advanced options](#) display.

Drag the slider to a softer or firmer setting.

Using your eraser, test the current eraser pressure-sensitivity setting by erasing here.

Erase this text. Using your eraser, select text to test the current eraser click pressure setting.



TABLET TO SCREEN MAPPING

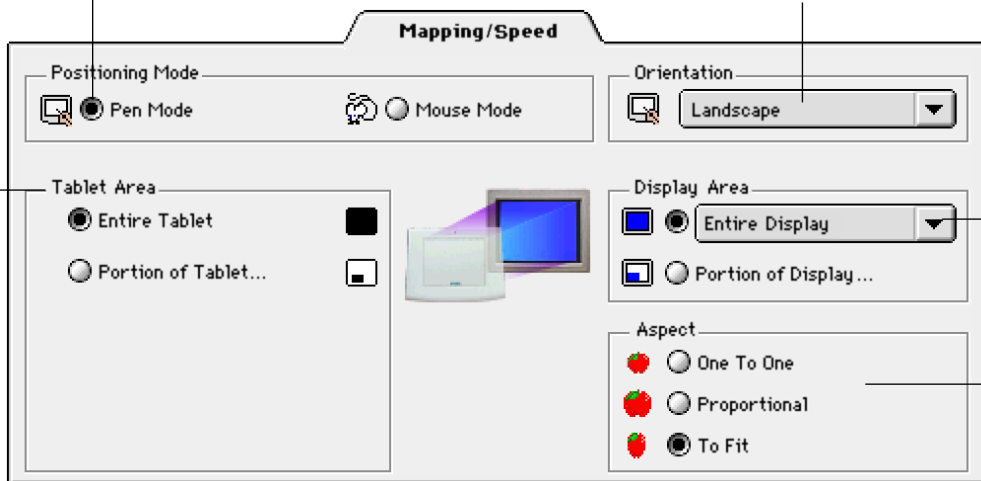
To change the relationship between tool movement on your tablet and cursor movement on the screen, select the MAPPING/SPEED tab. The default POSITIONING MODE for the Graphire2 Pen is PEN MODE, which means that each point on the tablet maps to a corresponding point on the screen. (The default setting for the Graphire2 Cordless Mouse is MOUSE MODE.) In PEN MODE, the MAPPING/SPEED tab looks like this:

Positioning Mode. In **Pen Mode**, the screen cursor moves with absolute positioning.

Select the **Orientation** of your tablet.

Note: Except for tablet orientation, the mapping settings for the Graphire2 Pen and Cordless Mouse are independent of one another.

Select the **Tablet Area** for drawing.



Display Area. Select a monitor area for tablet to screen mapping.

Aspect. Select a tablet to screen mapping relationship.



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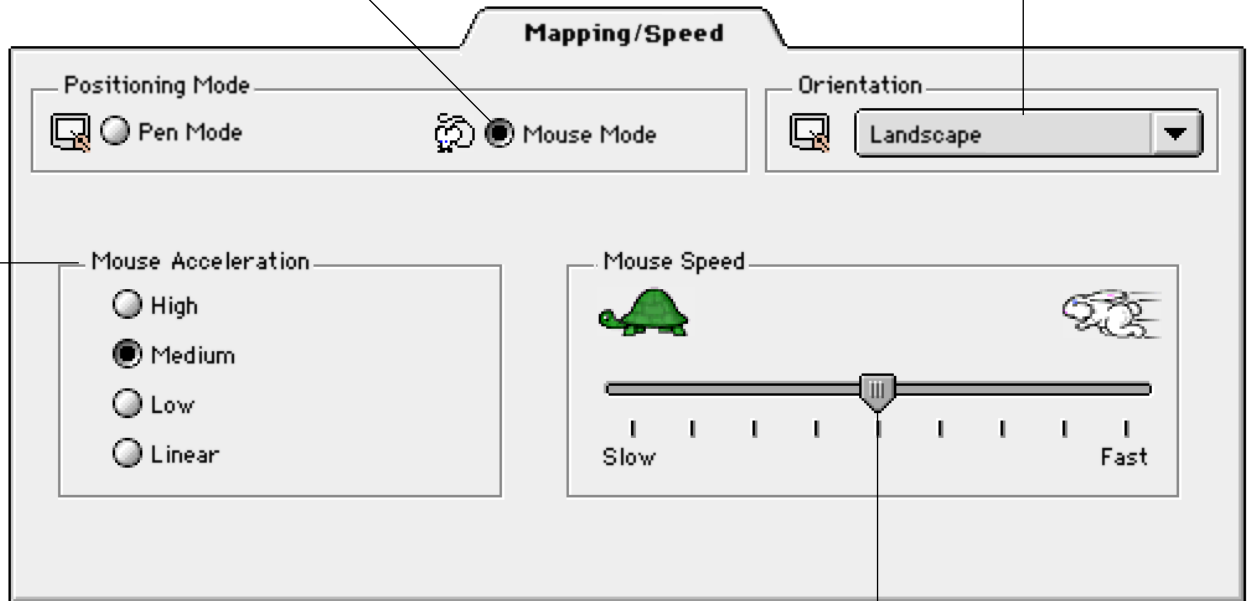
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With MOUSE MODE selected, the MAPPING/SPEED tab looks like this:

Positioning Mode. In **Mouse Mode**, the screen cursor moves with relative positioning. This is the default mode for the Graphire2 Cordless Mouse.

Select the **Orientation** of your tablet.

Sets the screen cursor acceleration when in MOUSE MODE.



Select a slower or faster screen cursor speed when in Mouse Mode.



Positioning Mode

The POSITIONING MODE controls how the screen cursor moves.

- In PEN MODE, wherever you place a Graphire2 tool on the tablet, the cursor jumps to the corresponding point on the screen. This is required for tracing.
- In MOUSE MODE, the screen cursor is positioned like a mouse, requiring a “pick up and roll” action to move the cursor on the screen.

By default, your Graphire2 Pen is set to PEN MODE for drawing, and your Graphire2 Cordless Mouse is set to MOUSE MODE for navigation.

Note: You can also switch between PEN MODE and MOUSE MODE by using the screen Pop-up Menu. See [Customizing the Pop-up Menu](#) for more information.



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Orientation

If you are working with a tall monitor or prefer to work with the tablet in a different position, you can rotate the tablet to one of the following orientations:

- **LANDSCAPE.** Tablet orientation is horizontal, with the tablet cable at the top. This is the default setting.
- **PORTRAIT.** Rotate the tablet 90 degrees clockwise from landscape orientation. The tablet orientation will be vertical, with the tablet cable on the right side.
- **LANDSCAPE FLIPPED.** Rotate the tablet 180 degrees from landscape orientation. The tablet will be upside down, with the tablet cable near the bottom.
- **PORTRAIT FLIPPED.** Rotate the tablet 90 degrees counter-clockwise from landscape orientation. The tablet orientation will be vertical with the tablet cable on the left side.

After making changes, verify you have the correct setting for your tablet orientation. Do this by moving your tool “up” on the tablet—the cursor should move up as well.

Note: The orientation you select applies to all tools and applications.



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Aspect

Aspect defines the constraints of the tablet to screen relationship. ASPECT options include:



- **ONE TO ONE.** Sets a 1:1 scale between the tablet and the display. Moving your tool one inch on the tablet will move the cursor one inch on the screen. A traced image appears the same size as the original image on your display screen. A screen resolution of 72 DPI is used in calculations. If your monitor is set to use a different screen resolution, a 1:1 scale will not be maintained.
- **PROPORTIONAL.** Maintains correct vertical and horizontal proportions between the tablet and display. A traced image appears proportionally correct on your display, but may be smaller or larger than the original image.
- **To Fit.** Correct scale or proportions are not maintained. The selected tablet area is mapped to the selected display area. A traced image may appear stretched, and may be smaller or larger than the original image. This is the default setting for all tools.

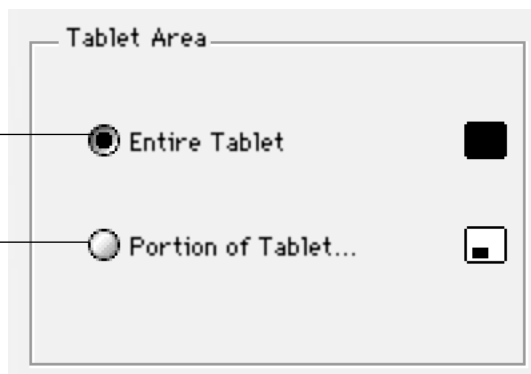


Tablet Area

These settings allow you to define the tablet area that will be mapped to the display area.

Uses the entire active area of the tablet for tablet to display mapping. This is the default setting.

Displays the PORTION OF TABLET dialog box where you can select a portion of the tablet's active area for tablet to display mapping.



Enter coordinates to select the tablet area.

- Select UNITS of measure for the displayed values. A count equals one line of tablet resolution.
- Enter values for the TOP, LEFT, BOTTOM, and RIGHT boundary of the tablet area. Values are measured from the top left corner of the tablet's active area.

Drag corners of the foreground graphic to select the tablet area. The background graphic represents the entire active tablet area. Values in the ENTER COORDINATES text boxes change accordingly.

Use your tool on the tablet to select the tablet area.

- Select the CLICK TO DEFINE TABLET AREA button.
- Follow the MESSAGE prompts to set the portion of your tablet that will be used for mapping.

