

WACOM

Intuos

User's Manual for Windows

Navigation

Contents

Index



Wacom Intuos™ User's Manual for Windows™, February 12, 1998
International English V1.0 for PCs

Copyright © Wacom Company, Limited, 1998

All rights reserved. No part of this manual may be reproduced except for your express personal use. Wacom reserves the right to revise this publication without obligation to provide notification of such changes. Wacom does its best to provide current and accurate information in this manual. However, Wacom reserves the right to change any specifications and product configurations at its discretion, without prior notice and without obligation to include such changes in this manual.

TRADEMARKS

Wacom is a registered trademark. Intuos, Tool ID, QuickPoint, DuoSwitch, and DualTrack are trademarks of Wacom Company, Limited in the United States and/or other countries. Acrobat® Reader Copyright © 1987-1996 Adobe Systems Incorporated. All rights reserved. Adobe and Acrobat are trademarks of Adobe Systems Incorporated which may be registered in certain jurisdictions. MetaCreations is a trademark, and Painter is a registered trademark of MetaCreations Corporation. Microsoft, MS, IntelliMouse, Windows, Windows 95, and Windows NT are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Any additional company and product names mentioned in this documentation may be trademarked and/or registered as trademarks. Mention of third-party products is for information purposes only and constitutes neither an endorsement nor a recommendation. Wacom assumes no responsibility with regard to the performance or use of these products.



RADIO AND TELEVISION INTERFERENCE

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

FCC NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of FCC rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

You can determine whether your tablet is causing interference by disconnecting it from the computer. If the interference stops, it was probably caused by the tablet.

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

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

If necessary, consult your authorized Wacom dealer or an experienced radio/television technician for additional suggestions. Changes or modifications to this product not authorized by Wacom could void the FCC Certification and negate your authority to operate the product.

This product was tested for FCC compliance under conditions that included the use of shielded cables and connectors between system components. It is important that you use shielded cables and connectors to reduce the possibility of causing interference to radios, television sets, and other electronic devices.



CE DECLARATION

The Intuos™ digitizing tablets, models GD-0405-R, GD-0608-R, GD-0912-R, GD-1212-R, and GD-1218-R, have been tested by the TÜV Rheinland in Japan (an accredited EMC laboratory) and found to comply to the following harmonized European Norms: ~~WAVE~~

- EN 50 082-1 (electromagnetic immunity)
- EN 55-022 Class B (electromagnetic emissions)

The Wacom power adaptors have been tested by their manufacturers and found to comply to the following harmonized European Norms:

- EN 50 082-1 (electromagnetic immunity)
- EN 55-022 Class B (electromagnetic emissions)
- EN 60742 (safety of low voltage devices)

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

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

BZT NOTICE

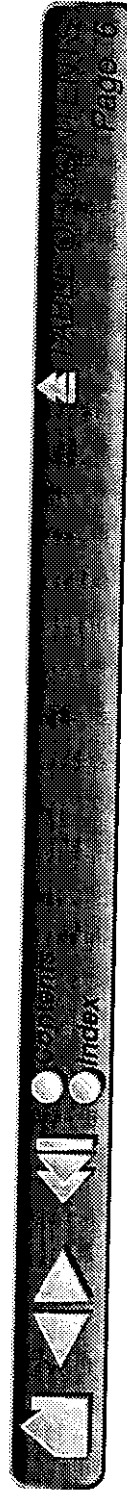
The Intuos™ digitizing tablets, models GD-0405-R, GD-0608-R, GD-0912-R, GD-1212-R, and GD-1218-R, have been tested for radio emission characteristics and found to comply to the regulations of BMPT official gazette decree 243/1991. However, you must pay attention to the instructions in this manual and use the devices only in the prescribed way. The Bundesamt für Zulassungen in der Telekommunikation (BZT) has received notice of issuing of this equipment and has been granted authorization for inspection of the series. WACOM Co., Ltd., Japan.



