



graphire[®]

Bluetooth[®]

WIRELESS TECHNOLOGY



CTE-630BT

User's manual for Windows[®] & Macintosh[®]

Using a pen

Customizing your pen

Troubleshooting

Using a tablet

Customizing your tablet

Digital inking

Using a cordless mouse

Customizing your cordless mouse

Customizing the Pop-up Menu





Wacom Graphire® Bluetooth®

User's Manual for Windows® & Macintosh®

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ABOUT THE MANUAL

This manual provides quick access to information about Graphire. Click on a navigation button or highlighted word to move through the document. The information is common to Windows and Macintosh computers and Windows screen captures are shown, unless otherwise noted.

- In the [contents](#) you can go directly to a topic by clicking on it.
- [Working with Graphire](#) is the learning chapter. It describes the wireless pen tablet, the features and function of each Graphire tool, and includes exercises for new users.
- [Customizing](#) describes how you can change the control panel settings to optimize your Graphire pen, mouse, and tablet for the way you like to work.
- Want to test your tablet and tools? Need troubleshooting guidelines? [Troubleshooting](#) is where you will find the answers to most common questions.
- The [appendix](#) includes a variety of information: tips on tablet installation, caring for your tablet and tools, a how-to on uninstalling the software, your license and warranty, and more.

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

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

- SMALL CAPITAL LETTERS are used to identify the names of keyboard keys, dialog boxes, and control panel options.
- You can use your viewer zoom-in tool to increase the size of the manual on your display screen.
- The following information is not included with this product: information about your specific computer hardware or operating system, information about another manufacturer's Bluetooth hardware or software, or information about your application software. Your best source for this information is the set of manuals and disks that came with your hardware, operating system, or application.
- Many graphics applications have built-in support for Graphire features (such as pressure-sensitivity and eraser support). See [product information](#) for a listing of applications that support these features. For information on how best to use Graphire features within a specific application, see the instructions in that application's manuals.





NAVIGATING THE MANUAL

Use the navigation controls to move through the manual:



Go to front page.

CONTENTS

Go to table of contents.

INDEX

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.

Adobe Reader provides you with additional tools for using and printing the manual. See the Adobe Reader help for more information.





WORKING WITH GRAPHIRE

This section introduces you to the Graphire Bluetooth pen tablet, which consists of two basic elements: a wireless tablet that serves as your work area, and the input tools you use on the tablet.

The quickest way to learn about your Graphire pen tablet is to become familiar with its appearance and features. If you are new to using a pen tablet and tablet input tools, read the following sections.

Tablet features

Input tools

Battery and power management

Establishing a Bluetooth connection

Optimizing the Bluetooth connection

Setting up your work area

Using the cordless pen

Using the cordless mouse

Working with the tablet





TABLET FEATURES

Pen storage compartment.

ExpressKeys.
See [working with tablet properties](#).

Power button.
With integrated [power indicator light](#).

Charging indicator.
See [charging the battery](#).



Active area.

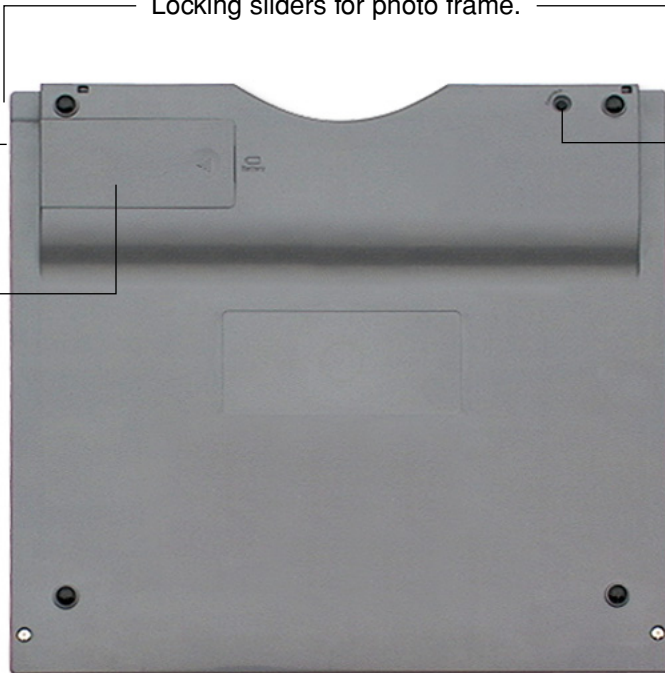
Photo frame.
See [changing the tablet underlay](#).

Locking sliders for photo frame.

Power connector port.
See [charging the battery](#).

CONNECT button.
See [establishing a Bluetooth connection](#).

Battery compartment.
To open, slide cover to left.



Rechargeable Lithium-Ion (Li-Ion) battery.
See [installing the battery](#).



Power adapter and cable.
See [charging the battery](#).



Plug varies by region.

INPUT TOOLS

Your Graphire input tools are cordless and battery-free.

Graphire pen. A pressure-sensitive freehand tool for image editing and creating natural-looking pen and brush strokes. It is also efficient for document annotation and taking notes in applications that support handwriting recognition.



Eraser.

DuoSwitch
(rocker style).

Replaceable nib
(pen tip).



Pen stand.

Fingerwheel. The integrated middle button and rolling wheel can be used for up and down scrolling in the active window. It can also be customized to perform a variety of button functions.



Programmable buttons
can be customized.

Graphire cordless mouse. An ideal tool for navigation or performing any other task you may have done previously with a standard mouse.



BATTERY AND POWER MANAGEMENT

This section contains important information about the battery and power management features of your Graphire Bluetooth pen tablet. Be sure to review the following items:

[Installing the battery](#)

[Charging the battery](#)

[Power saving features](#)

[Power indicator light](#)

See also [working with the tablet](#) for more information about tablet features.

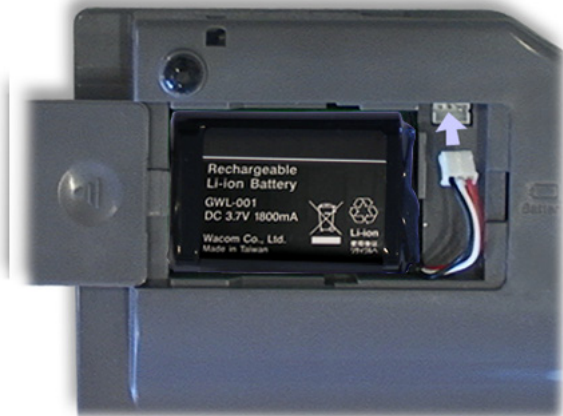
INSTALLING THE BATTERY

Your wireless pen tablet uses a rechargeable Lithium-Ion (Li-Ion) battery as the power source for mobile operation. The power adapter is used for charging the battery and to operate the tablet using outlet power.

Before installing or working with Graphire Bluetooth, you must first install the rechargeable battery that came with your tablet.

To install the tablet battery:

1. Turn the wireless tablet upside down and slide open the battery compartment door.
2. Align the notch on the battery cable plug with the cutout in the tablet connector, then press the plug into the connector as shown.



Important: Use only the correct battery provided by Wacom and be careful not to drop it on hard surfaces. The battery can be damaged internally when dropped, and should be replaced even if there is no obvious damage. This will help prevent any future damage that could occur to the tablet if the battery has been dropped, is installed in the tablet, and then later develops a short or leak while in the tablet.

Warnings:

Do not attempt to install the battery backwards or reverse the polarity. If you do so, you may damage the tablet, cause a fire, or personal injury may result.

NEVER attempt to use other battery types in your tablet. Doing so may damage the tablet, cause a fire, or personal injury may result.

See [replacing the tablet battery](#) for additional battery cautions and warnings.

3. Insert the battery into the battery compartment and close the compartment door. Move on to [charging the battery](#).





CHARGING THE BATTERY

Before using the tablet battery for the first time, Wacom recommends that you plug in the power adapter and allow the battery to charge. You can continue with the installation process and work with the tablet while the battery is charging. The battery will take approximately five to six (5 to 6) hours to fully charge. Note that fully charging or discharging the battery does not extend the battery life as Li-Ion batteries do not have a memory.

To charge the battery, plug the round end of the power adapter into the tablet power connector port. Then connect one end of the adapter's power cable to the power adapter, and the other end to an active power outlet.

Recharge the battery before it gets too low – this will ensure the tablet battery is always ready for mobile operation

Note: Charge the battery whenever its charge is low, as indicated by a low battery alert on your screen. When the power indicator light starts flashing, the battery is nearly empty and the tablet will soon cease to function properly.

Power connector port.



The charging indicator glows orange when charging, and green when fully charged.



Power connector port.

To check the current battery charge status, open the Pen Tablet control panel and go to the TABLET tab. See [working with tablet properties](#).





The battery immediately begins to charge whenever the power adapter is connected and the battery is not fully charged. The battery will charge whether the tablet is switched on or off. The charge time will vary depending upon the battery level and various factors such as the ambient temperature and whether the tablet is in use while charging. If the battery level is low, the battery will take approximately five to six hours to fully charge.

The charging indicator lights as follows:

Charging indicator	Battery charging status
LED glows orange.	Power adapter is connected and battery is charging.
LED glows green.	Power adapter is connected and battery is fully charged.
LED off.	The battery is not charging. Check that the power adapter is properly plugged into the tablet and connected to an active power outlet. If the LED still does not light, the battery should be replaced. See replacing the tablet battery .

Warnings:

Do **not** attempt to charge the tablet battery with any power adapter other than the one supplied with your Graphire Bluetooth pen tablet. Doing so may damage the tablet, cause a fire, or personal injury may result.

If the tablet becomes excessively warm or emits an unusual smell while the battery is charging, immediately disconnect the power adapter from the power outlet and shut down the tablet. Contact Wacom Technical Support for assistance (see [technical support options](#)).

For additional battery precautions, see [replacing the tablet battery](#).

A new, fully charged battery should provide approximately 25 hours of constant use.

- When the battery charge falls below 20%, an alert message will appear on your computer display screen to remind you the battery needs recharging.
- When the battery is nearly empty, the power indicator light will start flashing – the tablet may stop operating properly and will soon switch itself off. You should immediately connect the power adapter; this will allow you to continue working while the battery is charging.

Notes:

- When you are done working, turn off the tablet in order to conserve battery power.
- Even when the tablet is off, it still draws a small amount of current from the battery. It is a good idea to charge the battery before leaving the tablet unused for a number of days.
- If you will not be using your tablet for an extended period of time (a month or longer), Wacom suggests unplugging the battery from the tablet connector in order to conserve the charge and battery life.
- If your battery can no longer hold a charge, the battery should be replaced. See [replacing the tablet battery](#).





POWER SAVING FEATURES

To conserve battery power when the tablet is not in use, the tablet will turn itself off after 30 minutes without user input. To resume operations, press the power button.

Note: Graphire Bluetooth will not switch off automatically when the power adapter is connected and supplying power to the tablet.

When there is no wireless connection for more than two (2) seconds, such as when the computer is switched off or the tablet is moved out of range, Graphire Bluetooth switches itself off. To resume operations, make sure that your computer's Bluetooth support is working and that your tablet is within range. Then press the power button.

Important: When the Graphire pen is not in use, place it in the pen storage compartment, the pen stand, or lay it flat on your desk. Leaving the pen on the tablet when not in use can prevent the tablet from switching off and cause the battery to drain down.

POWER INDICATOR LIGHT

Observe the power indicator light to check the operational status of the tablet:

Power indicator light	Tablet status
Steady blue.	Normal operation, no user input.
Green.	Pen tip, tool buttons, or tablet ExpressKeys in use.
Slowly flashing blue (200 ms on, 800 ms off).	Battery empty. Recharge immediately.
Quickly flashing blue (100 ms on, 300 ms off).	Discoverable mode (after pressing the CONNECT button). See establishing a Bluetooth connection .
Off.	<p>Off. Any of the following conditions can prompt the tablet to power off.</p> <ul style="list-style-type: none"> You press and release the power button. After you press the CONNECT button, the tablet does not pair with a computer within three (3) minutes. No user input for more than 30 minutes. No wireless connection for more than two (2) seconds. Battery charge drops below operational level and no external power supply is connected to tablet. <p>Once the tablet has turned itself off and there is adequate battery or external power available, you must press the power button to turn the tablet back on.</p>





ESTABLISHING A BLUETOOTH CONNECTION

The Graphire Bluetooth pen tablet connects to your computer via a wireless Bluetooth connection. Bluetooth is a radio-frequency technology, so it is not necessary for Graphire Bluetooth to be “in sight” of the Bluetooth antenna on your computer. The radio frequency can pass through non-metallic objects like walls, bookshelves, etc.

Important:

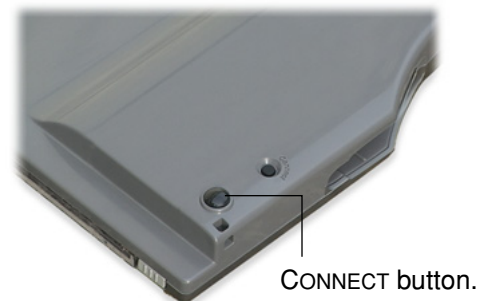
- Graphire Bluetooth is a Class 2 Bluetooth device, and can operate for up to 10 meters (33 feet) from the Bluetooth antenna of your computer.
- Interference from other networks operating in the 2.4 GHz band, other Bluetooth devices connected to your computer (especially audio devices), or metallic objects located in or along the line of sight can negatively impact the tablet performance and operating distance.
- If you experience connection problems, see [optimizing the Bluetooth connection](#) for related tips and suggestions.