Portion of Tablet

Choose one of the following three ways to define Portion of Tablet:

1. Enter Coordinates

Top Units
Left
 Bottom
 Right

2. Drag Handles

Position Rectangle for Tablet

3. Select Area with Tool

Message

Note: As you define PORTION OF TABLET, be sure to review the MESSAGE prompts that may appear.



Display Area

The DISPLAY AREA options allow you to define which portion of the display screen your tablet will map to.

- **ENTIRE DISPLAY.** Select this option to access the entire display. This is the default setting. If more than one monitor is in use, a pull-down menu is displayed with options for selecting ALL MONITORS or individual monitors.
- **PORCION OF DISPLAY....** This option allows you to select a portion of the display for tablet to screen mapping. Selecting PORTION OF DISPLAY... brings up the PORTION OF DISPLAY dialog box.

Enter coordinates to select the screen area.

- Select UNITS of measure for the displayed values.
- Enter values for the TOP, LEFT, BOTTOM, and RIGHT boundary of the display screen area. Values are measured from the top left corner of the display.

Drag corners of the foreground graphic to select the screen area. The background graphic represents the entire screen area. Values in the ENTER COORDINATES text boxes will change accordingly.

Move the screen cursor to select the screen area.

- Select the CLICK TO DEFINE SCREEN AREA button.
- Follow the MESSAGE prompts to set the portion of your display screen that will be used for mapping.

Portion of Display

Choose one of the following three ways to define Portion of Display:

1. Enter Coordinates

Units: Pixels

Top: 0

Left: 0

Bottom: 266

Right: 1024

2. Drag Handles

Position Rectangle for Display

3. Select Area with Tool

Click to Define Display Area

Message

Cancel OK

Note: As you define PORTION OF DISPLAY, be sure to review the MESSAGE prompts that may appear.

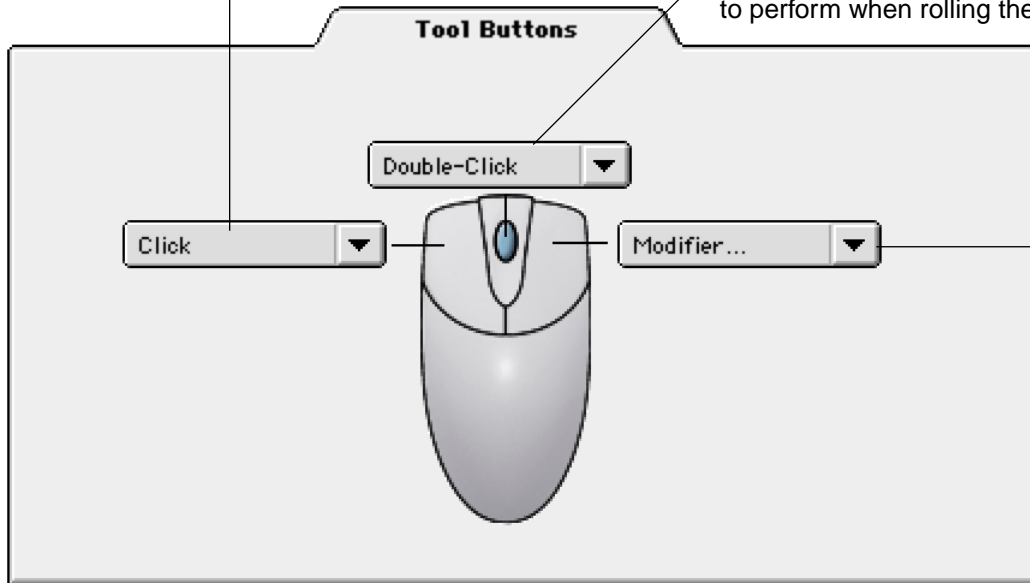


CUSTOMIZING THE GRAPHIRE2 CORDLESS MOUSE

To modify your Graphire2 Cordless Mouse button settings, select the TOOL BUTTONS tab.

Select the function to perform when pressing the left button.

Select the function to perform when clicking the fingerwheel button. Refer to [Customizing the Cordless Mouse Fingerwheel](#) to select the function to perform when rolling the fingerwheel.



Select the function to perform when pressing the right button.

As with the Graphire2 Pen, you can select a function to perform for each button from the button pull-down menus. Refer to [Button Functions](#) for a description of the available options.

The Graphire2 Cordless Mouse buttons are chordable; you can press two or more buttons simultaneously and the functions will occur. For example, if you program one button to simulate the SHIFT key and another to simulate a click function, when you press both buttons a SHIFT+CLICK is simulated.



CUSTOMIZING THE CORDLESS MOUSE FINGERWHEEL

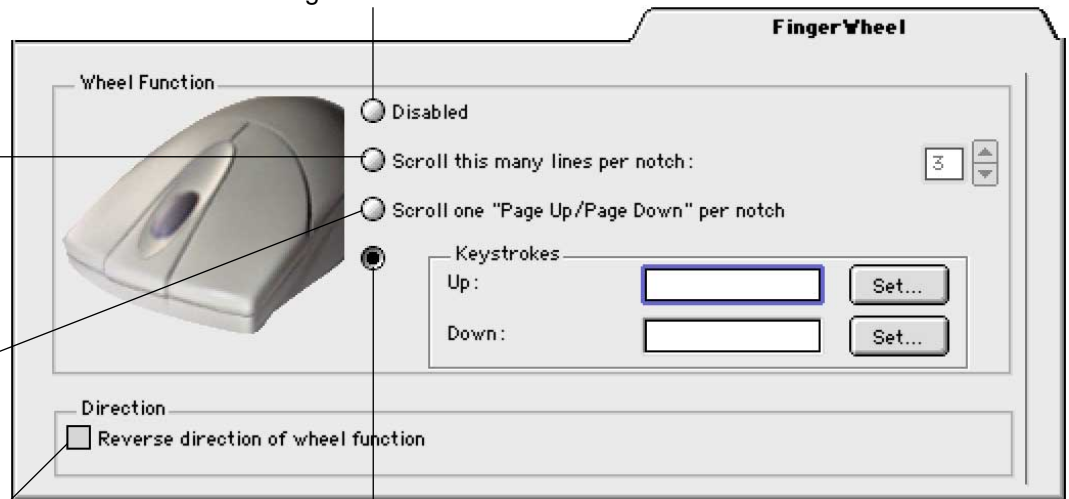
To customize your Graphire2 Cordless Mouse fingerwheel, choose the FINGERWHEEL tab.

Sets the fingerwheel to scroll the selected number of lines for each notch of fingerwheel movement (in most applications). Enter a value (1 to 15) to set the amount of movement. Roll the fingerwheel forward to scroll up, and back to scroll down.

Sets the fingerwheel to scroll one screen for each notch of fingerwheel movement.

When checked, the functions assigned for the forward and backward direction of the fingerwheel are exchanged.

Disables the fingerwheel function.



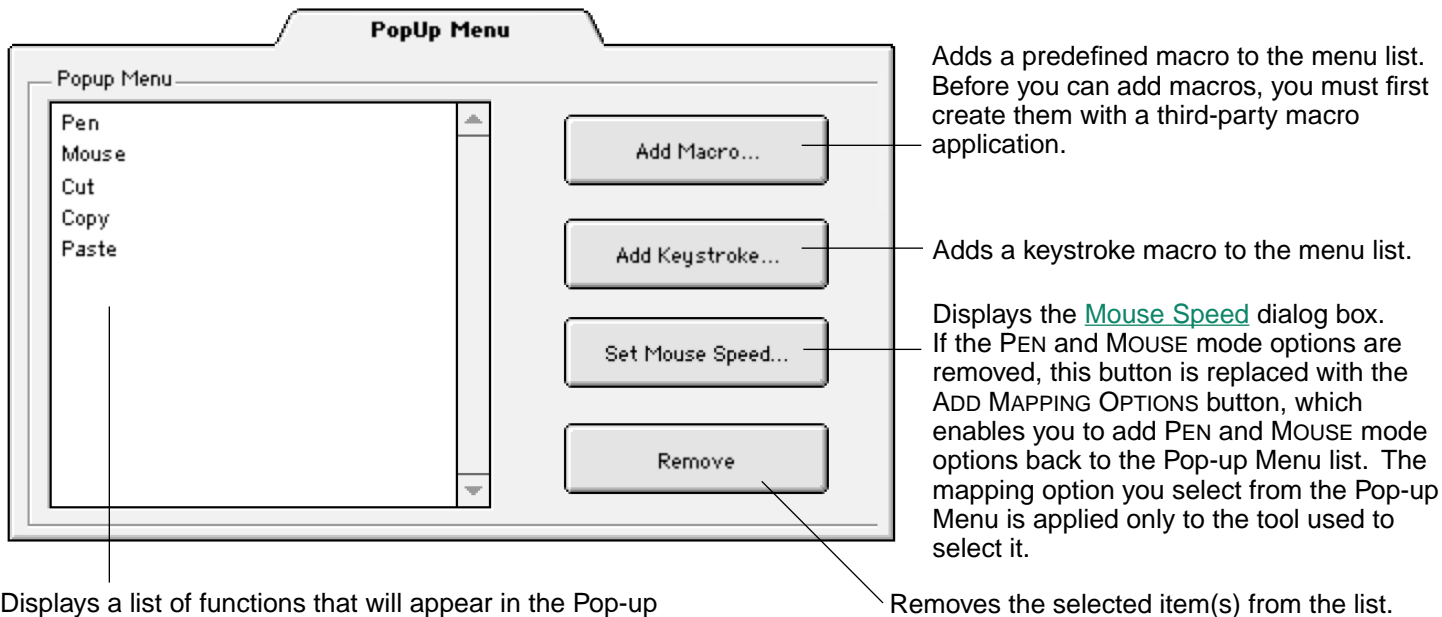
The KEYSTROKES radio button sets the fingerwheel to issue a keystroke for each notch of wheel movement. This is useful when working with repetitive functions (such as zooming in Photoshop, or moving forward and backward within your internet browser). Click the appropriate SET... button to enter a keystroke function. The keystroke setting will be displayed in the UP or DOWN box.