TABLE OF CONTENTS

Trademarks	28
Radio and Television Interference	28
FCC Notice	29
CE Declaration	30
BZT Notice	31
About the Manual	32
Navigating the Manual	33
INSTALLATION	34
Things to Know Before Installation	35
Hardware Installation	36
Software Installation	37
Uninstalling the Software	38
Registration	38
Product Information	39
USING INTUOS	40
Appearance and Features	41
Intuos 4x5 Tablet	41
Intuos 6x8 and 9x12 Tablets	42
Intuos 12x12 and 12x18 Tablets	43
Intuos Tools	43
Setting Up Your Work Area	44
Working with the Tablet	45
Adjusting the Pen Stand	46
Adjusting Tablet Incline	47
Using The Tablet Menu Strip	49
Using the Pen	51
Holding the Pen	51
Pointing	51
Clicking	51
Using the Side Switch	51
Dragging	51
Proximity	51
Drawing with Pressure	51
Drawing with Tilt	51
Erasing	51
Eye-Hand Coordination Exercise	51
Using the Airbrush	51
Holding the Airbrush	51
Using the 4D Mouse	51
Setting Right- or Left-Handed Operation	51
Using the 4D Mouse Thumbwheel	51
Using the Lens Cursor	51
Caring for Your Tools and Tablet	51
Replacing the Pen or Airbrush Tip	51
CUSTOMIZING	51
Opening the Control Panel	51
Control Panel Features	51
Tabs	51
Control Panel Lists	51
Control Panel Buttons	51

<u>Customizing Your Tools</u>	<u>52</u>	<u>Working with Application-Specific Settings</u>	<u>88</u>
<u>Pen and Airbrush Tabs</u>	<u>52</u>	<u>Creating an Application-Specific Setting</u>	<u>85</u>
<u>4D Mouse and Lens Cursor Tabs</u>	<u>52</u>	<u>Adding Additional Tools to an Application's Tool List</u>	<u>87</u>
<u>Adjusting Tip Feel</u>	<u>53</u>	<u>Changing Settings for a Specific Application and Tool</u>	<u>88</u>
<u>Adjusting Double-Click</u>	<u>54</u>	<u>Removing Application-Specific Settings</u>	<u>88</u>
<u>Customizing Tool Buttons</u>	<u>55</u>	<u>Checking Your Tablet Connection</u>	<u>89</u>
<u>Button Functions</u>	<u>56</u>	<u>Pull-Down Menus</u>	<u>90</u>
<u>Airbrush Settings</u>	<u>60</u>	<u>File</u>	<u>90</u>
<u>Adjusting Eraser Feel</u>	<u>61</u>	<u>Edit</u>	<u>90</u>
<u>Customizing Tilt Sensitivity</u>	<u>62</u>	<u>Add</u>	<u>91</u>
<u>Tablet to Screen Mapping</u>	<u>63</u>	<u>Remove</u>	<u>91</u>
<u>Positioning Mode</u>	<u>64</u>	<u>Language</u>	<u>92</u>
<u>Orientation</u>	<u>65</u>	<u>Help</u>	<u>92</u>
<u>Aspect</u>	<u>66</u>	ADVANCED FEATURES	93
<u>Tablet Area</u>	<u>67</u>	<u>Advanced Tip Pressure Settings</u>	<u>94</u>
<u>Display Area</u>	<u>70</u>	<u>Click Force Adjustment</u>	<u>95</u>
<u>Customizing the 4D Mouse and Lens Cursor</u>	<u>71</u>	<u>Pressure Curve Adjustment</u>	<u>96</u>
<u>Programming the 4D Mouse and Lens Cursor</u>	<u>72</u>	<u>Advanced Eraser Pressure Settings</u>	<u>98</u>
<u>Using Your 4D Mouse as a 15-Button Mouse</u>	<u>72</u>	<u>Copying Settings</u>	<u>99</u>
<u>Creating a Button Box</u>	<u>74</u>	<u>Using DualTrack</u>	<u>100</u>
<u>Customizing the 4D Mouse Thumbwheel</u>	<u>75</u>	<u>Advanced Mapping</u>	<u>101</u>
<u>Customizing the Pop-up Menu</u>	<u>76</u>	HAVING TROUBLE?	107
<u>Add Keystrokes</u>	<u>77</u>	<u>Testing Your Intuos Tablet and Tools</u>	<u>108</u>
<u>Add Mapping Options</u>	<u>77</u>	<u>Testing a Pen or Airbrush</u>	<u>108</u>
<u>Removing Keystrokes and Mapping Options</u>	<u>77</u>	<u>Testing a 4D Mouse or Lens Cursor</u>	<u>109</u>
<u>Customizing Tablet Buttons</u>	<u>78</u>	<u>Troubleshooting</u>	<u>110</u>
<u>Working with Multiple Tools</u>	<u>80</u>	<u>General Problems</u>	<u>110</u>
<u>Adding a New Tool</u>	<u>81</u>	<u>Windows-Specific Problems</u>	<u>110</u>
<u>Using More Than One Tool</u>	<u>82</u>		