Before connecting the tablet, make sure that your computer has a working Bluetooth configuration that meets Bluetooth Specification v1.1 or higher with Human Interface Device (HID) profile. If your computer does not have built-in Bluetooth support, you need to obtain and install a commercially available USB-to-Bluetooth adapter.

The process of connecting Graphire Bluetooth to your computer is called “pairing”. Please read the instructions that came with your Bluetooth hardware and software for details on how to pair a device to your specific Bluetooth configuration. The following is an overview of the typical steps involved in the process.

To establish a link between your wireless tablet and computer:

1. Turn on your computer and wait until the system has fully loaded. Make sure that your computer’s Bluetooth wireless connection is working. You can test this using a Bluetooth mouse or keyboard.
2. Press the CONNECT button located on the bottom of the tablet to place the tablet in discoverable mode. The tablet power indicator light will blink rapidly when the tablet is in discoverable mode.
 - The tablet will remain in discoverable mode for three (3) minutes or until a pairing with your computer has been established. If pairing is not established within three (3) minutes, the tablet will turn itself off.
 - The tablet can only be paired (linked) to your computer while the tablet is in discoverable mode.





3. While the tablet is in discoverable mode, pair it to your computer. The following points provide a general overview of the pairing process. For detailed instructions on pairing a Bluetooth device to your computer, refer to the documentation that came with your operating system or Bluetooth support.
 - Open the Bluetooth devices control panel. Some common access points to this control panel include: the task bar, menu bar, control panel, or system preferences pane of your computer's operating system.
 - From the Bluetooth devices control panel, start the process of adding a device. Common options to do so are **ADD A BLUETOOTH DEVICE**, **BLUETOOTH SETUP**, or **SET UP NEW DEVICES**.
 - In the setup assistant that appears, carefully follow all directions to continue.
 - If prompted for the device type to set up, choose "mouse".
 - When the tablet is discovered it will show up as **WACOM PEN TABLET**. Select it and continue to follow the prompts. If the tablet does not appear, you will need to refresh the assistant and again press the tablet **CONNECT** button.
 - If prompted for an authentication code or passkey, select the "don't use" or "no" option. The Graphire Bluetooth pen tablet does not require passkey authentication.
 - If prompted for the device type services to add, choose the option for "tablet". Otherwise choose "mouse".
 - After the wireless tablet has been successfully paired to your computer it will appear as a connected device in the Bluetooth devices control panel.
4. Close the Bluetooth devices control panel and check the connection. Place the pen on the tablet – you should be able to move the screen cursor with the pen.

Once you have established a connection between your wireless tablet and the computer, they will remember the connection – just as if you had connected a virtual cable between them. The tablet will remember which computer it is connected to, and will reject all attempts by other computers to connect to it.

- If the link is broken for more than two seconds (e.g., you shut down your computer, unplug your USB-to-Bluetooth adapter or otherwise switch off your Bluetooth support, or move the tablet too far away from the computer), the tablet will switch itself off.
- When starting up your computer, wait until your operating system has completely loaded and then push the tablet power button. The Bluetooth connection will automatically be reestablished.
- If you again press the **CONNECT** button, the virtual cable link will be broken and the tablet will once again become discoverable by any Bluetooth enabled computer.

Important: Remember that the Graphire Bluetooth pen tablet driver software must be installed before you will be able to work with full tablet functionality and features such as pressure-sensitivity with the pen.

5. If you have not already done so, install the pen tablet driver software. Insert the Wacom Pen Tablet Driver CD into your computer's CD-ROM drive, click on the **INSTALL TABLET** link, and follow the prompts to install the driver software.







To disconnect the wireless tablet from a computer:

You can break the connection between tablet and computer from either the tablet or from the computer to which it is linked:

- **From the tablet**, while the tablet and computer are linked, simply press the CONNECT button on the back of the tablet. A disconnect message will be sent to the computer.
- **From the computer that the tablet is paired with**, open the Bluetooth devices control panel and delete the pairing for the tablet.

Notes:

- You can link up to seven Bluetooth devices, including multiple Graphire Bluetooth pen tablets, to a computer.
- The use of wireless devices is regulated in most countries. If you will be traveling with your wireless tablet, be sure to check with the appropriate regulatory authority for any restrictions that may apply to your product in the country of your destination.
-  Products using wireless signals can interfere with the equipment on commercial aircraft, and regulations require that all wireless devices be turned off when traveling in an airplane. You can ensure the Graphire tablet wireless signal has been turned off by checking the power button (the power indicator light will be off) and ensuring that you do not press the power button during takeoff, transit, or landing.
-  Do not use the Graphire Bluetooth pen tablet in a facility control system or any other environment that requires extremely high reliability, or where the use of a wireless device may cause interference; the wireless tablet may interfere with or cause other electronic devices to malfunction, or other wireless devices may interfere with or cause the tablet to malfunction. Where use is prohibited, power off the tablet (ensuring the wireless signal has been turned off) to prevent the possibility of it interfering with or causing other electronic devices to malfunction. Wacom does not accept any liability for direct or consequential damages. For details, please refer to your Warranty, located at the end of this manual.





OPTIMIZING THE BLUETOOTH CONNECTION

If your screen cursor lags behind the pen movement on the tablet or frequently jumps about, or if you see excessive straight line segments when drawing in graphics applications, then your Bluetooth connection may not be able to transmit all of the data from the tablet with the necessary speed. This may be caused by interference from other radio sources, obstructions in the radio wave path, excessive distance from the computer, or a combination of the above.

Try the following actions to improve your Bluetooth connection and optimize tablet performance:

- Remove any metallic objects from the line of sight between Graphire Bluetooth and your Bluetooth antenna or adapter.
- If you are using a USB-to-Bluetooth adapter, use a USB extension cable and place the Bluetooth adapter onto your desktop or somewhere in sight of Graphire Bluetooth.
- Use Bluetooth support that complies with Bluetooth Specification v1.2 or later. Some Bluetooth devices can be upgraded to comply with newer specifications. Contact the manufacturer of your Bluetooth support for details.
- Use a Class 1 Bluetooth adapter on your computer.
- If you are using a computer with a built-in Bluetooth antenna, try reorienting the computer until you get a better data rate.
- Move the tablet closer to your computer's Bluetooth antenna.
- Disconnect any Bluetooth audio devices, such as headsets, that may be connected to your computer.
- Switch off any other devices operating in the 2.4 GHz radio spectrum, such as WiFi networks, mobile telephones, etc., or move their antennas further away from your computer.





SETTING UP YOUR WORK AREA

To minimize fatigue, organize your work area so you can work comfortably. Position your tablet, input tools, and keyboard for easy access without unnecessary reaching. Position your display so you can view it comfortably with a minimum of eyestrain. For best results, orient the tablet so the screen cursor follows the same direction as your hand movements on the tablet.



- Take short breaks between tasks to stretch and relax your muscles.
- Use a gentle grip when working with your tools.
- Alternate tasks and tools throughout the day.
- Maintain a good posture at all times. Minimize awkward postures and repetitive movements that cause discomfort.
- Change your position if you feel any discomfort due to your work position.

Note: Wacom makes no representation, promise or guarantee that Wacom products will cure or prevent, in whole or in part, mouse-induced repetitive stress symptoms, injuries or conditions. Individual results may vary. Always obtain competent medical advice to determine the most appropriate treatment for your specific situation.

See [working with the tablet](#) for more information.

USING THE CORDLESS PEN

There are four basic techniques for using the pen: pointing, clicking, double-clicking, and dragging. If you are unfamiliar with using the pen, try the exercises on the following pages.

[Holding the pen](#)

[Pointing](#)

[Clicking](#)

[Dragging](#)

[Using the side switch](#)

[Drawing with pressure sensitivity](#)

[Erasing](#)

[Eye-hand coordination exercise](#)





HOLDING THE PEN

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



Position for drawing and navigating.



Position for erasing.



Your tablet also comes with an integrated pen storage compartment. When you are not using the pen, you can reach behind the tablet and press the pen into the storage compartment or lay it flat on your desk.



Use the pen stand to store the pen between tasks. This makes the pen available for quick, easy access when you are working.

Important: When the pen is not in use, place it in the pen storage compartment, the pen stand, or lay it flat on your desk. To maintain the sensitivity of your pen, do not store the pen in a container where it will rest on its tip or eraser. Leaving a Graphire tool on the tablet may interfere with screen cursor positioning when using other pointing devices. Also, leaving the pen on the tablet when not in use can prevent the tablet from switching off and cause the battery to drain down.





POINTING

The Graphire 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 active area is a mapped representation of your computer 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 pen.
- In **MOUSE MODE**, the default setting for the cordless mouse, you move the cursor with a “pick up and slide” motion similar to using a traditional mouse.

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



5 mm (0.20 inch)

When positioning the screen cursor and operating the side switch, the pen tip needs to be within 5 mm (0.20 inch) of the tablet surface. You do not need to touch the tablet with the pen tip in order to move the screen cursor or use the side switch.

The cordless mouse works similarly to the pen, and works only over the active area of the tablet.

Hints:

- If you find that using a pen is somewhat difficult, try the [eye-hand coordination exercise](#).
- Pointing is easier when you orient the tablet so the screen cursor follows the same direction as your hand movements on the tablet.



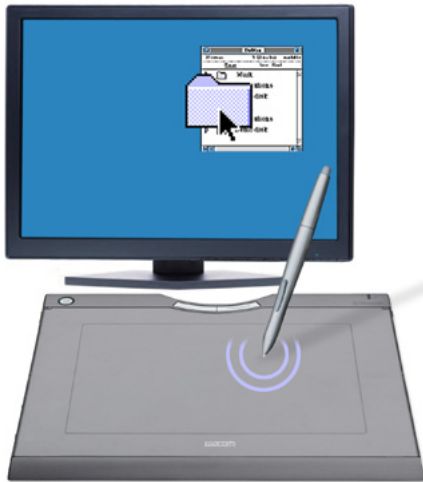


CLICKING

Click to highlight or select something on the screen, and double-click to open it.

Clicking. Tap the pen tip once on the tablet, or press the pen tip on the tablet with enough force to register a click. (If **CLICK SOUND** is selected in the Pen Tablet control panel and your computer speakers are on, then you will hear a “click” sound when the pen tip is pressed hard enough to generate a button click.) Try clicking on a folder icon by moving the screen cursor over the icon and pressing down on the pen tip. The folder should highlight when you press.

Double Clicking. Quickly tap the tablet twice in the same place with the pen tip. This is like clicking twice with a mouse button. Try double-clicking on a folder icon to open it.



Hints:

Press the upper side switch to double-click. This is easier than tapping twice with the pen tip, and is the preferred method of double-clicking with a pen.

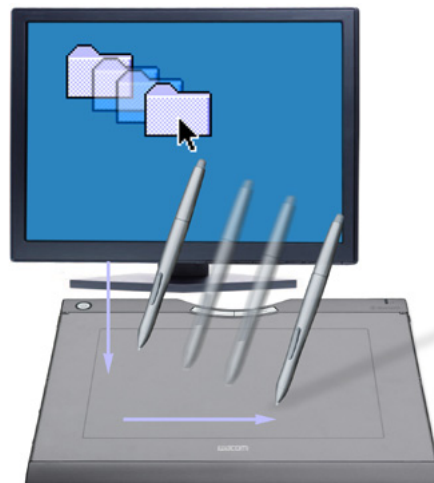
You can configure Windows to select when the pen is over an icon and to launch the icon with a single click. To turn on this feature, first open a folder.

- **For Windows Vista**, from the **ORGANIZE** pull-down menu choose **FOLDER AND SEARCH OPTIONS....** From the **GENERAL** tab select **SINGLE-CLICK TO OPEN AN ITEM (POINT TO SELECT)**.
- **For other Windows versions**, from the **TOOLS** pull-down menu choose **FOLDER OPTIONS....** From the **GENERAL** tab select **SINGLE-CLICK TO OPEN AN ITEM (POINT TO SELECT)**.

DRAGGING

To drag, first point to an object. Then press the pen tip to the tablet and slide it across the tablet surface. 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 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.

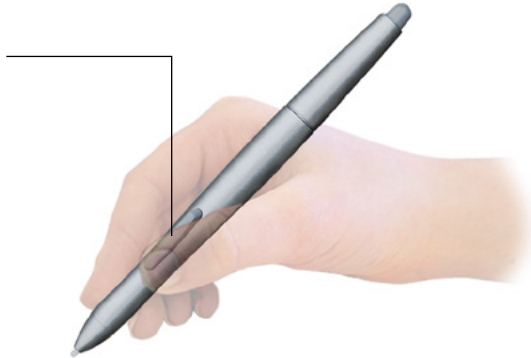




USING THE SIDE SWITCH

The Graphire 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 5 mm (0.20 inch) of the tablet active area. You do not have to touch the pen tip to the tablet in order to use the switch.

The upper switch position is set to DOUBLE CLICK, and the lower switch is set to RIGHT CLICK by default.



Hints:

- Press the upper side switch to double-click. This is easier than tapping twice with the pen tip.
- Use a right-click to bring up application-specific or icon-specific menus.

To assign new switch functions, see [customizing the side switch](#).

DRAWING WITH PRESSURE SENSITIVITY

The Graphire pen responds to 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. The [digital ink](#) tools in Microsoft Windows Vista and Office 2007 also respond to the pressure you place on the pen.

To draw with pressure-sensitivity, first select a pressure-sensitive tool from your application's tool palette. Then draw along the surface of the tablet while applying various amounts of pressure downward on the tip of the 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, eraser feel, and double-click](#).

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





ERASING

The Graphire pen eraser works like the eraser on a pencil. In graphics applications that support the pen eraser, you can erase intuitively and naturally. When you use the pen eraser, the application will automatically switch to the eraser tool. In applications that support pressure sensitivity, you can select pressure-sensitive tools in an application's tool palette to vary the width and depth of your erasures as you change the amount of pressure you exert upon the pen.