CUSTOMIZING THE POP-UP MENU

Select the POP-UP MENU tab to customize the available functions on the Pop-up Menu list. The Pop-up Menu list may include predefined macros, keystroke functions, and mapping options.

To display the Pop-up Menu, set one of your tool buttons to the POP-UP MENU function. Whenever you push that button, the Pop-up Menu is displayed. Select items in the Pop-up Menu by clicking on them. To close the Pop-up Menu without making a selection, just click outside the Pop-up Menu.



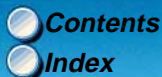
ADD MACROS

To add a macro to the Pop-up Menu, click on the ADD MACRO... button. A dialog box will appear where you can select the name of a macro function to add. You can also set different macros for different applications. See [Working with Application-Specific Settings](#) for more information.

Note: Before you can add screen macros, you must first create them with a third-party macro application.

ADD KEYSTROKES

To add a keystroke definition to the Pop-up Menu, click on the ADD KEYSTROKE... button. A dialog box will appear where you can specify and name the keystroke function. You can also create different keystroke functions for different applications. See [Working with Application-Specific Settings](#) for more information.



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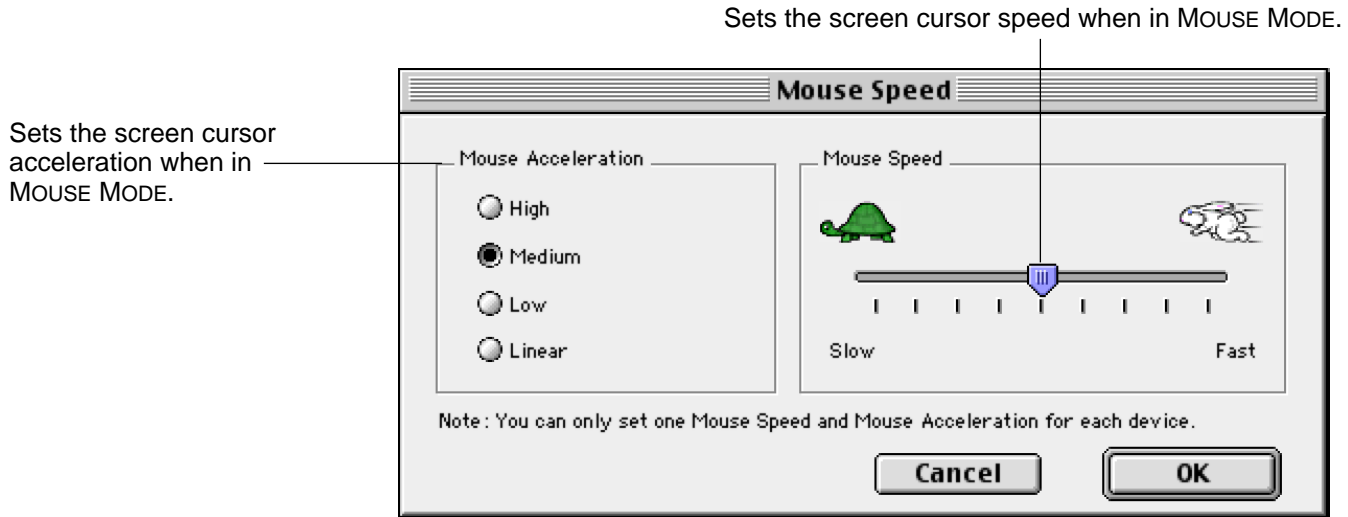


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SETTING MOUSE SPEED

To change the screen cursor acceleration and speed when in MOUSE MODE, click on the SET MOUSE SPEED... button (located on the POP-UP MENU tab) to display a dialog box where you can make your adjustments. If you removed the PEN and MOUSE mode options from the menu list, this button is replaced with the ADD MAPPING OPTIONS button, which enables you to add PEN and MOUSE mode options back to the Pop-up menu list.



Note: The MOUSE SPEED dialog box will also appear when you first set a tool button to MODE TOGGLE... from the TOOL BUTTONS tab.



ADD MAPPING OPTIONS

Click on the ADD MAPPING OPTIONS button (when visible) to add the following mapping options to the Pop-up Menu list: [Pen mode](#) and [Mouse mode](#).

REMOVING POP-UP MENU OPTIONS

To remove mapping option(s), macro(s), or keystroke function(s) from the Pop-up Menu list, select the function(s) you wish to remove and click the REMOVE button. Mapping options must be added or removed as a single item.



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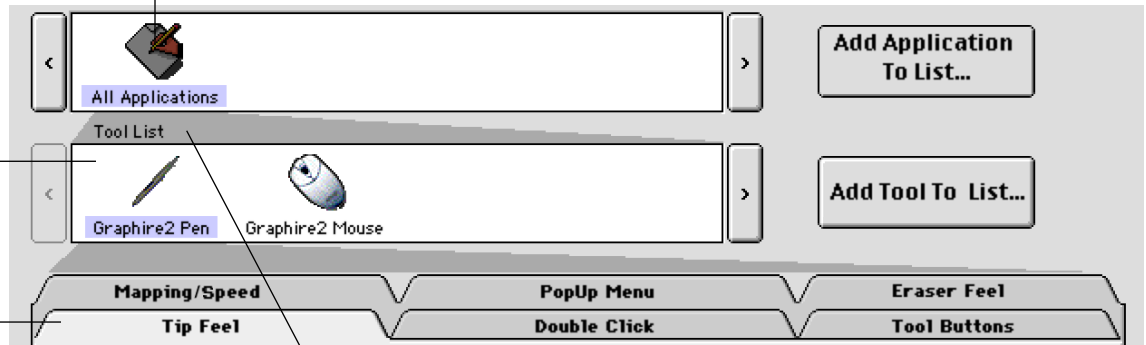
WORKING WITH GRAPHIRE2 TOOLS

The Wacom control panel is designed to help you customize and keep track of your Graphire2 tool settings. The tool you use to open the control panel is automatically selected, and the appropriate tabs for that tool are displayed.

If application-specific settings have not been added, the ALL APPLICATIONS icon is displayed and the tool settings apply for all applications.

The TOOL LIST displays icons for tools that are customized for the above selected application.

Tab settings apply only to the selected tool and application.



Your current selections are highlighted. Wedges emphasize the relationship between tab settings and the selected tool and application.



ADDING A TOOL

When you place a Graphire2 Pen or Cordless Mouse on the tablet, it is automatically added to the control panel's TOOL LIST and will function with its default settings. You can customize a tool by opening the Wacom control panel and changing the tab settings. When you select a tool from the TOOL LIST, the appropriate tab settings for that tool are displayed. Any changes you make to the tab settings will then apply to that tool. Your changes are permanently saved when you close the control panel.



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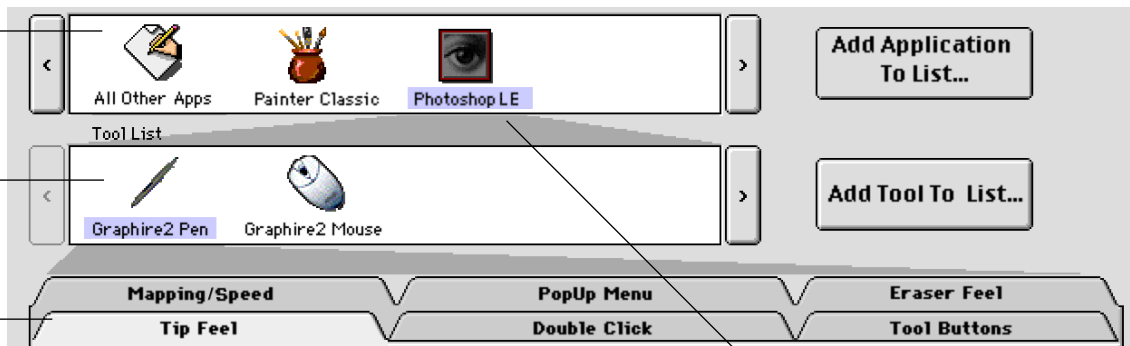
WORKING WITH APPLICATION-SPECIFIC SETTINGS

You may wish to have different tool settings for a particular application. The APPLICATION LIST lets you customize your Graphire2 tablet and tool settings for individual applications.

The APPLICATION LIST displays icons for applications with customized settings.

The TOOL LIST displays icons for tools that are customized for the above selected application.

Tab settings apply only to the selected tool and application.



Your current selections are highlighted. Wedges emphasize the relationship between tab settings and the selected tool and application.



If application-specific settings have not been created, a single icon labeled ALL APPLICATIONS is displayed in the APPLICATION LIST, and the tool settings displayed in the tabs are applied to all applications.