<u>Contacting Technical Support</u>	<u>114</u>	<u>Parts and Accessories</u>	<u>129</u>
<u>Linking to the Web Page</u>	<u>114</u>	<u>Pens</u>	<u>129</u>
<u>Pre-Contact Checklist</u>	<u>114</u>	<u>Airbrush</u>	<u>130</u>
<u>Who to Call</u>	<u>115</u>	<u>4D Mouse</u>	<u>130</u>
<u>USA, Canada, Central and South America</u>	<u>115</u>	<u>Lens cursor</u>	<u>130</u>
<u>Europe, Middle East and Africa</u>	<u>116</u>	<u>Other Parts and Accessories</u>	<u>131</u>
<u>Japan</u>	<u>117</u>	<u>License and Warranties (USA)</u>	<u>132</u>
<u>Asia Pacific (English)</u>	<u>117</u>	<u>Software License</u>	<u>132</u>
<u>APPENDICES</u>	<u>118</u>	<u>Limited Warranty</u>	<u>133</u>
<u>Installing Multiple Tablets</u>	<u>119</u>	<u>Warranty on Sales Outside of U.S. and Canada</u>	<u>135</u>
<u>Working with AutoCAD</u>	<u>120</u>	<u>License and Warranties (Europe)</u>	<u>136</u>
<u>Configuring for a WinTab Compatible Digitizer</u>	<u>120</u>	<u>Software License</u>	<u>136</u>
<u>Configuring Tablet Menus and Screen Pointing Areas</u>	<u>121</u>	<u>Limited Warranty and Liability</u>	<u>137</u>
<u>Product Specifications</u>	<u>124</u>	<u>GLOSSARY</u>	<u>139</u>
<u>General Specifications for All Intuos Tablets</u>	<u>124</u>	<u>INDEX</u>	<u>143</u>
<u>Intuos Tablet 4x5 (Model GD-0405-R)</u>	<u>125</u>		
<u>Intuos 6x8 Tablet (Model GD-0608-R)</u>	<u>125</u>		
<u>Intuos 9x12 Tablet (Model GD-0912-R)</u>	<u>125</u>		
<u>Intuos 12x12 Tablet (Model GD-1212-R)</u>	<u>126</u>		
<u>Intuos 12x18 Tablet (Model GD-1218-R)</u>	<u>126</u>		
<u>Intuos Pen (Model GP-300E)</u>	<u>126</u>		
<u>Intuos Airbrush (Model GP-400E)</u>	<u>127</u>		
<u>Intuos Inking Pen (Model GP-110)</u>	<u>127</u>		
<u>Intuos Stroke Pen (Model GP-120)</u>	<u>128</u>		
<u>Intuos 4D Mouse (Model GC-500)</u>	<u>128</u>		
<u>Intuos Lens Cursor (Model GC-210)</u>	<u>128</u>		

ABOUT THE MANUAL

This interactive User's Manual provides quick access to information about Intuos. Just click on a navigation button or highlighted word to move through the document. You can copy this manual to your hard drive by dragging the Intuos MANUAL.PDF icon to your desktop or to a new folder.

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

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.