In Microsoft Office 2007 running on Microsoft Windows Vista, you can use the eraser to erase notes or sketches made with digital ink, and to select and delete text or spreadsheet cells within an application.

You can also use the eraser in many other standard office applications. The eraser may not be pressure sensitive in these applications, but you can use it to select and delete text or spreadsheet cells.

For more information on using your eraser, see [adjusting tip feel, eraser feel, and double-click](#).

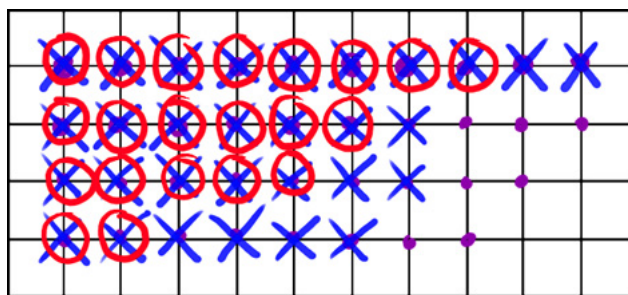
Visit our web site for a list of graphics applications that support the eraser (see [product information](#)). If the eraser is not supported in an application, you can still use the eraser for navigating, drawing, and annotation.



EYE-HAND COORDINATION EXERCISE

This exercise is designed to retrain your eye-hand coordination for using the 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 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 pen, the easier drawing and navigation will become.





USING THE CORDLESS MOUSE

The Graphire cordless mouse is battery-free and works on your Graphire Bluetooth pen tablet.

The fingerwheel can be rolled, or pressed for an additional button function.

- **Rolling.** By default, the fingerwheel is set to SCROLL 3 lines per wheel step in most windows and applications. Move the fingerwheel forward to scroll up, and back to scroll down.
- **Wheel button.** Press down on the wheel to perform a button click. The wheel button is set to MIDDLE CLICK by default.



The right button is set to RIGHT-CLICK by default, and displays a context menu when pressed.

The left button is set to CLICK by default, and is the primary button used for selecting.

Hint: For Microsoft Office applications that support a wheel mouse, press the CTRL key and move the fingerwheel to zoom in and out.

Important: When the cordless mouse is not in use, place it on your desk. Leaving a Graphire tool on the tablet may interfere with screen cursor positioning when using other pointing devices, or may prevent your computer from going to sleep.

To learn how to adjust the mouse behavior for your preferences, see [customizing the cordless mouse](#).





WORKING WITH THE TABLET

The middle area of the tablet is the working, or active, area for the pen and cordless mouse. Rest your hand on the tablet and then work with the pen on the active area of the tablet just as if you were using a ball point pen on a piece of paper. Wherever you place your pen on the tablet active area, the screen cursor will jump to the corresponding point on the screen. See [using the cordless pen](#) and [using the cordless mouse](#) for more information.

Your tablet also features customizable ExpressKeys located above the tablet active area. By default, the ExpressKeys are set to simulate the FORWARD and BACK functions within Internet browsers.

ExpressKeys. Press the keys to move FORWARD (right key) or BACK (left key) within your Internet browser. You can also customize the keys to perform frequently used functions or keystrokes.

ExpressKeys can be used separately or in combination with your Graphire pen. For example, you can set the pair of keys to commonly used keystrokes (such as [and] to decrease and increase your brush size in Photoshop. In this manner you can change the properties of your pen as you work without removing your hands from the tablet.



The transparent photo frame allows you to customize Graphire Bluetooth with your favorite photos or artwork. See [changing the tablet underlay](#) for details.

See [battery and power management](#) for detailed information about tablet power management.





USING THE EXPRESSKEYS

By default, the customizable ExpressKeys are set to perform the FORWARD and BACK functions within most Internet browsers.

The left key default is BACK within Internet browsers

The right key default is FORWARD.



The ExpressKeys are fully customizable. Consider some of these alternate ways of using the ExpressKeys:

- Set a key to a commonly used keyboard shortcut.
- Set a key to launch a commonly used file or application, such as your email program.
- If you prefer not to (or cannot) use the side switches on your Graphire pen, then set a key to right- or double-click.
- Choose from any of the other available functions.

Note also that the tablet ExpressKeys are chordable, which means you can press both keys simultaneously. For example, if you program one key to simulate the CTRL key and another to simulate an ALT keystroke, when you press both keys a CTRL+ALT is simulated. An ExpressKey which is set to a modifier or button click function can be pressed simultaneously while using the pen to modify the pen function.

See [working with tablet properties](#) for more details on the available settings.

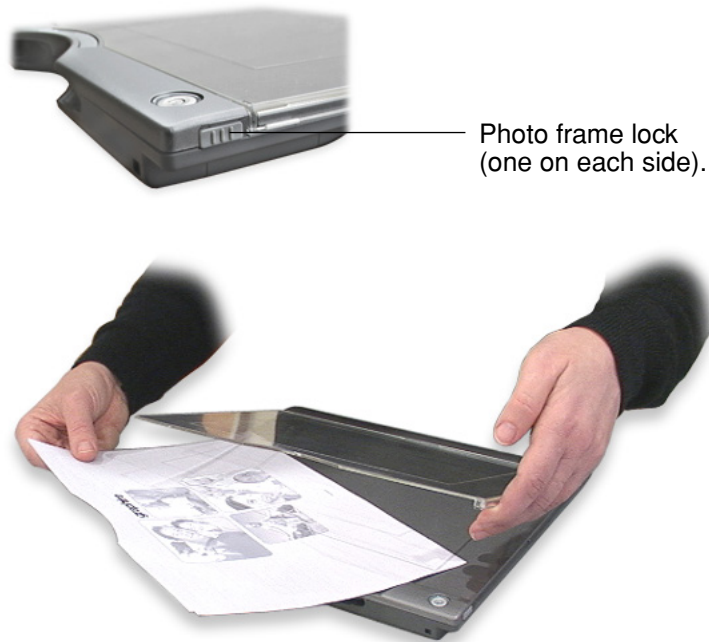




CHANGING THE TABLET UNDERLAY

Some configurations of the tablet come with a printed underlay that can be seen through the transparent photo frame. You can replace the underlay with a favorite photo or design of your own by following these steps:

1. **To remove the photo frame**, slide the two photo frame locks located on each side of the tablet to the unlocked position (toward the top of the tablet). Then grasp the upper edges of the photo frame with your finger tips and lift the photo frame away from the tablet.
2. Lift away the printed underlay and replace it with a new photo or design of your choosing.
3. **To replace the photo frame**, insert the tabs located on the lower edge of the cover into the slots on the tablet. Then lower the photo frame into place and slide the photo frame locks to the locked position (towards the bottom of the tablet). This will protect your photo or design as you work on the tablet.



To create a new tablet underlay, follow the tips in the next section.

CREATING A NEW TABLET UNDERLAY

If you would like to create an image that you can use for the tablet underlay, you can use the templates provided on the Wacom Pen Tablet Driver CD as a starting point:

1. Insert the Wacom Pen Tablet Driver CD into your computer and locate the TEMPLATES folder.
2. Open the folder to access the template files. Template files come in various formats that can be modified within any graphics application that supports .jpg or .psd formatted files.
3. Choose one of the pre-designed or blank templates. Then modify it to create your own design.
4. When you are done, print out your new tablet underlay. Use photo-quality paper for best results.
5. Trim the new underlay to size and place it beneath the tablet photo frame. See above.





CUSTOMIZING

After you master the basics of Graphire, you may want to customize the way the pen, mouse, or tablet works. This chapter describes how to adjust your tablet and tool settings.

[Opening the control panel](#)

[Control panel overview](#)

[Control panel settings](#)

OPENING THE CONTROL PANEL

To open the control panel, use the Graphire pen or cordless mouse on the tablet:

- **Windows.** Click on the Windows START button and choose ALL PROGRAMS. (For Windows 2000, choose the PROGRAMS group.) Then select TABLET and choose the PEN TABLET option.
- **Macintosh.** Open SYSTEM PREFERENCES from either the Dock, the Apple menu, or from the APPLICATIONS folder. Then click on the PEN TABLET icon.

After you have opened the Pen Tablet control panel, you can begin customizing Graphire.

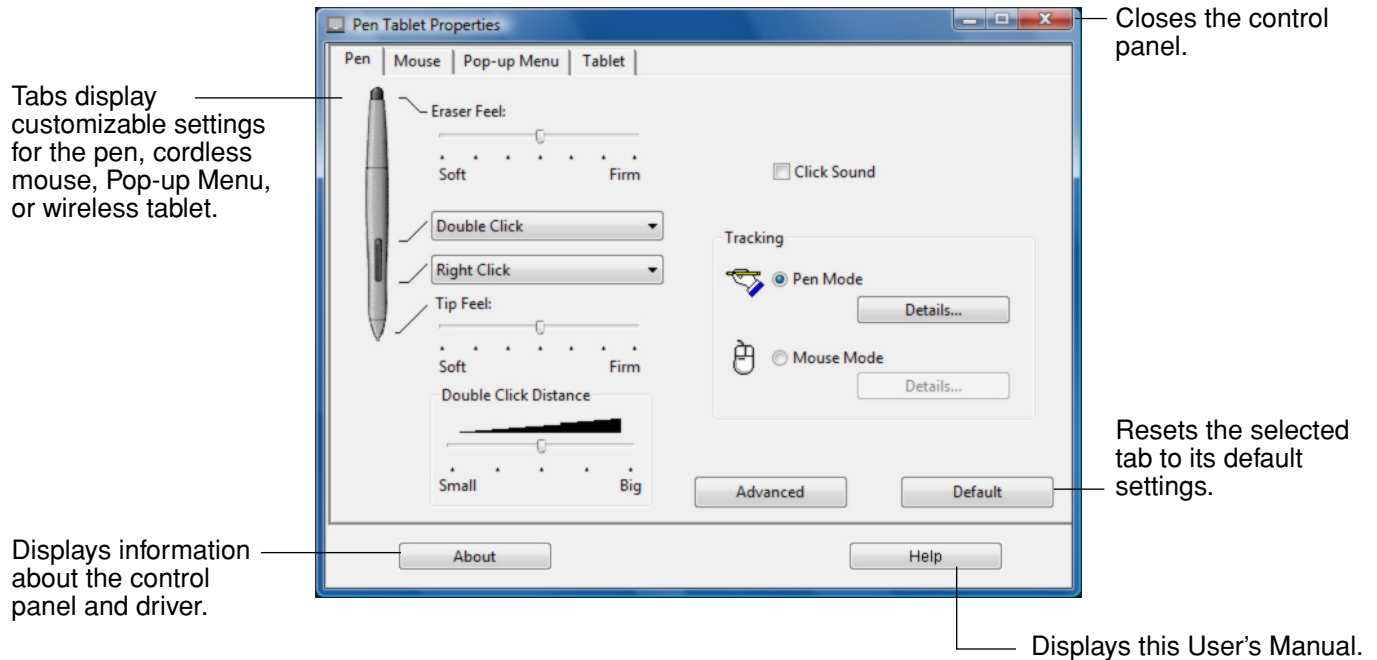
Note: When more than one Wacom tablet is installed on a single computer, any changes made in the Pen Tablet control panel will be applied only to the tablet that was last used before opening the control panel.





CONTROL PANEL OVERVIEW

Use the Pen Tablet control panel to customize your Graphire pen, mouse, and tablet.



Experiment with different settings to find what works best for you. Any changes you make will take effect immediately. Click DEFAULT to return a tab to the factory settings.

Tool Tips are available for most control panel items. Position the screen cursor over an item and let it rest there; in a few moments the Tool Tip will pop up.

Your keyboard tab and arrow keys can be used to navigate the control panel.

CONTROL PANEL SETTINGS

The following sections provide detailed information about each control panel tab. Many of the sections also contain useful customizing tips.

[Customizing the pen](#)

[Customizing the cordless mouse](#)

[Tablet tracking](#)

[Working with tablet properties](#)

[Customizing the Pop-up Menu](#)





CUSTOMIZING THE PEN

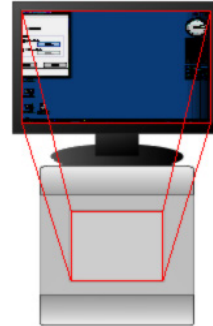
First open the Pen Tablet control panel and select the PEN tab to choose from the available options.



Adjusting eraser feel

Customizing the side switch

Adjusting tip feel and double-click



Tablet tracking





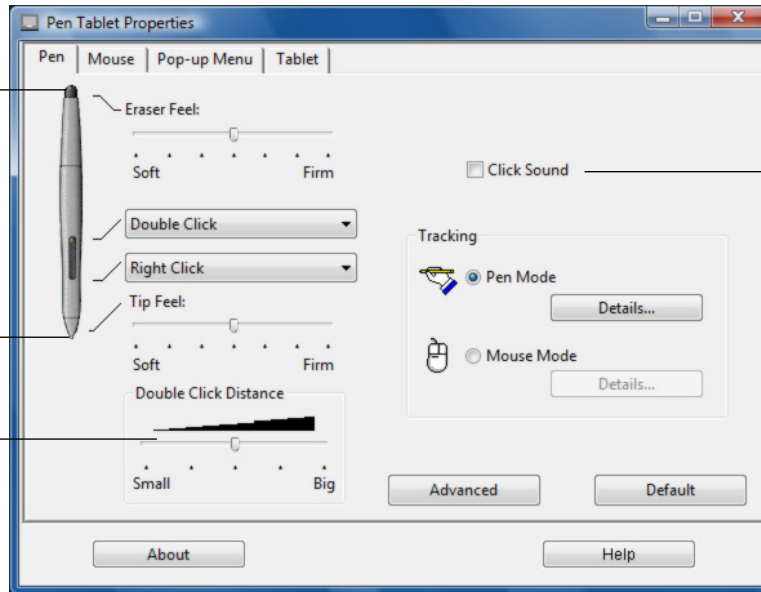
ADJUSTING TIP FEEL, ERASER FEEL, AND DOUBLE-CLICK

Select the PEN 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. To erase with a broad stroke or to click with a light touch, use a soft eraser setting. For maximum control while erasing, use a firm eraser setting.