When a second application is added to the APPLICATION LIST, the ALL APPLICATIONS icon changes to ALL OTHER APPS, and a new icon is displayed for the new application settings.

If you select the ALL OTHER APPS icon and make changes to the tab settings, your changes will apply to all applications except the specific one(s) you have added to the list. If you select the icon for a specific application and make changes to the tab settings, your changes will apply to only that application.

When ALL APPLICATIONS or ALL OTHER APPS is selected in the APPLICATION LIST, the TOOL LIST displays icons for the Graphire2 Pen and Cordless Mouse. When an icon for a specific application is selected from the APPLICATION LIST, the TOOL LIST only displays the Graphire2 tools that you have added for the selected application. When you create an application-specific setting, you are, in a sense, creating a separate TOOL LIST for the application.



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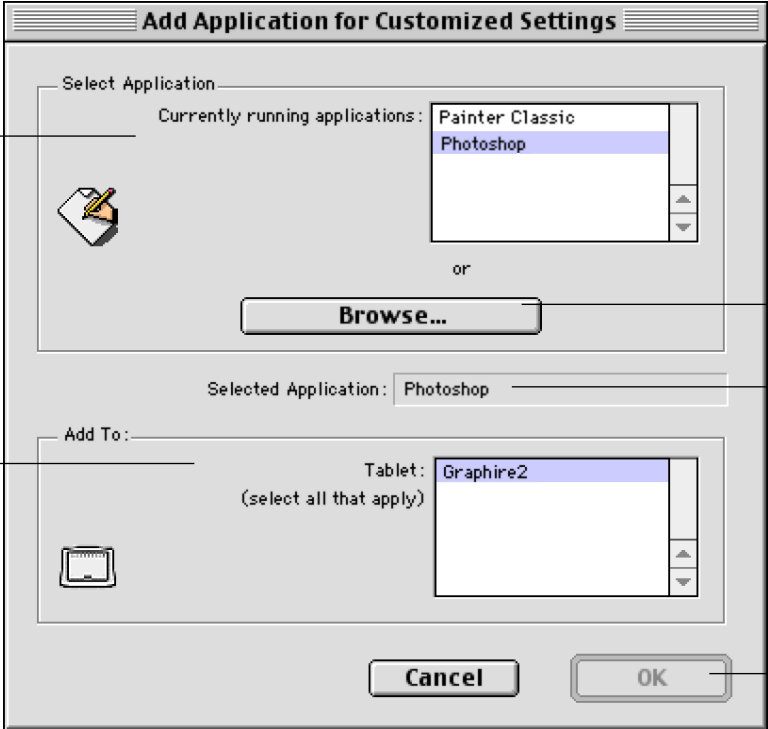


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CREATING AN APPLICATION-SPECIFIC SETTING

To create an application-specific setting, click on the ADD APPLICATION TO LIST... button or select APPLICATIONS FOR CUSTOM SETTINGS... from the ADD pull-down menu. The ADD APPLICATION FOR CUSTOM SETTINGS dialog box appears.



The screenshot shows the 'Add Application for Customized Settings' dialog box. It has a title bar with the text 'Add Application for Customized Settings'. The dialog is divided into two main sections. The top section is titled 'Select Application' and contains a list of 'Currently running applications' with 'Painter Classic' and 'Photoshop' listed. Below this list is a 'Browse...' button. The bottom section is titled 'Add To:' and contains a 'Selected Application:' field with 'Photoshop' entered. Below this is a 'Tablet:' list with 'Graphire2' selected. At the bottom of the dialog are 'Cancel' and 'OK' buttons. Callouts with lines pointing to various elements provide instructions: 'Select an application to add to the APPLICATION LIST. Only applications that are currently running and that have not previously been added to the APPLICATION LIST are displayed.' points to the application list; 'Browse to select the executable file of any application installed on your computer.' points to the 'Browse...' button; 'Displays the name of the selected application.' points to the 'Selected Application:' field; 'If you have more than one tablet, select the tablet(s) for which to add application-specific settings.' points to the 'Tablet:' list; and 'Click OK to continue.' points to the 'OK' button.

Select an application to add to the APPLICATION LIST. Only applications that are currently running and that have not previously been added to the APPLICATION LIST are displayed.

Browse to select the executable file of any application installed on your computer.

Displays the name of the selected application.

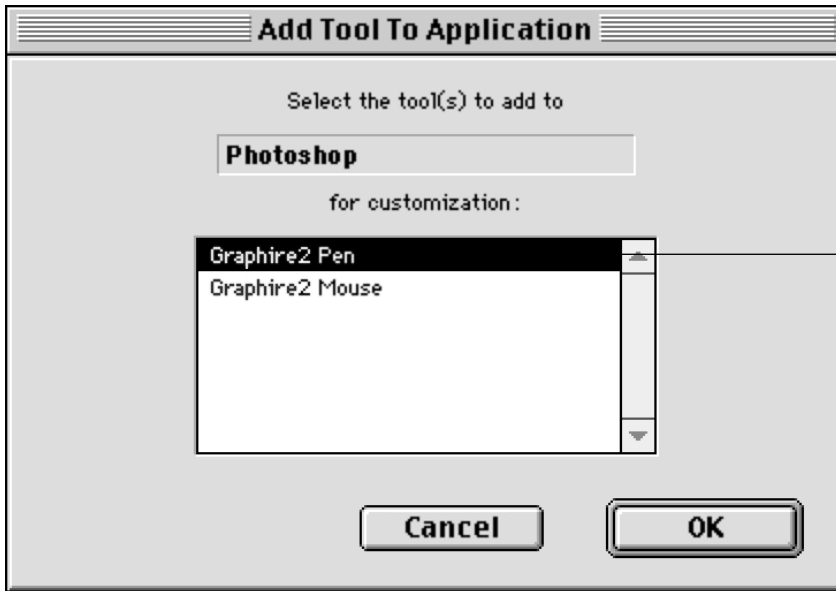
If you have more than one tablet, select the tablet(s) for which to add application-specific settings.

Click OK to continue.

Note: First customize settings for one application. When you feel comfortable using application-specific settings, you can create more application-specific settings.



If you have used both the Graphire2 Pen and Cordless Mouse on the tablet, the ADD TOOL TO APPLICATION dialog box is displayed. Choose one or both tools to add to the TOOL LIST for this application. By default, the tool in your hand is selected. Click OK to confirm your selection.



Lists the tools that can be customized.

Note: If a tool is not selected it will continue to work with the settings specified for ALL OTHER APPS.

After you have added an application, its icon appears in the APPLICATION LIST. When you select the application icon, the TOOL LIST displays only the tool(s) that have application-specific settings for the application. If a tool does not appear in the TOOL LIST for the application, it will use the settings for ALL OTHER APPS. In the TOOL LIST you can select a tool and then use the tabs to change the tool settings.



ADDING A TOOL TO AN APPLICATION'S TOOL LIST

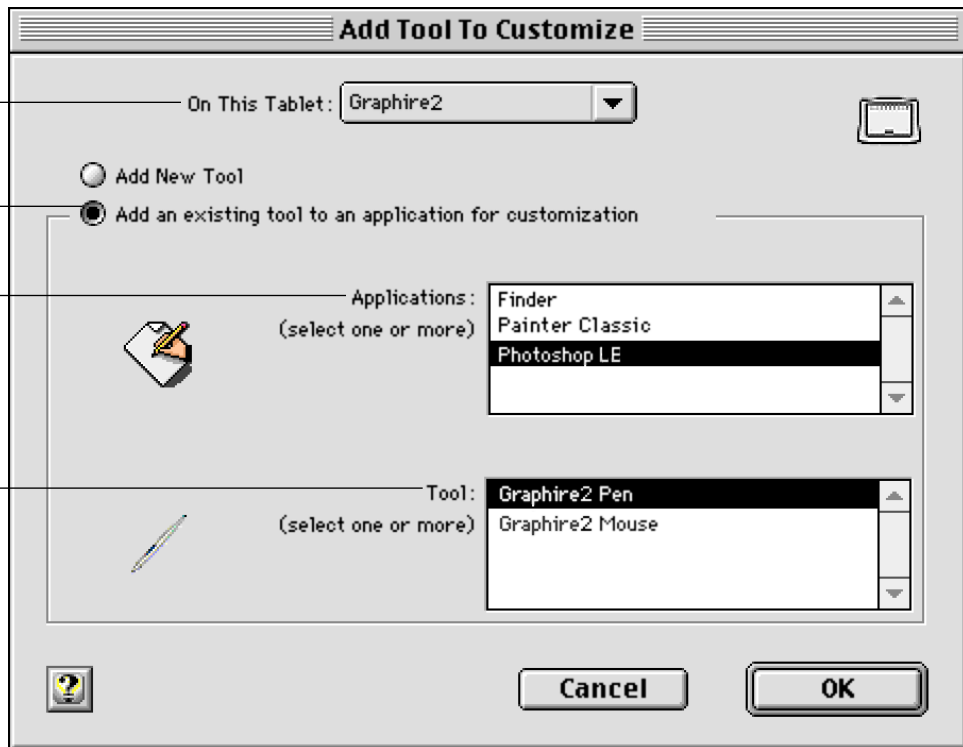
To add a tool to an application's TOOL LIST, click on the ADD TOOL TO LIST... button or select TOOL TO CUSTOMIZE... from the ADD pull-down menu. The ADD TOOL TO CUSTOMIZE dialog box appears. Choose the application and tool to create settings for. Click OK to confirm your selection. The dialog box will close, and the tool will appear in the TOOL LIST for the chosen application.

If you have more than one tablet, select the tablet(s) for which to add application-specific settings.

First select ADD EXISTING TOOL TO APPLICATION.

Choose an application. Only applications that have been added to the APPLICATION LIST are displayed.

Select a tool. The tool that has not been added to the TOOL LIST for the selected application is automatically displayed.



CHANGING SETTINGS FOR A SPECIFIC APPLICATION AND TOOL

To change settings for a specific application and tool combination, from the APPLICATION LIST choose the application you want to change tool settings for. From the TOOL LIST, choose the tool you want to customize. Change the tab settings for the selected application and tool combination.

REMOVING APPLICATION-SPECIFIC SETTINGS

To remove application-specific settings:

1. Open the REMOVE menu and select CUSTOM SETTINGS FOR APPLICATION....
2. In the REMOVE CUSTOM SETTINGS FOR APPLICATION dialog box, select the application(s) for which you want to remove the custom settings and click OK.

To remove application-specific settings for a tool:

1. Select CUSTOMIZED TOOL... from the REMOVE pull-down menu.
2. In the REMOVE CUSTOMIZED TOOL dialog box, select the tool to remove. Then click on the REMOVE FROM radio button and select the application that you want to remove the tool from.
3. Click OK to confirm your selections.



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PULL-DOWN MENUS

Use the pull-down menus to access additional custom settings options, a language selection menu, and online documentation. Help is available for most dialog boxes that appear when you make a menu selection—just click on the dialog box  button for detailed information on settings and options.



FILE

The File menu contains the following options:

- **SUMMARY....** Provides a summary of your current settings.
- **CLOSE.** Closes the control panel and saves any changes.
- **QUIT.** Closes the control panel and saves any changes.

EDIT

The EDIT menu contains the following options:

- **COPY SETTINGS TO....** Opens a dialog box where you can copy your customized settings to another tool or application. You can also access this dialog box by clicking on the COPY SETTINGS TO... tab button.
- **RESET SETTINGS....** Opens a dialog box where you can reset your customized settings to their factory default values.
- **RENAME TOOL....** Opens a dialog box where you can assign custom names to your tools.
- **PREFERENCES....** Opens a dialog box where you can change general Graphire2 operating preferences.



ADD

The ADD menu contains the following options:

- **TABLET....** Opens a dialog box where you can add one or more tablets. Refer to [Installing Multiple Tablets](#) for information on adding multiple tablets.
- **APPLICATION FOR CUSTOM SETTINGS....** Opens a dialog box where you can add an application to the APPLICATION LIST. This is also accessed by clicking on the ADD APPLICATION TO LIST... button. Refer to [Working with Application-Specific Settings](#) for more information.
- **TOOL TO CUSTOMIZE....** Opens a dialog box where you can add a tool to the control panel TOOL LIST. This is also accessed by clicking on the ADD TOOL TO LIST... button. Refer to [Adding a Tool](#) for more information.

REMOVE

The REMOVE menu contains the following options:

- **TABLET....** Opens a dialog box where you can remove one or more tablets from the control panel driver.
- **CUSTOM SETTINGS FOR APPLICATION....** Opens a dialog box where you can remove custom tool settings from an application.
- **CUSTOMIZED TOOL....** Opens a dialog box where you can remove customized tools.

Note: If only one item is available for a particular REMOVE menu option, the option will be dimmed. For example, if you have only one tool the CUSTOMIZED TOOL... option will be dim.



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LANGUAGE

The LANGUAGE menu allows you to switch between English and other installed languages. Typically, the language of the operating system is installed when you install the driver, but other languages can be specified during a custom install.

HELP

The HELP menu contains the following options:

- **HELP....** Displays online Help.
- **USER'S MANUAL....** Displays the *Graphire2 User's Manual for Macintosh*.
- **GETTING STARTED....** Displays an overview of the control panel.
- **DIAGNOSTICS....** Displays diagnostics information for your Graphire2 tablet and tools.



ADVANCED FEATURES

You can use advanced features to further customize your Graphire2 pen and mouse set for the way you like to work.

[ADVANCED TIP PRESSURE SETTINGS](#)

[ADVANCED ERASER PRESSURE SETTINGS](#)

[COPYING SETTINGS](#)



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ADVANCED TIP PRESSURE SETTINGS

To customize advanced tip pressure settings, from the TIP FEEL tab select MORE OPTIONS. The advanced options enable you to change the click pressure and pressure curve settings independently. (In the basic options display, these settings are adjusted simultaneously with the TIP PRESSURE FEEL slider.)

Important: The TIP PRESSURE FEEL slider overrides the advanced pressure settings. If you customize advanced settings, then drag the TIP PRESSURE FEEL slider, your advanced settings will be removed.

Use these controls to manually change the pressure curve shape.

The screenshot shows the 'Tip Feel' settings panel. At the top is a 'Tip Pressure Feel' slider with a 'Fewer Options' button to its right. Below the slider are three sections: 'Test', 'Manual', and 'Automatic'. The 'Test' section has a 'Draw Here' area and a 'Click' button. The 'Manual' section has a 'Click Force' input (set to 20), a 'Reported Pressure' vs 'Tip Force' graph, and a 'Tip Force' input (set to 100). The 'Automatic' section has a grid for 'Draw Strokes to Set Maximum Force' and a 'Start Over' button. A blue checkmark is visible in the top right corner.

Toggles to the basic options display.

After you set advanced settings, a checkmark appears.

Use this area to automatically set the maximum amount of force to use when drawing.

Test the results of your changes before you apply them.

The pressure curve graphically displays the relationship between force applied to your tool and pressure reported to an application.

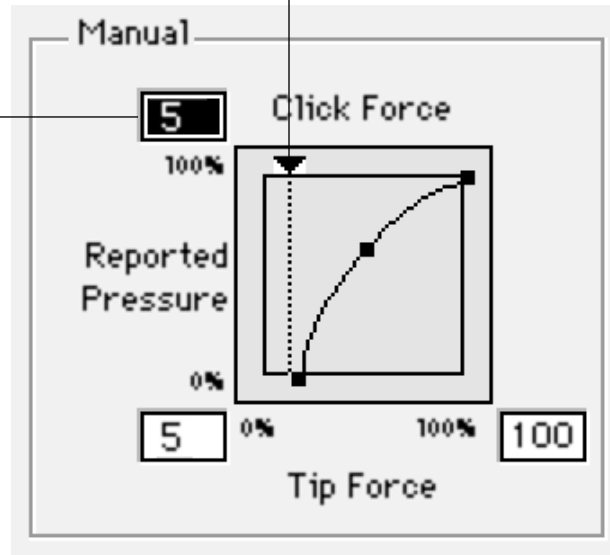


CLICK FORCE ADJUSTMENT

The click force setting adjusts the amount of force required to generate a button click.

The CLICK FORCE bar graphically displays the force level at which a click occurs.

Enter a value from 1 to 50% or drag the CLICK FORCE bar to set the force at which a click occurs.



Note: For optimal performance in graphics applications, set the click force and minimum tip force to the same value.

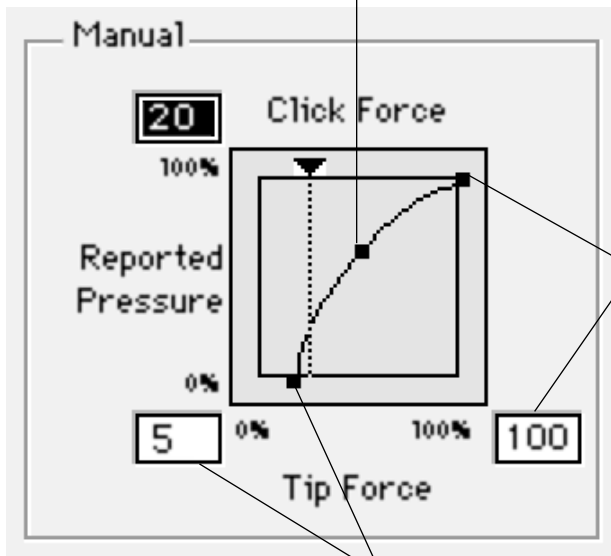


PRESSURE CURVE ADJUSTMENT

Changing the shape of the pressure curve will change the feel of the pen tip. A pressure curve that increases quickly makes the tip feel more sensitive to changes in force.

The control points at each end of the pressure curve set the minimum and maximum amount of force your pen will respond to. If you have a soft touch and want to achieve full pressure without having to apply full force to your pen, decrease the maximum force level. You can apply less force to your pen and still have the effects of full pressure. The default for maximum force is 100%.

To change curve shape, drag the control point to a new position.



Enter a value from 20 to 100%, or drag the MAXIMUM TIP FORCE control to set the maximum force your pen tip will respond to.

Enter a value from 0 to 80%, or drag the MINIMUM TIP FORCE control to set the minimum force that will register pressure.



To automatically set the maximum force for the way you draw, click the **START OVER** button and draw in the scratch pad area. As you draw, the **MAXIMUM TIP FORCE** control moves, and the value in the edit box changes to reflect the peak pressure registered by your hand movements. To start over, click the **START OVER** button and begin a new drawing.



While applying normal pressure to the pen tip, draw several strokes here to automatically set the maximum force value.