Customizes the amount of pressure needed to erase. Drag the slider to a softer or firmer setting.

Customizes the amount of pressure needed to click or draw. Drag the slider to a softer or firmer setting.

Adjusts the size of the double-click area and the double-click speed. A larger setting makes double-clicking easier.



When checked, an audible “click” sound will be heard whenever a pen click occurs and your computer speakers are turned on.

Hints:

- Use a soft TIP FEEL for a wider range of pressure values with most pressure-sensitive applications.
- In some applications, a soft pressure setting can make the pen overreact – any small press on the pen is magnified on the screen. If you experience this, try a firmer TIP FEEL setting.
- To make double-clicking easier, expand the tap area that accepts a double-click (the double-click distance).

Note: A large double-click distance may cause a delay at the beginning of your brush strokes in some drawing applications. This may also cause a delay at the beginning of a drag action or inking stroke. If you notice such effects, try setting a smaller double-click distance and using the side switch to double-click (see [using the side switch](#)). You can also set one of the ExpressKeys to double-click.



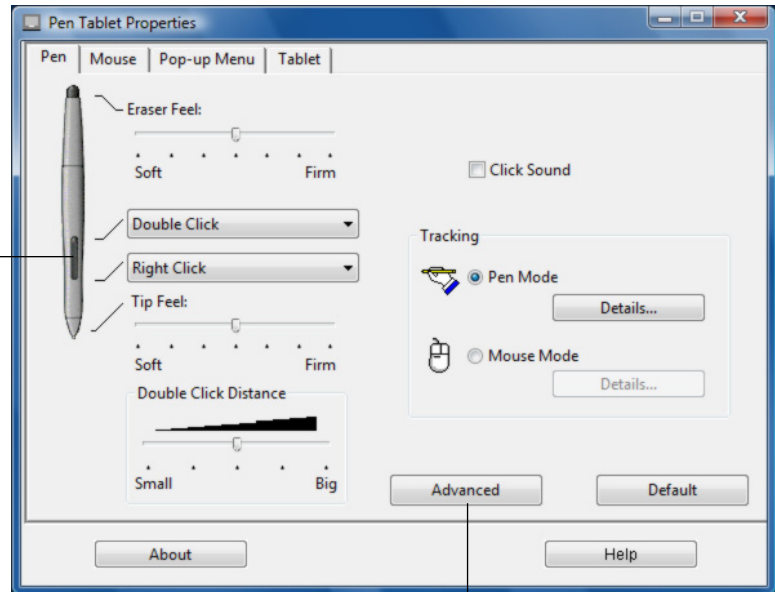


CUSTOMIZING THE SIDE SWITCH

Select the PEN tab to change the functions assigned to the side switch of your Graphire pen. The DuoSwitch can be set to simulate a variety of mouse functions; the pull-down menus enable you to choose the function that will be performed.

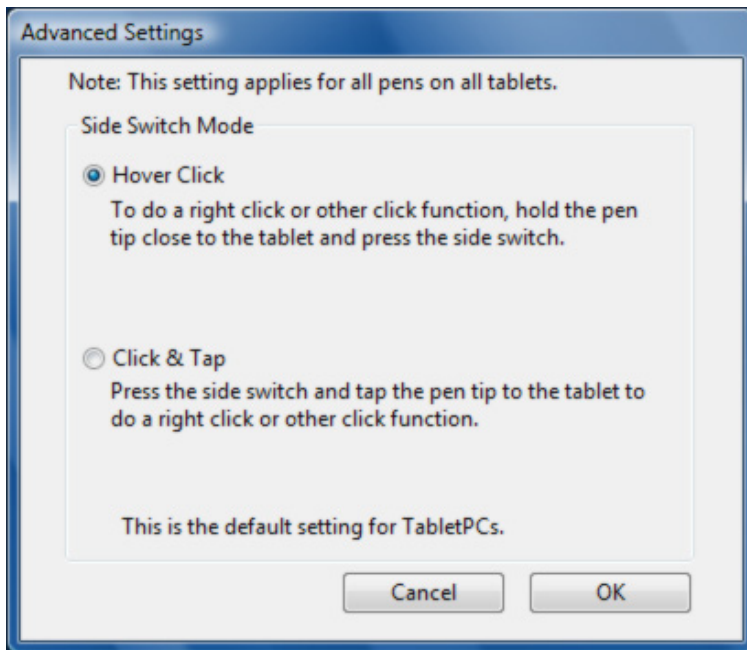
Select the function to perform when pressing the upper or lower side switch. When you bring the pen tip within 5 mm (0.20 inch) of the tablet surface without touching the tablet and press the upper or lower side switch, the selected function occurs.

Hint: To make double-clicking easier, set the side switch to double-click automatically by selecting DOUBLE CLICK.



Note: You can change the SIDE SWITCH MODE for the way you like to use the pen when making right-clicks or other click functions. Click on the ADVANCED button. In the dialog box that appears:

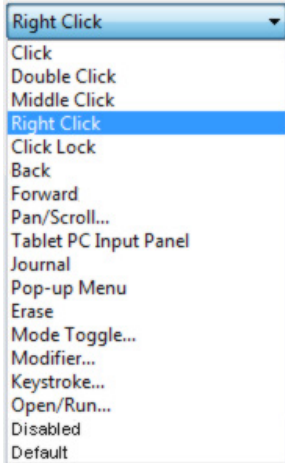
- Select HOVER CLICK to perform click functions without touching the pen tip to the tablet surface.
- When CLICK & TAP is selected, you must first press the pen button and then touch the pen tip to the tablet surface in order to perform a click function. CLICK & TAP enables the precise placement of your click functions.





BUTTON FUNCTIONS

The following options are available for tool and tablet button settings. Not all options are available for all controls.



CLICK. Default setting for the pen tip. Simulates a primary mouse button click.

DOUBLE CLICK. Simulates a double-click. For easier double-clicking, use this function instead of tapping twice with the tip of your pen.

MIDDLE CLICK. Simulates a middle mouse button click.

RIGHT CLICK. Simulates a right mouse button click, which displays a context menu.

CLICK LOCK. Simulates holding down the primary 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.

4TH CLICK. Simulates a 4th mouse button click.

BACK. Simulates the BACK command in browser applications.

5TH CLICK. Simulates a 5th mouse button click.

FORWARD. Simulates the FORWARD command in browser applications.

PAN/SCROLL. Enables you to move a document or image in any direction within the active window using your Graphire pen.

APPLICATION DEFINED. Reports only the button number to the application. This is for applications, such as CAD programs, that have built-in support for the Graphire cordless mouse.

ERASE. Default setting for the eraser. (Pen only.) Sets a button so that when the button is pressed, the pen tip will act like the eraser in applications that support the Erase function. See [erasing](#) for information on using the eraser.

INK TOGGLE. (Macintosh.) Toggles the INK ANYWHERE function of Inkwell on and off. Inkwell automatically recognizes and converts your handwriting into text and inserts it into a document. Note that Ink must be turned on for this function to work. See your Macintosh help for information on working with Inkwell.





TABLET PC INPUT PANEL. (Tablet PCs and Windows Vista systems that support the Tablet PC Input Panel.) Opens the Tablet PC Input Panel when you press a tool button set to this function.

JOURNAL. (Windows Vista and Tablet PC systems that include Microsoft Journal.) Opens Microsoft Journal.

KEYSTROKE... Enables you to simulate keystrokes.

MODE TOGGLE.... Toggles between PEN MODE and MOUSE MODE. See [setting mouse speed](#) for details.

MODIFIER.... Enables you to simulate modifier keys.

OPEN/RUN.... Opens an application, file, or script.

POP-UP MENU. Displays a Pop-up Menu on your screen. See [customizing the Pop-up Menu](#) for more information.

PRESSURE HOLD. Locks the pressure 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.

SHOW DESKTOP. Minimizes all open windows to display a clean desktop.

SWITCH APPLICATIONS. Brings up the application switching dialog with focus on the next open application. On Windows Vista systems running Aero, Flip 3D will be activated with focus on the next open applications.

EXPOSÉ. (Macintosh.) Tiles all open windows.

DISABLED. Disables the button function.

DEFAULT. Returns a button to its default setting.

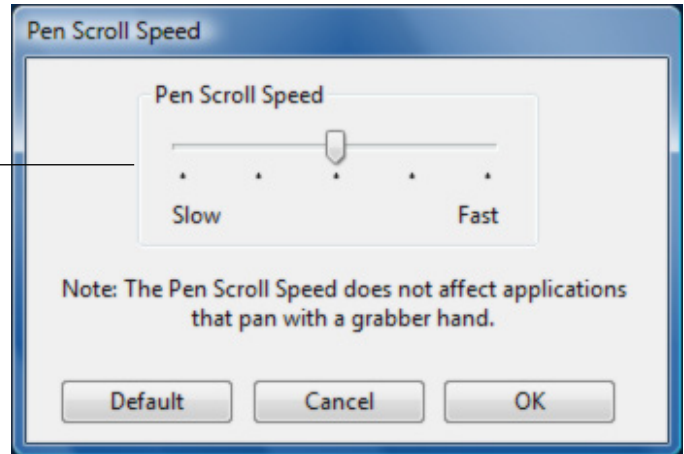




- **PAN/SCROLL.** (Pen only.) Lets you position a document or image in any direction within the active application window by pressing a button set for PAN/SCROLL and then sliding with the pen tip across the tablet's active area.

When you select PAN/SCROLL, the PEN SCROLLING SPEED dialog box prompts you to set a scrolling speed that will be used in applications that do not support grabber hand (pixel-level) panning within a document or image.

A slower setting reduces the scroll rate and is useful for close-up and detail work where you need precise control of the image.



- **KEYSTROKE....** Enables you to simulate keystrokes. Selecting this option displays the DEFINE KEYSTROKE dialog box where you can enter a keystroke or keystroke sequence to play back.

You can manually enter a keystroke or keystroke combination in the KEYS entry box.

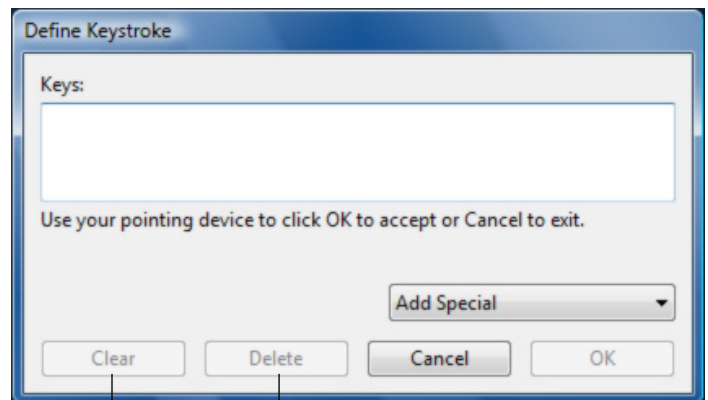
Keystroke combinations can include letters, numbers, function keys (such as F3) and modifier keys (such as SHIFT, ALT, or CTRL for Windows, or SHIFT, OPTION, COMMAND, and CONTROL for Macintosh).

You can also select special keystrokes or keystroke combinations from the ADD SPECIAL drop-down menu.

After defining a keystroke sequence, click OK.

Important: Because the ENTER (Windows) and RETURN (Macintosh) keys can be selected as a defined keystroke, they cannot be used to select OK. You must use your Graphire tool to click on the OK button.

If prompted, enter a name for the keystroke definition. The name will be displayed with the respective control or in the Pop-up Menu list, as applicable.



Clears the keystroke entry box.

Deletes only the last entry in the keystroke entry box.

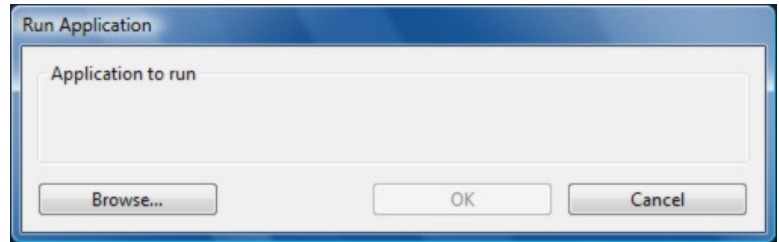




- **OPEN/RUN....** Opens a dialog box where you can select a specific application, file, or script to launch.

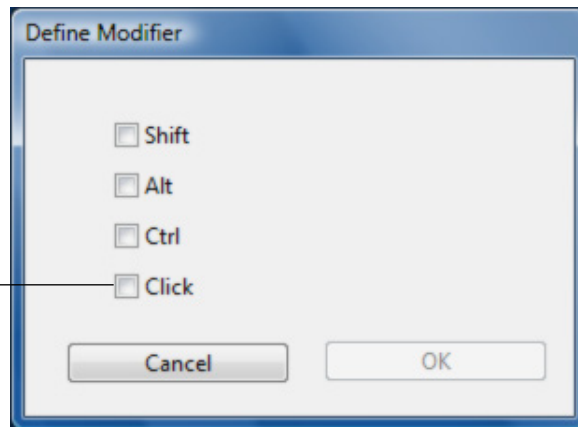
Click **BROWSE...** to locate an application, file, or script to launch. The selection you make appears in the **APPLICATION TO RUN** box.