Click here to reset maximum force value to the start value for this test.



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ADVANCED FEATURES

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ADVANCED ERASER PRESSURE SETTINGS

To customize advanced eraser pressure settings, select the ERASER FEEL tab and click on the MORE OPTIONS button. You work with the advanced eraser settings in the same manner as with the [Advanced Tip Pressure Settings](#).

Important: The ERASER PRESSURE FEEL slider overrides the advanced pressure settings. If you customize advanced settings, then drag the ERASER PRESSURE FEEL slider, your advanced settings will be removed.



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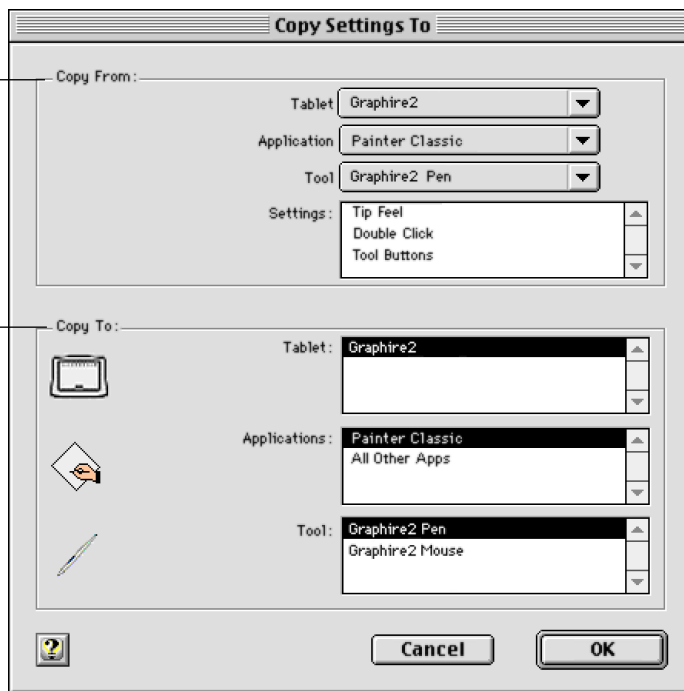
COPYING SETTINGS

To copy settings between tools or to another application, choose the COPY SETTINGS TO... option from the EDIT menu or click on the COPY SETTINGS TO... button. A dialog box is displayed where you can copy settings from one tool to another within the same application or between different applications.

Note: If you copy settings between the Graphire2 Pen and Cordless Mouse, only those settings common to both tools (such as mapping settings) can be copied.

Choose from where settings will be copied.

Select where settings will be copied to.



HAVING TROUBLE?

Most of the time your tablet will work flawlessly. But if you are having trouble, Wacom recommends you do the following:

1. Refer to the troubleshooting procedures described in this chapter.
2. Look in the troubleshooting tables. Your problem may be described there and you can try the solution offered.
3. Open the Graphire2 Read Me file for late-breaking information.
4. If you are having a compatibility conflict between Graphire2 and a new hardware or software product, it may be helpful to download a new Wacom tablet software driver. Wacom periodically updates the software driver to maintain compatibility with new products. See [Who to Call](#) for your region.
5. Check the FAQs (Frequently Asked Questions) on the Wacom web site for your region. See [Who to Call](#).
6. If you have tried the suggestions in this manual and still cannot resolve the problem, then contact Wacom for Technical Support.

[TROUBLESHOOTING](#)

[TROUBLESHOOTING TABLES](#)

[CONTACTING TECHNICAL SUPPORT](#)



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TROUBLESHOOTING

If the Wacom Tablet driver failed to load properly, first perform the recommended action in the error message on your screen. If that does not solve the problem, perform the following tests for your tablet or tool(s) to determine whether the source of the problem is the tablet hardware or a software conflict.

TESTING USB TABLETS

RESOLVING SOFTWARE CONFLICTS

TESTING YOUR GRAPHIRE2 TOOLS

TESTING USB TABLETS

Make sure your computer is turned on, the operating system has finished loading, and Graphire2 is properly connected to an active USB port. Then try the following tests:

1. **Check power to the tablet.** The tablet's orange status LED will light whenever Graphire2 is properly connected and your computer has registered it as a USB device. If the LED is on, continue with step 2. If the LED is off:
 - Make sure the USB cable is securely connected to an active USB port.
 - If you are connecting the tablet to a USB hub (or hub device such as a keyboard with USB ports), be sure the USB hub is properly connected to your computer and is active.
 - Connect Graphire2 into a different USB port or try connecting to the USB port on another computer.
 - If the tablet's status LED does not illuminate after your computer is on and has finished booting up, your USB port may be inactive. See [Verifying Your Macintosh is USB Ready](#).



2. **Check the pen.** Move your Graphire2 Pen across the active area of the tablet; the screen cursor should move in the corresponding direction on your monitor. Press the pen tip against the tablet surface. The status LED on the tablet should turn from orange to green. Now, without applying pressure to the pen tip, press the side switch. The status LED should again change from orange to green. Turn the pen over and press the eraser against the surface of the tablet; the status LED should change from orange to green. If not, you may have a defective pen or tablet. See [Contacting Technical Support](#).

Verifying Your Macintosh is USB Ready

If the tablet LED does not light, your computer may not have the necessary USB software installed, or may not be configured properly.

- If you added a USB interface card you must also install system software to support the USB card. Otherwise, if your computer came from the factory with a USB port installed, it should be USB ready.
- Plug in another USB device to verify that the USB port is functional.



RESOLVING SOFTWARE CONFLICTS

If you are troubleshooting and found no problems with the tablet hardware, or if the WACOM TABLET icon appears with a red X through it when starting your computer, follow the steps below to locate a possible software conflict. (A red X through the WACOM TABLET icon means the Wacom tablet driver failed to load properly.)

Using the Extensions Manager

You can use the Extensions Manager to resolve a software conflict:

1. Restart your computer with the SHIFT key held down. When the system has fully booted, release the SHIFT key. Then from the Apple menu choose CONTROL PANELS and EXTENSIONS MANAGER.
2. From the SELECTED SET drop-down menu, select the SYSTEM BASE extension set.
3. Place a checkmark next to the WACOM TABLET driver in the list of CONTROL PANELS. You will be prompted to create a duplicate set. Give the set a name, such as “test”. Then again select the WACOM TABLET item and restart your computer.
4. If the system starts up successfully with the WACOM TABLET item active, open the Extensions Manager. Turn on three of the disabled items and restart. Repeat this process until all items are on or until the system crashes.
5. If the system crashes again, restart the computer with the spacebar held down (this will bring up the EXTENSIONS MANAGER). The conflicting item is most likely one of the most recently enabled items.
6. Now turn off one or two of the items that appear to be the problem.
7. Repeat this process as necessary until you find the offending INIT. If the conflicting item is not required, leave it disabled. Otherwise, check if an updated version is available or contact Wacom Technical Support.



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TESTING YOUR GRAPHIRE2 TOOLS

From the Wacom control panel's HELP menu, select DIAGNOSTICS... to open the DIAGNOSTICS dialog box. The tablet driver version, tablet hardware and connection, and pointing device information is shown.

TESTING THE GRAPHIRE2 PEN

TESTING THE GRAPHIRE2 CORDLESS MOUSE

Testing the Graphire2 Pen

1. While observing the POINTING DEVICE INFO column, bring your Graphire2 Pen within proximity of the tablet. A value for proximity, the device name, and device type should be displayed.
2. Move the pen along the tablet surface. The X and Y DATA values should change to reflect the tool position.
3. Test your Graphire2 Pen buttons. The tablet's status LED should change color from orange to green each time you click with the pen tip, press the side switch, or press the pen's eraser to the tablet.
 - Click on the tablet surface with the pen tip—the SWITCHES state and PRESSURE value should change. (PRESSURE should change from approximately 0% with no pressure applied to approximately 100% when full pressure is applied.)
 - Next, press the side switch without pressing the tip to the tablet—the SWITCHES state should change. (Do this for both positions of the DuoSwitch.)

Tip = Tip, DuoSwitch (lower position) = b1, DuoSwitch (upper position) = b2, Eraser = Eraser
 - Then press the pen's eraser to the tablet—the SWITCHES state and PRESSURE value will change. (PRESSURE should change from approximately 0% with no pressure applied to approximately 100% when full pressure is applied.)
4. When you are done, click on the CLOSE button to exit the dialog box.



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Testing the Graphire2 Cordless Mouse

1. Test the buttons on your Graphire2 Cordless Mouse by clicking each button. The tablet's status LED should change color, and the SWITCHES state should change for each button you click.



Graphire2 Cordless Mouse

2. When the DIAGNOSTICS dialog box is first opened the WHEEL status should be 0. Move the fingerwheel backward. The WHEEL status should change from 0 to +1.
3. Move the fingerwheel forward. The WHEEL status should change to -1.
4. When you are done, click on the CLOSE button to exit the dialog box.



TROUBLESHOOTING TABLES

If you encounter problems with your Graphire2 tools or tablet, refer to the following tables. Your problem may be described here, and you can try the solution offered. Be sure you refer to the Read Me file for the latest troubleshooting information.