Click **OK** to accept the selection. The dialog box will close and the **OPEN/RUN...** option will be assigned as your tool button option. If your selection is for the Pop-up Menu, it will be displayed in the Pop-up Menu list.



- **MODIFIER....** Enables you to assign modifier key(s) (such as **SHIFT**, **ALT**, or **CTRL** for Windows, or **SHIFT**, **OPTION**, **COMMAND**, and **CONTROL** for Macintosh). Many applications use modifier keys to constrain the size or placement of objects.

In addition to choosing one or more modifier key options, you can select the **CLICK** box if you want a mouse click to occur whenever you press the tool button.



CUSTOMIZING THE CORDLESS MOUSE

Open the Pen Tablet control panel and select the **MOUSE** tab to choose from the available options.



Customizing mouse buttons



Mouse mode settings





CUSTOMIZING MOUSE BUTTONS

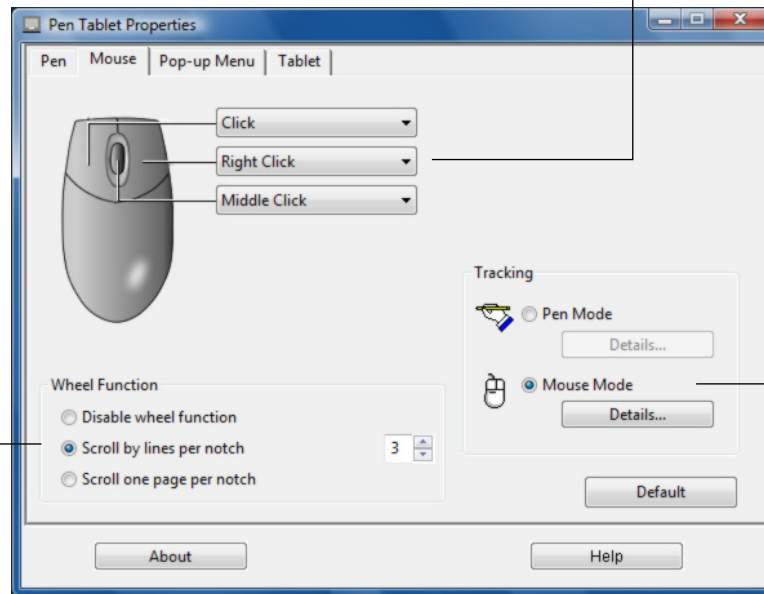
Select the Mouse tab to customize the mouse functions. See [button functions](#).

The cordless mouse buttons are chordable; you can press two or more buttons simultaneously.

For example, if you set one button to simulate the CTRL key and another to simulate an ALT keystroke, when you press both buttons a CTRL+ALT is simulated.

Select the function to perform when pressing a button.

The fingerwheel controls scrolling in most windows and applications. You can disable the fingerwheel function, set the fingerwheel to scroll a selected number of lines (one to 15) for each step of wheel movement, or set the fingerwheel to scroll one page for each step of wheel movement.



The TRACKING mode controls how the screen cursor moves.

In MOUSE MODE, the screen cursor moves with relative positioning. This is the default TRACKING mode for the cordless mouse.

Click DETAILS... for [setting mouse speed](#).

Notes:

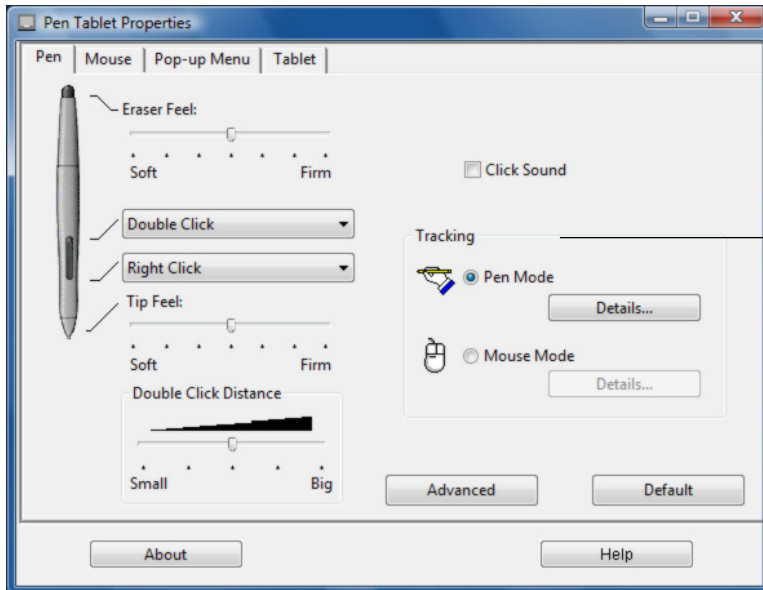
- The MOUSE tab will not display until you have used a cordless mouse on the tablet.
- To configure the cordless mouse for left-handed use, simply reassign the button functions as needed.
- If you frequently switch between PEN MODE and MOUSE MODE, you can assign the MODE TOGGLE... function to one of your tool buttons.





TABLET TRACKING

The tablet TRACKING options enable you to determine the relationship between pen (or cordless mouse) movement on the tablet surface and cursor movement on the display screen. By default the entire active area of the tablet maps to the entire display. If more than one display is in use the tablet will map to all displays. See [mapping to multiple displays](#).



The TRACKING mode you select controls how the screen cursor moves:

- Select PEN MODE to set the cursor so that its movement corresponds with the position of your Graphire tool on the tablet – wherever you place your tool on the tablet, the cursor will jump to a corresponding point on the screen. This is known as absolute positioning, and is the default setting for the Graphire pen. Click DETAILS... to customize the [tablet mapping](#).
- Select MOUSE MODE to move the screen cursor with a “pick up and slide” motion similar to using a traditional mouse. This is the default setting for the cordless mouse. Click DETAILS... for [setting mouse speed](#).

Note: If you frequently switch between PEN MODE and MOUSE MODE, you can assign the MODE TOGGLE... function to one of your tool buttons or ExpressKeys.

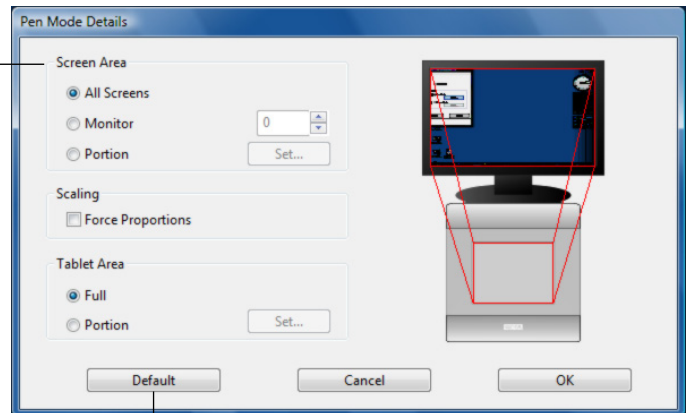




When you click on the PEN MODE DETAILS... button, the PEN MODE DETAILS dialog box is displayed.

Use the SCREEN AREA options to select a screen area for tablet to screen mapping.

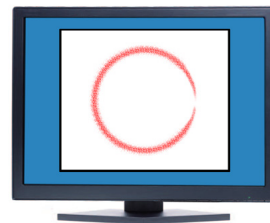
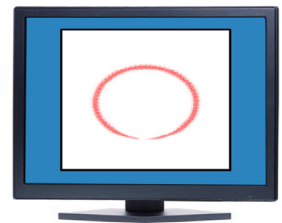
- **ALL SCREENS.** The entire display(s) area is mapped; this is the default setting. See [mapping to multiple displays](#) for more information.
- **MONITOR.** The entire area of a single display that you choose is mapped.
- **PORTION.** A portion of the desktop area is mapped. Click SET... to open a dialog box where you can set the [screen area](#).



Returns settings to their factory defaults.

FORCE PROPORTIONS. Check or uncheck the box to set the tablet to screen mapping relationship.

- When unchecked, the correct scale or proportions are not maintained. The selected tablet area is mapped to the selected display area. Drawing a circle on the tablet may create an ellipse on the display screen. This is the default setting.
- When checked, the correct vertical and horizontal proportions are maintained between the tablet and display. Drawing a circle on the tablet results in a circle on the display screen. Depending on your settings, some portions of the tablet active area may no longer be usable when this option is selected.



Use the TABLET AREA options to select a tablet area for tablet to screen mapping.

- **FULL.** The entire active area of the tablet is mapped. This is the default setting.
- **PORTION.** A portion of the tablet area is mapped. Click SET... to open a dialog box where you can set the [tablet area](#).





MAPPING TO MULTIPLE DISPLAYS

If your computer has more than one display, Graphire will map to your displays based upon how they are configured in the DISPLAY PROPERTIES control panel. If ALL SCREENS is selected and you are in extended monitor mode, the tablet will map to all displays as if they were one large display. If the displays are in mirror mode, the tablet will map to the entire space on each display and the screen cursor will appear on each display simultaneously.

See your hardware and operating system documentation for details on configuring your computer and operating system for use with multiple displays.

SCREEN AREA

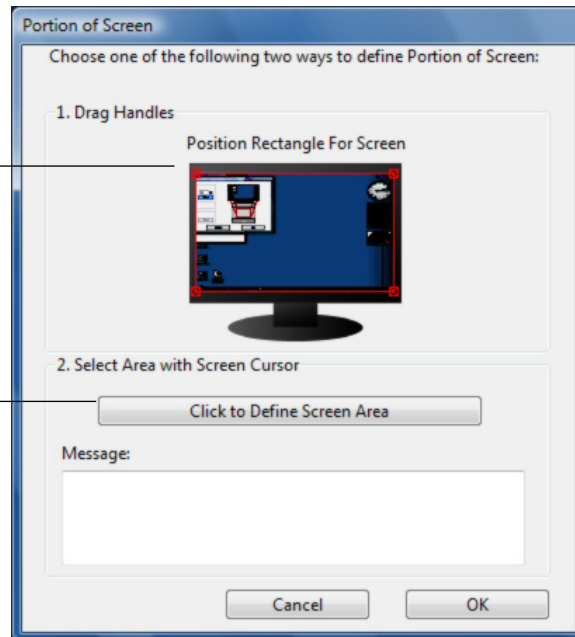
The tracking options in the PEN MODE DETAILS dialog box allow you to define which portion of the display screen your tablet will map to:

- **ALL SCREENS.** Maps the entire display(s) area. This is the default setting.
- **MONITOR.** Maps the entire area of a single display that you choose.
- **PORZION.** Allows you to select a portion of the display for tablet to screen mapping. Click SET... to open the PORTION OF SCREEN dialog box.

Choose a method for defining a portion of the display:

- Drag corners of the foreground graphic to select the screen area.
- Move the screen cursor to select the screen area. Select the CLICK TO DEFINE SCREEN AREA button. As you define PORTION OF SCREEN, follow any MESSAGE prompts to set the portion of your display screen that will be used for mapping.

After defining a portion of the screen, you may need to use a different input device to access other portions of the screen area.



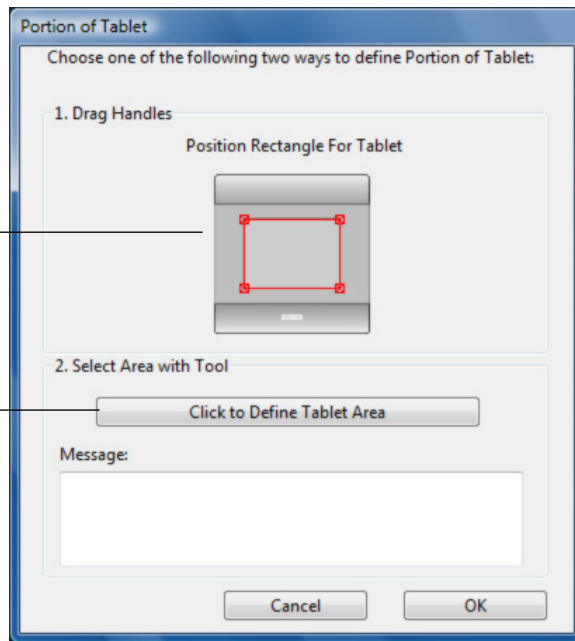
TABLET AREA

The tracking options in the PEN MODE DETAILS dialog box allow you to define the tablet area that will be mapped to the screen area:

- **FULL.** Maps the entire active area of the tablet for tablet to display mapping. This is the default setting.
- **PORTION.** Allows you to select a portion of the tablet active area for tablet to screen mapping. Click SET... to open the PORTION OF TABLET dialog box.

Choose a method for defining a portion of the tablet:

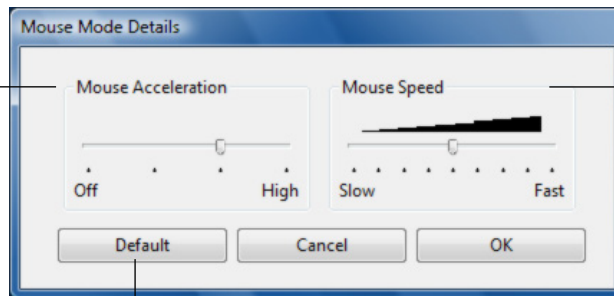
- Drag corners of the foreground graphic to select the tablet area that will be mapped to your selected screen area.
- Use your tool on the tablet to select the tablet area. Select the **CLICK TO DEFINE TABLET AREA** button. As you define PORTION OF TABLET, follow any MESSAGE prompts to set the portion of your tablet that will be used for mapping.



SETTING MOUSE SPEED

To change the screen cursor acceleration and speed when in MOUSE MODE, click on the MOUSE MODE DETAILS... button (located on the PEN or MOUSE tabs).

Sets the screen cursor acceleration when in MOUSE MODE.



Sets the screen cursor tracking speed when in MOUSE MODE.

Returns settings to their factory defaults.

Note: The dialog box will also appear when you first set a tool button to MODE TOGGLE.... Although MOUSE MODE settings can be accessed from a number of different locations within the control panel, only one ACCELERATION and SPEED setting can be made for each input tool that you are customizing.



WORKING WITH TABLET PROPERTIES

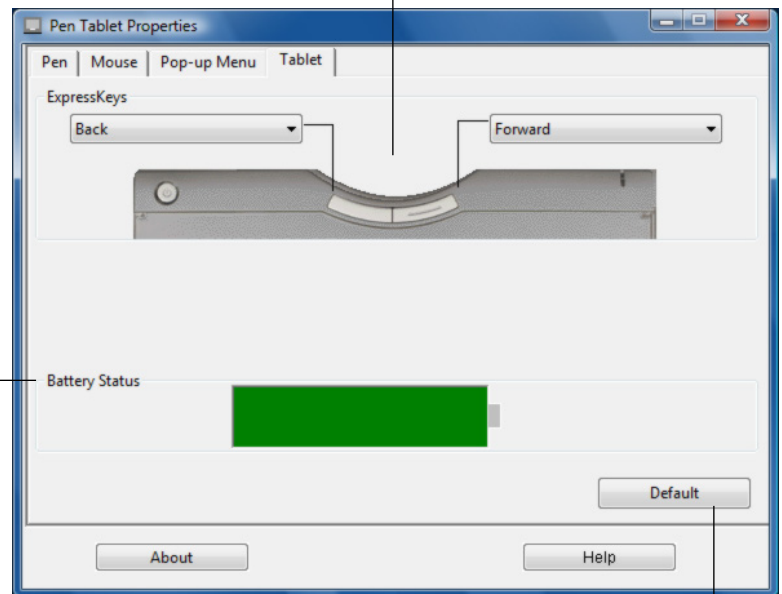
The TABLET tab is used to customize the ExpressKeys and the Bluetooth data transmission rate of Graphire Bluetooth. It also contains a BATTERY STATUS indicator.

The ExpressKeys can be customized to perform a modifier, keystroke, or other function. See [using the ExpressKeys](#).

Use the pull-down menus to choose a function that will be performed when the key is pressed.

The BATTERY STATUS indicator shows the percentage of battery charge remaining.

- A green level indicates the battery charge is greater than 25%.
- A red level indicates the battery charge is at or less than 25%.
- A power plug icon indicates that the external power adapter is plugged in.
- A “?” mark indicates the tablet is not detected. The tablet may have switched off automatically. See [power saving features](#).



Returns the tab settings to their factory default conditions.

Note: For Windows systems, a battery level icon is also displayed on the Windows Taskbar when the tablet is running under battery power.

When operating under outlet power, a power plug icon will be displayed instead.



CUSTOMIZING THE POP-UP MENU

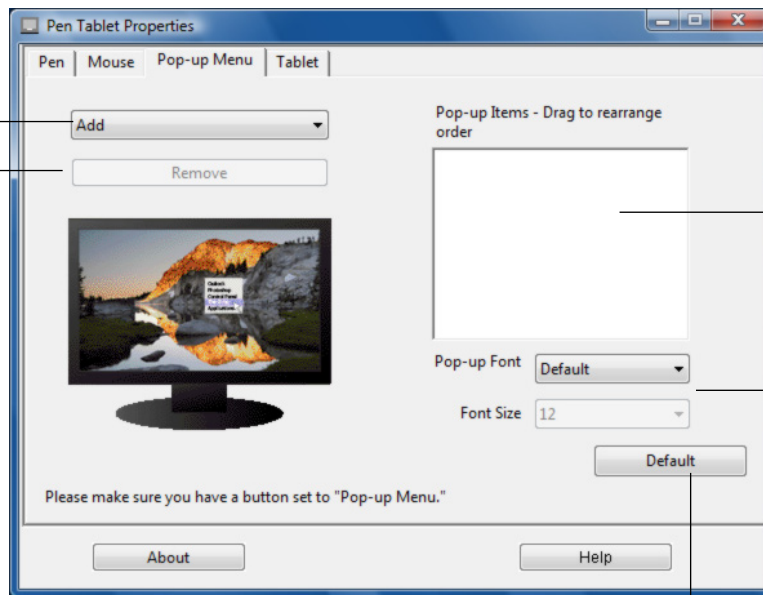
Use the POP-UP MENU tab to define the available functions on the Pop-up Menu list.

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

Displays a list of functions that have been added to the Pop-up Menu. To change the order of an item, drag it to a new location. Double-click on an item to make edits.

Select a button function to add to the Pop-up Menu list.

Removes the selected item from the list.



Sets the FONT and FONT SIZE of the Pop-up Menu.

Returns all tab settings to their default values.

Important: This action will delete all Pop-up Menu items that have been defined.



TROUBLESHOOTING

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

1. If the pen tablet driver failed to load properly, first perform the recommended action in any error message that may appear on your screen. If that does not solve the problem, refer to the troubleshooting procedures 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 Wacom tablet Read Me file for late-breaking information.
4. Test your tablet and input tools. See [testing your tablet](#) and [testing your tools](#).
5. If you are having a compatibility conflict between Graphire and a new hardware or software product, check if a newer pen tablet software driver is available. See [obtaining driver downloads](#) for information on downloading an updated software driver. Wacom periodically updates the software driver to maintain compatibility with new products.
6. Check the FAQs (Frequently Asked Questions) on the Wacom web site for your region.
7. If you have tried the suggestions in this manual and still cannot resolve the problem, then contact Wacom for Technical Support. See [technical support options](#) and the Read Me file for information on where to obtain support for your region.

[Testing your tablet](#)

[Testing your tools](#)

[Troubleshooting tables](#)

[Technical support options](#)

[Obtaining driver downloads](#)





TESTING YOUR TABLET

Turn on your computer and wait until the system has fully loaded. Make sure that your computer has a working Bluetooth connection, either through built-in Bluetooth support or a USB-to-Bluetooth adapter. If you have another Bluetooth device such as a mouse or keyboard, make sure it is working.

1. **Check the AC power adapter.** With the power adapter connected to the tablet and an active power source, the charging indicator will glow a steady green if the battery is fully charged. (For Windows systems, a power plug icon is also displayed on the Windows Taskbar.) If the battery is charging, the indicator will glow orange. The indicator will be off if the power adapter is not plugged in or is not connected to an active power outlet.
2. **Check the Bluetooth connection.** Switch on the Graphire Bluetooth pen tablet by pressing and releasing the power button. If the power indicator light stays on for more than five seconds, your Bluetooth connection is working. Otherwise, it is not.

If necessary, troubleshoot the connection as follows:

- If you have an external USB-to-Bluetooth adapter, make sure it is plugged into an active USB port or hub on your computer.
 - If you have built-in Bluetooth support, make sure it is turned on.
 - Make sure your Bluetooth support is working properly. Test the functionality with a different wireless Bluetooth device or check the documentation that came with your Bluetooth support to make sure it is working correctly.
 - On Windows systems, make sure that you have installed your Bluetooth wireless device drivers correctly. (Some USB-to-Bluetooth adapters are supported in Windows XP, SP-2 and later operating systems, and do not need a driver. Refer to your Microsoft documentation for details.)
 - Make sure that your Bluetooth configuration supports Bluetooth Specification v1.1 or higher, and the HID profile.
 - Make another attempt to pair the tablet to your system. See [establishing a Bluetooth connection](#).
3. **Check the ExpressKeys.** The power indicator light should turn green when a button is pressed.
 4. If any of these tests fail you may have defective hardware. See [technical support options](#).
 5. Move on to [testing your tools](#).





TESTING YOUR TOOLS

If your tool does not work as you expect, it is a good idea to first check the assigned functions or to reset the tool to its default condition using the Pen Tablet control panel.

1. Check the pen.

- Move your pen across the active area of the tablet; the screen cursor should move in the corresponding direction on your display screen.
- Press the pen tip against the surface of the tablet. The power indicator light should turn from blue to green.
- Next, without applying pressure to the pen tip, hold the pen tip within approximately 5 mm (0.20 inch) above the tablet surface and press the side switch. The power indicator light should again change from blue to green.
- Turn the pen over and press the eraser against the surface of the tablet; the power indicator light should change from blue to green.
- If not, you may have a defective pen or tablet. See [technical support options](#).

2. Check the cordless mouse.

- Move the cordless mouse across the active area of the tablet; the screen cursor should move in the corresponding direction on your display.
- Test the buttons on your cordless mouse by clicking each button. The tablet power indicator light should turn green when a button is pressed.
- If not, you may have a defective cordless mouse or tablet. See [technical support options](#).





TROUBLESHOOTING TABLES

If you encounter problems with your Graphire 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 information updates.

For additional information, visit Wacom's web site at <http://www.wacom.com/productsupport> and follow the links to the FAQs.

[Connection problems](#)

[General problems](#)

[Windows-specific problems](#)

[Macintosh-specific problems](#)

CONNECTION PROBLEMS

The computer does not have a Bluetooth connection.

If your computer does not have built-in Bluetooth support, you will need to install a USB-to-Bluetooth adapter in order to add wireless connectivity to your computer. The adapter must support Bluetooth Specification v1.1 with Human Interface Device (HID) profile. Wacom suggests the use of adapters supporting Bluetooth Specification v1.2 or later for improved performance.

After pressing the power button, the power indicator light glows steadily for two to five seconds and then switches off.

The tablet was previously paired to a computer but could not connect to that computer. Check the following:

If the tablet was previously paired to a computer and you now want to use it on a different computer, you must first pair it with that new computer. See [establishing a Bluetooth connection](#).

If the tablet was previously working on your computer but works no longer, check the configuration of your Bluetooth connection:

- If you are using a USB-to-Bluetooth adapter, make sure it is plugged in and working. If you are using a computer with a built-in Bluetooth module, make sure it is enabled and working.
- Test your computer's Bluetooth support with a Bluetooth mouse or keyboard.
- Open the Bluetooth control panel and make sure the tablet was not disconnected.
- Move the tablet closer to the antenna and make sure there are no metal or other high density obstructions in the line of sight between the tablet and Bluetooth antenna.
- Repeat the process of pairing your tablet to the computer. See [establishing a Bluetooth connection](#).





After pressing the power button, the power indicator light blinks rapidly.

The tablet has not been paired to a computer, or the connection has been broken either by pressing the tablet's CONNECT button or by deleting the pairing from the Bluetooth control panel. Pair the tablet to your computer as described in [establishing a Bluetooth connection](#).

The power indicator light does not come on after pressing the power button.

Try again. If the light does not come on after repeated attempts, your battery charge may be too low.

Plug in the AC power adapter and try again. If the charging indicator does not light the battery may be defective.

When pairing the tablet, the tablet does not appear in the list of available devices to pair.

- The tablet should appear in the pairing list with a mouse icon named WACOM PEN TABLET.
- If the power indicator light is not blinking, press the CONNECT button on the back of the tablet to make the tablet discoverable. The tablet will be in discoverable mode for three (3) minutes and the power indicator light will blink twice per second.
- Verify that your Bluetooth configuration supports Bluetooth Specification v1.1 or later with Human Interface Device (HID) profile.
- Make sure the tablet is not too far away from the antenna, and that there are no metal obstructions between the Bluetooth antenna and the tablet.

A "pairing unsuccessful" message is displayed when attempting to link the tablet to the computer.

Check for possible interference from other wireless devices, such as from a cordless telephone or microwave oven. If you suspect interference, turn off the interfering device or move it farther away from your computer.

Try again linking the wireless tablet to the computer.

Pairing was successful, but the wireless tablet does not seem to work correctly.

Be sure that you have correctly installed the Wacom Pen Tablet driver software.

See also [optimizing the Bluetooth connection](#).

The tablet works fine when the power adapter is connected, but switches off as soon as the adapter is disconnected.

- Open the battery compartment and make sure the battery is properly connected.
- Check the battery appearance to ensure there is no leakage or other indication of damage.
- Charge the battery overnight and try again. If the problem persists, the battery may be defective and can no longer hold a charge. You will have to purchase a replacement battery from Wacom. See [ordering parts and accessories](#).





After switching on the tablet, the power indicator light remains on but the screen cursor cannot be moved with the pen or cordless mouse.

- Review [using the cordless pen](#) and [using the cordless mouse](#) to be sure you are using the input tools correctly.
- Switch the tablet power off, then back on.
- If your battery charge is low, plug in the power adapter.
- Try resetting the tablet by simultaneously pressing both ExpressKeys and the power button for about five seconds. Then turn off the tablet and switch it back on. Check the pen and mouse operation.
- Reset the tablet by disconnecting both the battery and the AC power connector for at least 10 seconds. Then reconnect the tablet battery and try again.

GENERAL PROBLEMS

The charging indicator does not light when the power adapter is plugged in.

Check that the power adapter is properly plugged into the tablet, and that the AC power cord is plugged into the power adapter and an active power outlet.

The battery may need replacement. See [replacing the tablet battery](#).

While using the tablet, the tablet power indicator light flashes once per second.

The battery is nearly empty. Plug in the power adapter to continue working, or power down the tablet.

The pen works only in MOUSE MODE, and does not draw with pressure-sensitivity.

The tablet driver software was not installed or did not load properly. Make sure the tablet driver software is installed and functioning. Insert the Wacom Pen Tablet Driver CD into your computer and install the driver software for the tablet.

The pen does not draw or ink with pressure sensitivity.

Some applications require that you turn on the pressure capabilities within the application or the selected tool before the pen will respond as a pressure-sensitive tool.