USB TABLET PROBLEMS

GENERAL PROBLEMS

USB TABLET PROBLEMS

The computer does not have an available USB port.	Check if there is an available USB port on a USB hub device. If none are available you will need to add a USB hub.
The tablet status LED is off.	Verify that your tablet's USB cable is properly connected to an active USB port. If you are connecting to a USB hub device, make sure the hub is connected to an active USB port and that the hub is active. Refer to Testing USB Tablets for instructions.
Graphire2 Pen only works in mouse mode and pressure does not function.	If the driver failed to load, see Resolving Software Conflicts . If it was not installed, double-click on the INSTALL icon (located on the Graphire2 Tablet CD), and complete the software installation.



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GENERAL PROBLEMS

At startup, a dialog box appears telling you that either the driver failed to load or the tablet preferences have not yet been created.

The tablet was not detected at startup. Make sure all cables are securely connected and that the status LED on the tablet is orange. If this does not correct the problem, see [Troubleshooting](#).

Double-clicking is difficult.

Be sure you are quickly tapping the tablet twice in the same place on the tablet's active area.

Wacom recommends using the side switch to double-click (review the techniques in [Clicking](#)).

Try increasing the DOUBLE-CLICK DISTANCE or reducing the double-click speed (see [Adjusting Double-Click](#)).

Try using a lighter TIP PRESSURE FEEL (see [Adjusting Tip Feel](#)).

The Graphire2 Pen selects everything, will not stop drawing.

Open the Wacom control panel and go to the tool's TIP FEEL tab. Move the TIP PRESSURE FEEL slider toward FIRM, or select the MORE OPTIONS button and increase the CLICK FORCE setting.

The eraser selects everything or will not stop erasing.

Open the Wacom control panel and go to the ERASER FEEL tab. Move the ERASER PRESSURE FEEL slider toward FIRM, or select the MORE OPTIONS button and increase the CLICK FORCE setting.



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You have to press hard with the Graphire2 Pen when clicking or drawing.

Open the Wacom control panel and go to the tool's TIP FEEL tab. Move the TIP PRESSURE FEEL slider toward SOFT, or select the MORE OPTIONS button and decrease the CLICK FORCE setting.

The Graphire2 Pen tip does not function.

Make sure the status LED changes from orange to green when the tip is pressed. If it does not, you may have defective hardware (see [Troubleshooting](#)).

Check the control panel's TOOL BUTTONS tab and verify that the tip is assigned to a CLICK function.

The side switch does not work.

Be sure you press the side switch when the pen tip is in proximity—do this without pressing down on the pen tip.

From the Wacom control panel, verify that the side switch is set to the proper function for the application and tool that you are using. Verify also that the SIDE SWITCH EXPERT MODE preferences option is deselected. (The PREFERENCES dialog box is accessed from the EDIT menu option.)

Make sure the tablet status LED changes from orange to green when you press the side switch. If it does not, you may have defective hardware (see [Troubleshooting](#)).

Changing the function settings for the Graphire2 tools has no effect.

Make sure that you change the settings for the tool and the application that you are using. See [Working with Graphire2 Tools](#) and [Working with Application-Specific Settings](#).



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The screen cursor jumps back when using your regular mouse or trackball.

Do not place the Graphire2 Pen or Cordless Mouse on the tablet when using another pointing device. Leaving your tool on the tablet may interfere with screen cursor positioning when using other input devices.

Cannot move the cursor where you want to on the screen, or the line you are drawing does not line up with the location of the pointer in paint applications.

Open the Wacom control panel and go to the MAPPING/SPEED tab. Verify that PEN MODE is selected and that the DISPLAY AREA is set to ENTIRE DISPLAY for the selected tool and application. If this does not help, click on the RESET TAB TO DEFAULTS button to reestablish tablet to screen mapping.

If this does not work, from the SYSTEM FOLDER open the PREFERENCES and TABLET folders. From the TABLET folder, drag the TABLET PREFERENCES file into the trash. Then restart your computer. When the tablet driver loads, it will create a new preferences file with the factory default settings.

You notice a screen delay at the beginning of pen strokes.

In the Wacom control panel, try decreasing the DOUBLE-CLICK DISTANCE or increasing the double-click speed (see [Adjusting Double-Click](#)). If that does not work, try unchecking the DOUBLE-CLICK ASSIST checkbox.

Within a graphics application, you have to press hard before the pen will start to draw.

In the Wacom control panel, select the Tip Feel tab and drag the TIP FEEL slider to the SOFT position.



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CONTACTING TECHNICAL SUPPORT

If you have a problem with your Wacom tablet, first check the tablet installation guide and [Having Trouble?](#) to be sure the tablet is installed correctly. If you cannot find the answer in this manual, you may find updated information about your problem in the Read Me file located on the Graphire2 Tablet CD. For information on accessing Wacom's 24-hour automated online support and for a directory of Wacom Technical Support numbers, see [Who to Call](#) for your region.

LINKING TO THE WEB PAGE

Answers to frequently asked questions and troubleshooting tips can be found on the appropriate web site for your area in [Who to Call](#).

PRE-CONTACT CHECKLIST

You might want to print a copy of this page for reference. When you call, you should be at your computer with the following information available:

- This manual.
- Tablet serial and model number. (Look on the bottom of the tablet.)
- Driver version number. (See the ABOUT WACOM CONTROL PANEL... or [Diagnostics](#) dialog box.)
- The make and model of your computer, and operating system version.
- A list of peripheral devices attached to your computer.
- The exact wording of any error message that appeared on your screen.
- What happened and what you were doing when the problem occurred.
- How you tried to solve the problem.



WHO TO CALL

If you think your Wacom tablet is not working properly, contact the Wacom support staff for the area where your product was purchased. If you have a modem, you can download the latest software drivers from the Internet.

[USA, CANADA, CENTRAL AND SOUTH AMERICA](#)

[EUROPE, MIDDLE EAST AND AFRICA](#)

[JAPAN](#)

[ASIA PACIFIC \(ENGLISH\)](#)



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USA, Canada, Central and South America

Contact your local distributor, or:

Worldwide Web: <http://www.wacom.com/productsupport>

24-hour Technical Support information:
FAQs—Frequently Asked Questions
and answers.

Software updates.

Email support.

Anonymous FTP Site: <ftp.wacom.com/pub/drivers>

Software updates.

Phone: ++1-360-896-9833

Technical Support. (English)
(7:30 am to 5:00 pm, Pacific Time)

FAX: ++1-360-896-9724

Technical Support. (English)

Internet Email: support@wacom.com

Automated mailback support. (English)

To purchase parts and accessories, call toll-free: 1-888-884-1870 (USA and Canada only) or visit Wacom's web site at <http://www.wacom.com/wacomdirect/> (USA only). Outside of the USA and Canada, please contact your local dealer or distributor.



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Europe, Middle East and Africa

Contact your local distributor, or:

Worldwide Web:	http://www.wacom.de	Software updates, Online support database.
Anonymous FTP Site:	ftp.wacom.de/pub	Software updates.
Phone (Austria):	++43-(0)1-790 825 550	Technical Support.
Phone (Belgium):	++32-(0)2-275 0691	Technical Support.
Phone (France):	++33-(0)1-7020 0070	Technical Support.
Phone (Germany):	++49-(0)69-6630 8200	Technical Support.
Phone (Italy):	++39-(0)2-4528 7050	Technical Support.
Phone (Netherlands):	++31-(0)20-517 4705	Technical Support.
Phone (Switzerland):	++41-(0)1-212 2818	Technical Support.
Phone (United Kingdom):	++44-(0)207-744 0831	Technical Support.
Phone (other countries):	++49-(0)180-500 4397	Technical Support.
FAX:	++49-(0)180-500 4398	Technical Support.
Internet Email:	support@wacom.de	Technical Support.

To purchase parts and accessories, please contact your local dealer or distributor. You can also contact Technical Support using the appropriate number for your region.



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Japan

Contact your local distributor, or:

Worldwide Web:	http://tablet.wacom.co.jp	Software updates and information. (Japanese)
Phone:	++81-(0)47-380-8877	Technical Support. (Japanese)
FAX:	++81-(0)47-380-8711	Technical Support. (Japanese)
Internet Email:	tablet@wacom.co.jp	Technical Support and sales. (Japanese)

To purchase parts and accessories, please contact your local dealer or distributor.

Asia Pacific (English)

Contact your local distributor, or:

Worldwide Web:	http://www.wacom.com	Software updates and information. (English)
Phone:	++81-(0)3-3371-1595	Technical Support. (English)
FAX:	++81-(0)3-3371-1468	Technical Support. (English)
Inquiry Form:	http://ap.wacom.co.jp/faq/tablet/inquiry_form.html	Technical Support. (English)

To purchase parts and accessories, please contact your local dealer or distributor.



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APPENDICES

This section contains information on working with multiple tablets. You will also find product specifications, a listing of available parts and accessories, and license and warranty information.

[UNINSTALLING THE SOFTWARE](#)

[REGISTRATION](#)

[PRODUCT INFORMATION](#)

[INSTALLING MULTIPLE TABLETS](#)

[PRODUCT SPECIFICATIONS](#)

[PARTS AND ACCESSORIES](#)

[LICENSE AND WARRANTIES](#)

[LICENSE AND WARRANTIES \(EUROPE\)](#)



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UNINSTALLING THE SOFTWARE

To remove the Graphire2 software from your system:

1. Insert the Graphire2 Tablet CD into your computer and double-click on the INSTALL icon.
2. Select REMOVE instead of INSTALL.

REGISTRATION

Please be sure to register your product. Depending on your region, the Wacom tablet may come with a Registration Card that you should complete and mail, or you may be prompted to register online during the installation process.