Clicking is difficult.

Try using a lighter Tip Feel (see [adjusting tip feel, eraser feel, and double-click](#)).

Select the CLICK SOUND option so that you can hear when the pen registers a mouse click. Your computer speakers must be turned on and the volume audible before you can hear CLICK SOUND.





Double-clicking is difficult.	<p>Be sure you are quickly tapping the tablet twice in the same place on the tablet active area.</p> <p>Using the side switch to double-click is recommended (review the techniques in clicking).</p> <p>Set one of the tablet ExpressKeys to DOUBLE CLICK and use it to issue double-clicks.</p> <p>See adjusting tip feel, eraser feel, and double-click:</p> <ul style="list-style-type: none"> • Try increasing the DOUBLE-CLICK DISTANCE. • Try using a lighter TIP FEEL. <p>Windows: Try setting your system to launch programs with a single click. See clicking.</p>
The pen selects everything, will not stop selecting.	Open the Pen Tablet control panel and go to the PEN tab. Move the TIP FEEL slider toward FIRM. If this does not help, see testing your tablet .
The eraser selects everything or will not stop erasing.	Open the Pen Tablet control panel and go to the PEN tab. Move the ERASER FEEL slider toward FIRM. If this does not help, see testing your tablet .
You notice a screen delay at the beginning of pen strokes.	Try decreasing the DOUBLE-CLICK DISTANCE (see adjusting tip feel, eraser feel, and double-click).
You have to press hard with the pen when clicking or drawing.	Open the Pen Tablet control panel and go to the Pen tab. Move the TIP FEEL slider toward SOFT.
The pen tip does not function.	<p>Be sure you are using the pen that originally came with your pen tablet. Other pens may not function properly on the Graphire tablet.</p> <p>Make sure the power indicator light changes from blue to green when the pen tip is pressed to the tablet surface. If it does not, you may have defective hardware (see testing your tablet).</p>
The side switch does not work.	<p>Be sure you press the side switch when the pen tip is within 5 mm (0.20 inch) of the tablet active area – do this without pressing down on the pen tip.</p> <p>In the Pen Tablet control panel, click on the PEN tab ADVANCED button. If CLICK & TAP is selected, you will need to first press the pen button and then touch the pen tip to the tablet surface in order to perform a click function. See customizing the side switch.</p> <p>From the Pen Tablet control panel, verify that the side switch is set to the function you are expecting to occur.</p> <p>Make sure the power indicator light changes from blue to green when you press the side switch. If it does not, you may have defective hardware (see testing your tablet).</p>
The screen cursor jumps back.	Do not place the pen or cordless mouse on the tablet when they are not in use, or when you are 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 Pen Tablet control panel. Verify that PEN MODE is selected. If this does not help, click on the DEFAULT button to reestablish the default tablet to screen mapping. If you are still having difficulty, remove the tablet preferences (see next tip).

You suspect the tablet preferences may be corrupted, or want to make certain that all settings are at their factory defaults.

Delete the tablet preferences as follows:

Windows: Click the START icon and select ALL PROGRAMS. Then select PEN TABLET and PEN TABLET PREFERENCE FILE UTILITY. In the dialog box that appears, click on the REMOVE MY PREFERENCE FILE button to delete the preferences for the current user. To delete preferences for multiple users on Windows Vista or XP systems, click on the REMOVE ALL PREFERENCE FILES button. Note that administrator rights are required to delete preferences for all users. Relaunch any currently open tablet-aware applications that you may be running.

Macintosh: For a single user, delete the tablet preferences by first choosing your HOME folder from the GO menu. Then open your home LIBRARY folder. Within your home LIBRARY folder, open the PREFERENCES folder and delete the COM.WACOM.PENTABLET.PREFS file. Log out, then log back in. When the tablet driver loads it will create a new preferences file with the factory defaults.

For multiple users, delete all tablet preferences by first opening the main APPLICATIONS folder. Then open the TABLET folder and run the REMOVE PEN TABLET utility. When the utility starts, click on the REMOVE ALL PREFERENCE FILES button. Log out, then log back in. The tablet driver will be restarted, creating new preferences files with the factory defaults.

Note: Do not manually remove the PEN TABLET.PREFPANE file from the main LIBRARY PREFERENCEPANES folder. This file is only to be removed when uninstalling the tablet software driver, and then only when using the REMOVE PEN TABLET utility.

The computer does not go to sleep.

When you are not using the pen or cordless mouse, remove them from the tablet surface or the tablet will continue to send data, keeping the computer awake.

When using the tablet the screen cursor is very erratic or jumps around.

On rare occasions the tablet may receive interfering radio frequencies from a computer display or nearby AM radio station. If you notice interference from a display, try moving the tablet at least six (6) inches away from the display, or change the display refresh rate or resolution.

If the screen cursor lags or jumps, try [optimizing the Bluetooth connection](#).

When using the tablet, the screen cursor or pen strokes seem to lag or skip in some applications.

See [optimizing the Bluetooth connection](#) for tips on improving the Bluetooth connection.





WINDOWS-SPECIFIC PROBLEMS

After changing right- and left-handed settings in the system's Mouse control panel, the pen tip no longer functions properly and the cordless mouse button functions are reversed.

This will reverse the right and left button settings on your Wacom tools. Restart Windows for your Wacom tool settings to be correctly recognized.

MACINTOSH-SPECIFIC 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 the Bluetooth connection to your tablet is active. Make sure also that the tablet power indicator light is illuminated.

From the GO menu, select the UTILITIES folder and launch the SYSTEM PROFILER. Select Bluetooth from the Hardware section of the CONTENTS list. A Wacom Bluetooth tablet should be listed. If a tablet model is not listed, check the Bluetooth wireless connection.

If you are still having problems, go to the Applications/Utilities folder, open the Disk Utility program, and run REPAIR DISK PERMISSIONS from the FIRST AID tab. If this does not help, contact Wacom for Technical Support. See [technical support options](#).

Cannot switch off Graphire Bluetooth after closing the lid on an Apple laptop computer.

Switch off the tablet before closing the lid on your Apple laptop.

Do not worry. The tablet will automatically switch off five (5) minutes after you close the lid on your Apple laptop.

Alternatively, if you prevent Bluetooth devices from waking your computer, the tablet will immediately switch off when your computer goes to sleep or when you close the lid of your Apple laptop. To prevent Bluetooth devices from waking your computer:

1. From the Apple menu, choose SYSTEM PREFERENCES....
2. Click on the BLUETOOTH icon, located in the HARDWARE section of the System Preferences pane.
3. In the BLUETOOTH control panel, select the SETTINGS tab.
4. Make sure that the ALLOW BLUETOOTH DEVICES TO WAKE THIS COMPUTER option is not checked.
5. Quit System Preferences.





Inkwell does not work correctly with the tablet.

There may be a problem with the Inkwell preferences. Remove the damaged preference files as follows. They will be recreated when you enable handwriting recognition.

1. From the Apple menu, choose SYSTEM PREFERENCES. From the System Preferences menu, choose SHOW ALL and select INK. Then turn off handwriting recognition.
2. From the GO menu, choose your HOME. Open the LIBRARY and PREFERENCES folders. Then remove the following preferences:
 - com.apple.ink.framework.plist
 - com.apple.ink.inkpad.plist
 - com.apple.ink.inkpad.sketch
3. Go back to SYSTEM PREFERENCES and INK, and then enable handwriting recognition.
4. Test the Inkwell function using your pen tablet and pen.
5. If this procedure does not resolve your problem with Inkwell, contact Apple Support for further assistance. Wacom is not the software manufacturer for Inkwell and we are limited in our abilities to support a third party software application.

TECHNICAL SUPPORT OPTIONS

If you have a problem with your Wacom tablet, first check the tablet installation guide to be sure the unit is installed correctly. Then review the [troubleshooting](#) procedures within this manual.

If you cannot find the answer in this manual, you may find updated information about your problem in the Read Me file for your platform (located on the Wacom Pen Tablet Driver CD). You can also check the product FAQs (Frequently Asked Questions) on the Wacom web site for your region.

If you have an Internet connection you can download the latest software drivers from the Wacom web site for your region. See [obtaining driver downloads](#) for your region.

If you cannot solve the problem and you think your Wacom tablet is not working properly, contact the Wacom support staff for the area where your product was purchased. See the Wacom tablet Read Me file, located on the Wacom Pen Tablet Driver CD, for contact information.

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 Wacom Pen Tablet Driver CD or the Pen Tablet control panel.)
- The make and model of your computer, and operating system version number.
- A list of peripheral devices attached to your computer.
- The software application and version you were using when the problem occurred.
- 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.





OBTAINING DRIVER DOWNLOADS

Wacom periodically updates the tablet software driver to maintain compatibility with new products. If you are having a compatibility problem between Graphire and a new hardware or software product, it may be helpful to download a new pen tablet software driver (when available) from the Internet.

USA, Canada, Central and South America

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

Europe, Middle East and Africa

Worldwide Web: <http://www.wacom.eu> Software updates.

Anonymous FTP Site: <ftp://ftp.wacom.eu/pub/> Software updates.

Japan

Worldwide Web: <http://tablet.wacom.co.jp> Software updates. (Japanese)

Asia Pacific (English)

Worldwide Web: <http://www.wacom-asia.com> Software updates. (English)

China

Worldwide Web: <http://www.wacom.com.cn> Software updates.
(Simplified Chinese)

Korea

Worldwide Web: <http://www.wacomdigital.co.kr> Software updates. (Korean)

Taiwan

Worldwide Web: <http://www.wacom.com.tw> Software updates.
(Traditional Chinese)





APPENDIX

This section contains information and tips on tablet installation, caring for your tablet and tools, a how-to on uninstalling the tablet software, your license and warranty, and more.

[Tablet installation](#)

[Caring for your tablet and tools](#)

[Battery life information](#)

[Replacing the tablet battery](#)

[Uninstalling the tablet software](#)

[Pen and digital ink capabilities in Windows Vista](#)

[Product specifications](#)

[Product information](#)

[Ordering parts and accessories](#)

[Radio and television interference](#)

[License and Warranties \(Worldwide, Except for Europe, Africa and Middle East\)](#)

[License and Warranty \(Europe, Africa and Middle East\)](#)

TABLET INSTALLATION

For detailed instructions, please review the Quick Start Guide that came with your tablet. See also [establishing a Bluetooth connection](#).

CARING FOR YOUR TABLET AND TOOLS

Keep your Graphire tools and tablet surface clean. Dust and dirt particles can stick to your tools and cause excessive wear to the tablet surface. Regular cleaning with a soft, damp cloth will help to prolong the life of your tablet surface and tools; you can also dampen the cloth using a very mild soap diluted with water. Do *not* use volatile liquids, such as paint thinner or benzene, as 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 Graphire 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: Take care to never spill liquids onto the tablet, pen, or cordless mouse. Be especially careful of getting the tablet, mouse, or pen buttons (including the tip and eraser) wet – they contain sensitive electronic parts that will fail if liquids enter them.





REPLACING THE PEN TIP

The pen 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. Simply clasp the old nib with a tweezer, needle-nosed plier, or similar instrument and pull it straight out of the pen. Then slide the end of the new nib straight into the barrel of the pen – firmly push the nib until it stops.



Important: When the Graphire pen is not in use, place it in the pen storage compartment, the pen stand, or lay it flat on your desk. Leaving the pen on the tablet when not in use can prevent the tablet from switching off and cause the battery to drain down. To maintain the sensitivity of your pen, do not store the pen in a container where it will rest on the tip or eraser.

Warning: Prevent children from swallowing the pen tip or side switch. The pen tip (nib) or side switch may accidentally be pulled out if children are biting on them.

To order replacement parts, see [ordering parts and accessories](#).

BATTERY LIFE INFORMATION

All Li-Ion batteries age over time and typically need to be replaced approximately once every two or three years, whether they are used or not. For information on ordering a replacement battery, see [ordering parts and accessories](#).

Notes:

- When the battery is connected, the tablet will use a small amount of current even when the tablet is switched off. It is a good idea to charge the battery before leaving the tablet unused for a number of days. There is a built-in protection circuit that will prevent the battery from over-discharging. Once a Li-Ion battery has been over-discharged it cannot be recharged.
- If you will not be using your tablet for an extended period of time (a month or longer), Wacom suggests unplugging the battery from the tablet connector in order to conserve the charge and battery life. Store the battery in a cool, dry place.
- Li-Ion batteries are not affected by cycling or other methods used to improve the performance of different battery types.





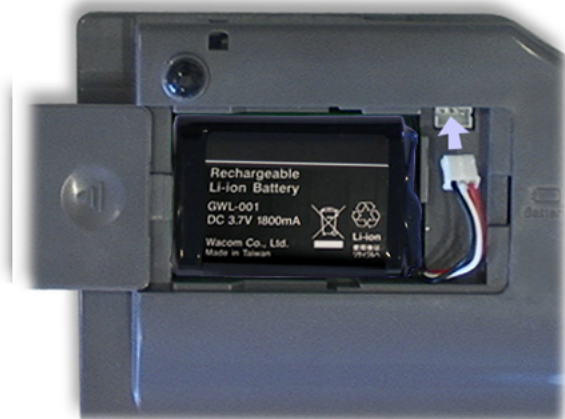
REPLACING THE TABLET BATTERY

If your tablet battery has exceeded its life span and can no longer be adequately charged, it will need to be replaced. Be sure to use only a rechargeable Lithium-Ion (Li-Ion) battery designed for your tablet. For information on ordering a replacement battery, see [ordering parts and accessories](#).

⚠ Warning: NEVER attempt to charge other battery types in your tablet with the power adapter. If you do so, you may damage the tablet, cause a fire, or personal injury may result.