PRODUCT INFORMATION

To learn more about which software applications currently support the pressure-sensitivity and eraser functions of your Graphire2 tablet and tools, visit the Wacom web site for your region:

USA, Canada, Central and South America	http://www.wacom.com/productinfo
Europe, Middle East and Africa	http://www.wacom.de/productinfo
Japan	http://tablet.wacom.co.jp
Asia Pacific (English)	http://www.wacom.com



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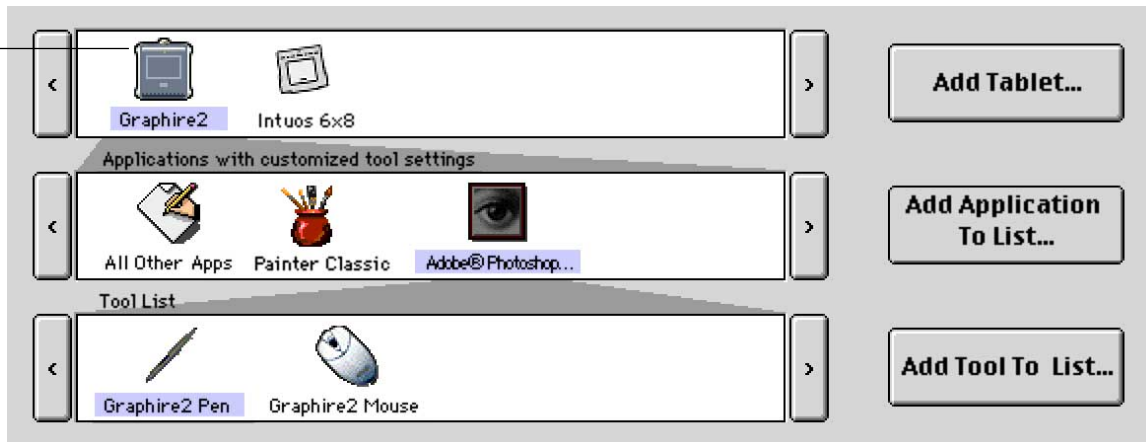
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INSTALLING MULTIPLE TABLETS

If multiple Wacom tablets are installed on a single computer when the Wacom control panel is opened, a **TABLET LIST** is displayed above the **APPLICATION LIST**. The **TABLET LIST** contains an icon for each installed tablet, and allows you to select the tablet for which your changes will apply.

Select a tablet icon for which to customize application and tool settings.



- To add an additional USB tablet, connect it to a USB port. When the new tablet is found, it is automatically initialized.
- If multiple tablets are installed, the tablet used to open the Wacom control panel is selected as the default tablet.



PRODUCT SPECIFICATIONS

GRAPHIRE2 TABLET (MODEL ET-0405A-U)

Active area (W x D)	127.6 x 92.8 mm (5.02 x 3.65 in)
Physical size (W x D x H)	216.1 x 218.0 x 9.3 mm (8.51 x 8.58 x 0.37 in), excluding pen stand 216.1 x 218.0 x 26.3 mm (8.51 x 8.58 x 1.04 in), including pen stand
Cable length	1.5 m (4.9 ft)
Weight	426 g (0.94 lb), approximately
Power consumption	0.2 watts
Coordinate resolution	40 lpmm (1000 lpi)
Accuracy	+/- 0.5 mm (0.02 in)
Maximum report rate	100 points per second
Communication interface	USB
Connector	USB A
Power requirements	DC 5V, 40 mA, from USB port
Operating temperature	5 to 40 degrees C (41 to 104 degrees F)
Storage temperature	-10 to +60 degrees C (14 to 140 degrees F)
Operating relative humidity	20% to 80% noncondensing
Storage relative humidity	20% to 90% noncondensing
Certification	FCC class B
Compliance	VCCI Class B, CE



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GRAPHIRE2 PEN (MODEL EP-120E)

Physical size (L x D)	145 x 12.5 mm (5.71 x 0.49 in)
Pressure levels	512 levels
Pen tip travel	0.1 mm (0.004 in) or less
Eraser tip travel	0.1 mm (0.004 in) or less
Weight	11 g (0.02 lb), approximately
Tip refill type	Polyacetal (Part No. PSI-A007)

GRAPHIRE2 CORDLESS MOUSE (MODEL EC-120)

Physical size (L x W x H)	116.0 x 58.0 x 37.0 mm (4.57 x 2.28 x 1.47 in), approximately
Weight	90 g (0.20 lb), approximately
Fingerwheel type	Continuous rotation, 24 clicks per turn

GRAPHIRE2 INKING PEN (MODEL EP-200, OPTIONAL)

Pen tip travel	0.1 mm (0.04 in) or less
Pressure levels	512 levels
Physical size (L x D)	151 x 12.5 mm (5.94 x 0.49 in)
Weight	12 g (0.42 oz), approximately
Tip refill types	Polyacetal (Part No. PSI-A011) Ink refill, black (Part No. PSI-A023)



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PARTS AND ACCESSORIES

Description

Part Numbers

	Steel Blue	Bronze	Ruby
Graphire2 USB Tablet		ET-0405A-U	
Graphire2 Pen		EP-120E	
Graphire2 Cordless Mouse		EC-120	
Overlay Sheet		PSH-A227	
Pen Stand		PST-A027	
Replacement Tips for Pen (EP-120E models)		PSI-A007	
Pen Tether		FUZ-A089	
Graphire2 Inking Pen		EP-200-00-01	

ORDERING PARTS AND ACCESSORIES

To purchase parts and accessories, see who to call for your region:

[USA, CANADA, CENTRAL AND SOUTH AMERICA](#)

[EUROPE, MIDDLE EAST AND AFRICA](#)

[JAPAN](#)

[ASIA PACIFIC \(ENGLISH\)](#)



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47807 Krefeld
GERMANY



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GLOSSARY

Active area. The drawing area of the tablet where your Graphire2 tools are detected.

Application-specific settings. Graphire2 tool and tablet settings that have been customized for individual applications. The control panel enables you to program a tool to behave uniquely in different applications. Your application-specific settings are in effect whenever you use the application.

Aspect. The ratio between the vertical and horizontal dimension of the tablet or display. The ASPECT setting is located on the MAPPING/SPEED tab, and defines how the tablet area is mapped to the display area. This setting determines if the aspect of the tablet and display are the same. It also determines if a 1:1 scale will be maintained between the tablet and display.

Click force. The amount of force you must apply to your Graphire2 Pen tip for a click to occur.

Double-click assist. A control panel option that makes it easier to double-click. When selected, you can customize the double-click speed and distance.

Double-click distance. The maximum distance (in screen pixels) that the cursor can move between clicks and still be accepted as a double-click. Increasing the double-click distance makes double-clicking easier, but may cause a delay in brush strokes in some graphics applications.



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Double-click speed. The maximum time that can pass between clicks and still be accepted as a double-click. Increasing the double-click time makes double-clicking easier.

Eraser-aware application. A software application that has built-in support for the Graphire2 eraser. These applications take advantage of the eraser in different ways, depending on what makes sense for the application.

Fingerwheel. The control wheel on the Graphire2 Cordless Mouse.

Landscape. A tablet ORIENTATION setting. In landscape orientation, the tablet cable is at the top. See also [portrait](#).

Mapping. The relationship between your Graphire2 tool position on the tablet and the cursor position on the monitor screen.

Modifier. Modifier keys include SHIFT, CTRL, COMMAND, and OPTION. You can customize your Graphire2 tool to simulate a modifier key.

Mouse Mode. A method for positioning the screen cursor. When you place a Graphire2 tool on the tablet, you can navigate the screen cursor like a mouse. This is known as relative positioning, and is the default setting for the Graphire2 Cordless Mouse. See also [Pen Mode](#).



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Nib. The replaceable tip of the Graphire2 Pen.

Pen Mode. A method of positioning the screen cursor. Wherever you place your Graphire2 tool on the tablet, the screen cursor will be at that same corresponding point on the screen. This is known as absolute positioning, and is the default setting for the Graphire2 Pen. Absolute positioning (Pen Mode) allows you to position the screen cursor without having to first find it and then move it with a “pick up and roll” action. See also [Mouse Mode](#).

Pixel. The smallest unit of measure on your monitor screen.

Pop-up Menu. A window that displays a list of macros, keystroke functions, and mapping options. You can customize the tool buttons of your Graphire2 Pen and Cordless Mouse to display this menu.

Portrait. A tablet ORIENTATION setting. In portrait orientation, the tablet cable is on the side. See also [landscape](#).

Pressure sensitive. A quality of the Graphire2 Pen tip and eraser that senses the amount of pressure being applied. This is used to create natural-looking pen, brush, and eraser strokes in applications that are pressure-sensitive.

Pressure-sensitive application. Any application that supports pressure-sensitive input.

Proximity. The height above the tablet's [active area](#) where the Graphire2 tools are detected. Refer also to the [Proximity](#) section.



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Screen cursor. The pointer on the display screen. Screen cursors come in different shapes (such as an I-beam, arrow, or box), depending on which application you are running.

Tracking speed. A setting that allows you to adjust the speed at which your screen cursor moves when your Graphire2 tool is in [Mouse Mode](#).

USB. Universal Serial Bus. A hardware interface standard for connecting computer peripheral devices. USB ports support hot-plugging, which allows you to connect or disconnect a USB device without turning off your computer.



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