To replace the tablet battery:

1. First turn the wireless tablet upside down and slide open the battery compartment door.
2. Carefully remove the old tablet battery by disconnecting the cable from the tablet.
3. Align the notch on the new battery cable plug with the cutout in the tablet connector, then press the plug into the connector as shown.



Important: When replacing the tablet battery, be careful not to drop it on hard surfaces. The battery can be damaged internally when dropped, and should be replaced even if there is no obvious damage. This will help prevent any future damage that could occur to the tablet if the battery has been dropped, is installed in the tablet, and then later develops a short or leak while in the tablet.

Properly dispose of the old battery in accordance with the battery manufacturer recommendations, and with the warnings listed below. Keep batteries out of the reach of children, and promptly dispose of old batteries.

Many communities offer voluntary or mandatory recycling programs for batteries – when disposing of batteries, follow all applicable laws and recycle your old batteries whenever possible.

4. Insert the battery into the battery compartment and close the compartment door.

⚠ Warnings:

When installing the battery, do not attempt to install it backwards or reverse the polarity. If you do so, you may damage the tablet, cause a fire, or personal injury may result.

When disposing of the Li-Ion battery, do not carry it loosely in your pocket or in any container that may contain metal objects. If transported improperly and metal objects come in contact with the battery terminals, the battery could short, causing personal injury or fire. It is recommended that you cover the terminals with adhesive tape to insulate them from possible contact with metal objects.

Do not abuse the battery in any manner. Puncturing, crushing, heating, exposure to water or fire, disassembly, shorting the terminals, or other types of abuse may cause the battery to explode or ignite, and potentially cause a fire or personal injury.

If the battery should leak, do not get the fluid in your eye. If battery fluid does enter the eye, do not rub the eye. Immediately rinse the affected eye with water and seek medical attention.





UNINSTALLING THE TABLET SOFTWARE

Follow the appropriate procedure below to remove the pen tablet driver software from your system.

Important: When you remove the pen tablet software from your system, your pen tablet will no longer operate with full tablet functionality but will continue to function as a mouse device.

Windows Vista: Click on the Windows START button and choose CONTROL PANEL. In the CONTROL PANEL window, click on UNINSTALL A PROGRAM. In the dialog box that appears, choose the TABLET option. Click on the UNINSTALL button and follow the prompts to remove the tablet driver. (If prompted, enter your administrator login name and password.)

Windows XP or XP x64: Click START. In the start menu, select CONTROL PANEL. Then select ADD OR REMOVE PROGRAMS. In the ADD OR REMOVE PROGRAMS window, choose PEN TABLET and click on the REMOVE button. Follow the prompts to remove the tablet driver.

Macintosh: From the GO menu, choose APPLICATIONS and open the PEN TABLET folder. Double-click on the REMOVE PEN TABLET icon and select the REMOVE TABLET SOFTWARE button. Enter your administrator login name and password. After the removal is completed, click OK.

Note: To fully remove the Graphire Bluetooth pen tablet from your computer, you will need to delete the paired connection from the Bluetooth devices control panel for your operating system.





PEN AND DIGITAL INK CAPABILITIES IN WINDOWS VISTA

Microsoft Windows Vista provides extensive support for pen* and touch input. When using the pen tablet with a computer running Windows Vista, your experience is enhanced by powerful note taking, handwriting recognition, fast navigation, and other digital inking options designed to give you quick, intuitive results with the Graphire pen.

- **Note taking.** Use your Graphire pen to jot notes and capture quick sketches in Microsoft Journal. Journal simulates a physical notebook, but with the advantages of digital note taking – you can choose from a variety of pen, marker, and highlighter tools, plus an eraser that is easily activated by the eraser end of your Graphire pen. Journal also includes a powerful search engine that can even locate your handwritten content.
- **Handwriting recognition.** Because Windows Vista includes powerful handwriting recognition capabilities, you can use your Graphire pen to quickly enter handwritten information anywhere the computer accepts typed input. You can convert your handwritten content to typed text at any time.
- **Gestures.** Use your Graphire pen to make simple gestural movements on the tablet to trigger customizable actions for navigation, editing, and other functions. To customize your gestures, select the FLICKS tab in the PEN AND INPUT DEVICES control panel.
- **Digital Ink in Microsoft Office 2007.** Use your Graphire pen to full advantage with the enhanced digital mark-up and inking tools available in Microsoft Office 2007 applications running on Windows Vista. Found on the REVIEW tab within applicable applications, these tools provide a consistent set of inking options. For quick access, you can add specific inking tools to the Quick Access Toolbar located at the top of each application.

Note: The following workarounds in the pen tablet driver improve drawing performance in Vista:

- The Vista Pen Flicks and Press-and-hold-to-right-click features are disabled in graphics applications using the Wintab API.
- There is no pressure sensitivity in Journal and other Vista Ink features when both the Flicks and Press-and-hold-to-right-click features are disabled in the Vista PEN AND INPUT DEVICES control panel.

* Pen features supported in all versions of Windows Vista except Vista Home Basic.





ABOUT THE WINDOWS VISTA TABLET PC INPUT PANEL

The Windows Vista Tablet PC Input Panel enables you to use handwriting or an on-screen keyboard to directly enter text with your Graphire pen. There are a number of ways to launch the Input Panel:

- Click on the Input Panel icon which appears when you move the screen cursor into a text entry area.
- Click on the Input Panel tab, located by default on the left edge of the display screen.
- Click on the Tablet PC Input Panel icon located on the Windows taskbar. If the icon is not visible, right-click on the taskbar, select TOOLBARS, and TABLET PC INPUT PANEL.

To customize the Input Panel:

1. First open the Input Panel and then click on TOOLS in the menu bar.
2. Select OPTIONS to open the Input Panel Options dialog box.
3. Customize the Input Panel settings for the way you like to work.

To learn more about using your Graphire pen in Microsoft Windows Vista and Office 2007, study the documentation that came with your system and Microsoft Office applications. Be sure to take advantage of the Windows Vista training tools, including the Tablet PC tutorial, available from Microsoft.

You can visit also the Wacom web site at www.wacom.com/vista for additional information on working with your Graphire pen in Windows Vista.





PRODUCT SPECIFICATIONS

GRAPHIRE BLUETOOTH PEN TABLET (MODEL CTE-630BT)

Coordinate resolution	80 lpmm (2032 lpi)
Accuracy, pen	+/- 0.5 mm (0.02 in)
Reading height with pen, average	5 mm (0.20 in)
Maximum report rate	100 points per second
Tablet ExpressKeys stroke	1 mm (0.04 in), approximately
Communication interface	Bluetooth wireless technology
Power requirements	DC 6V, 550 mA, from power adapter
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
Certifications and compliance	FCC Class B, CE, VCCI Class B, C-Tick
Active area (W x D)	208.8 x 150.8 mm (8.22 x 5.94 in)
Physical size (W x D x H)	257 x 24.3 x 280 mm (10.13 x 0.96 x 11.03 in)
Weight	0.86 kg (1.9 lb), approximately
Battery	Rechargeable Lithium-Ion (Li-Ion) cell, 3.7V, 1800 mAh
Connectivity	Bluetooth wireless technology using HID protocol.
Power adapter	Input voltage: 100 to 240 VAC, 50/60 Hz, 0.3 VA Output voltage: 6 VDC, 1.0 A





GRAPHIRE PEN (MODEL EP-130E)

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)

GRAPHIRE CORDLESS MOUSE (MODEL EC-130)

Physical size (L x W x H)	115 x 60 x 38 mm (4.53 x 2.36 x 1.50 in), approximately
Weight	90 g (0.20 lb), approximately
Fingerwheel type	Continuous rotation, 24 steps per revolution

GRAPHIRE 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)

Note: When you purchase an Inking Pen, it comes with a blank nib in the pen. Use the included nib puller (silver ring) to gently remove the blank nib from the pen. Then insert one of the silver-colored cartridges that come with the Inking Pen. The cartridge tip has a waxy coating that you will need to rub off before you can begin inking. The Inking Pen will not fit into the pen storage compartment or pen stand.





PRODUCT INFORMATION

To learn more about Graphire Bluetooth, and about which software applications are currently tablet enhanced to support the pressure sensitivity, eraser, and other special functionality of your pen 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.eu
Japan	http://tablet.wacom.co.jp
Asia Pacific (English)	http://www.wacom-asia.com
China (Simplified Chinese)	http://www.wacom.com.cn
Korea	http://www.wacomdigital.co.kr
Taiwan	http://www.wacom.com.tw
Thailand	http://www.wacom-thai.com

ORDERING PARTS AND ACCESSORIES

To purchase parts and accessories, refer to the tablet Read Me file and see who to call for your region.

Description	Part numbers
Tablet battery (Li-Ion)	GWL-001
Photo frame (6x8/A5)	PPL-A145
Replacement tips for pen (EP-130E models)	PSI-A007
Pen stand	PST-A031
Pen tether (optional)	FUZ-A107
Power adapter	A10W-0610I
Power cable for use in USA	SM-045 / SM-103
Power cable for use in UK	YP-60 / YC-13
Power cable, for use in Europe, other than UK	SH-037 / SH-103

You can also do the following:

To purchase parts and accessories in the USA or Canada, call 1.888.884.1870 (toll-free) or visit Wacom's web site at <http://www.wacomdirect.com> (USA only).

To purchase parts and accessories in Europe, call +49 (0)180.500.03.75 or send an email to spareparts@wacom.eu. Or, visit www.wacom.eu/solutionstore. You can also contact your local dealer, distributor, or technical support using the appropriate number for your region.

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

Please note that not all parts and accessories are available in all regions.





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 device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 equipment is causing interference by disconnecting it from your computer. If the interference stops, it was probably caused by the equipment.

If the equipment 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 equipment farther away from the television or radio.
- Plug the equipment 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.

CE DECLARATION

The Wacom Graphire® Bluetooth® wireless technology digitizing tablet, model CTE-630BT, has been tested and found to comply with the following harmonized European Norms:

- EN 55024 (electromagnetic immunity)
- EN 55022 Class B (electromagnetic emissions)
- EN 60950 (electrical safety)
- EN 300328 (radio and telecommunications terminal equipment)
- EN 301489 (electromagnetic compatibility and radio spectrum matters)

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 their amendment Directive 93/68/EEC, and to the Directive 1999/5/EC and indicates this conformity by the CE-sign on each device.

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





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Fax: 1.360.896.9724

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Phone: +81-3-3509-1588

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GLOSSARY

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

Aspect. The ratio between the vertical and horizontal dimension of the tablet or display.

Bluetooth. A standardized wireless technology and Specification. Manufacturers build this into their products in order to create Bluetooth devices, enabling seamless voice and data connections between a variety of wireless devices operating at short range to one another.

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

Digital Ink. A broad category that typically describes handwritten content which has been created using pen-based input on a computer. This handwritten content takes the form of sketches, ink mark-up, or handwriting. The handwriting can optionally be converted to typewritten text or simply left alone for use in its original format. Depending on your system and application settings, the handwritten text you make with digital ink can be converted on-the-fly or at another time.

Discoverable mode. An operational state in which a Bluetooth device is available for discovery by another Bluetooth device.

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.

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

ExpressKeys. The customizable control keys located on your wireless tablet.

Fingerwheel. The control wheel on the cordless mouse.

Journal. A Microsoft Windows application that electronically simulates a physical journal pad, but with the advantages of digital note taking. For example, you can create quick sketches and jot handwritten notes that can be converted to text and sent on to colleagues for digital mark-up. Journal includes a variety of pen, marker, and highlighter tools, plus an eraser that is easily activated by the eraser end of your Graphire pen. Additionally, your handwritten content is searchable within Journal.

Mapping. The relationship between your Graphire tool position on the tablet and the cursor position on the display screen.

Modifier. Modifier keys include SHIFT, ALT, and CTRL for Windows, or SHIFT, CONTROL, COMMAND, and OPTION for Macintosh. You can customize your Graphire tool to simulate a modifier key.

Mouse acceleration. A setting that allows you to adjust the screen cursor acceleration when your Graphire tool is in mouse mode.

Mouse mode. A method for positioning the screen cursor. When you place a Graphire tool on the tablet, you can move the screen cursor with a "pick up and slide" motion similar to using a traditional mouse. This is known as relative positioning, and is the default setting for the cordless mouse. See also [pen mode](#).

Mouse speed. A setting that allows you to adjust the speed at which your screen cursor moves when your Graphire tool is in mouse mode.





Nib. The replaceable pen tip.

Pairing. A method of creating a virtual cable link between two Bluetooth devices.

Pen mode. A method of positioning the screen cursor. Wherever you place your Graphire tool on the tablet, the screen cursor will jump to the same corresponding point on the screen. This is known as absolute positioning, and is the default setting for the Graphire pen. Also, PEN MODE allows you to quickly position the screen cursor without having to first find it and then move it across the desktop. See also [mouse mode](#).

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

Pop-up Menu. A window that displays a list of keystroke functions and other actions you can perform. You can customize the buttons of your Graphire tools to display this menu.

Pressure sensitive. A quality of the Graphire 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 [active area](#) where the Graphire tools are detected. Refer also to the [pointing](#) section.

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.

Tablet PC Input Panel (TIP). The Microsoft Windows Vista Tablet PC Input Panel enables you to use your Graphire pen to create handwritten notes or work with an on-screen keyboard. The Input Panel dynamically converts your handwriting to text. The information you create can then be inserted into other documents, spreadsheets, or illustrations. See also [pen and digital ink capabilities in Windows Vista](#).

Transceiver. A radio device capable of both transmitting and receiving information.

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.

Wintab. An interface standard used by Windows applications for receiving tablet information. Graphire supports all Wintab-compatible applications under Windows.





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