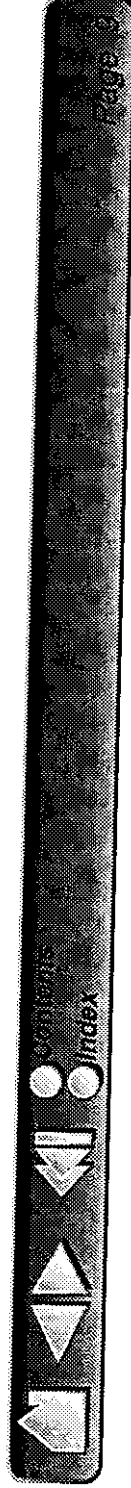
As you read through the *Customizing* and *Advanced Features* chapters, you will notice that the screen shots of the control panel tabs do not show the tab buttons. These are intentionally left out in order to save space within the manual.

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

Certain kinds of information are not included in this manual:

- Information about your specific computer hardware.
- Information about your operating system.
- Information about other Wacom tablets.
- Information about application software. Many graphics applications have built-in support for Intuos features (such as pressure-sensitivity, tilt, airbrush simulation, 3D navigation with the 4D Mouse, and two-handed input). You can find a listing of applications that support these features at Wacom's web site (see Product Information). Refer also to your application manuals for information on how best to use Intuos features within specific applications.

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

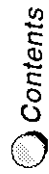


NAVIGATING THE MANUAL

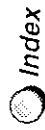
Use the navigation controls to move through the manual:



Go to front page.



Go to Table of Contents.



Go to Index.



Go back to previous view.



Page back, or page forward.



Go to beginning of section.

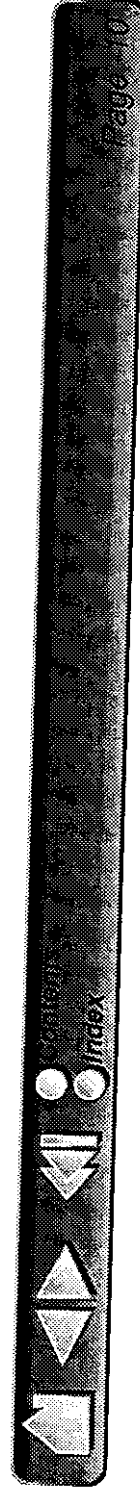


Go to topic.



Topic continued.

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



INSTALLATION

Intuos is compatible with Windows 95 or later and NT 4.0 or later, and with all applications that support a mouse.

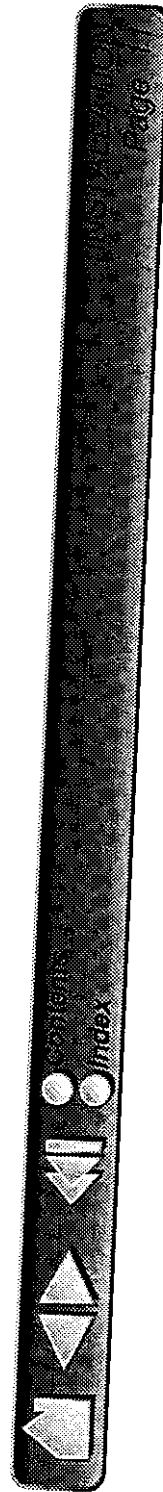
Before you install the Intuos Graphics Tablet System, be sure to turn off your computer. Connect the hardware, then install the software.

THINGS TO KNOW BEFORE INSTALLATION

HARDWARE INSTALLATION

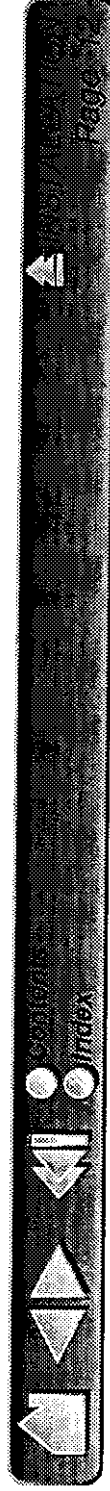
SOFTWARE INSTALLATION

UNINSTALLING THE SOFTWARE REGISTRATION



THINGS TO KNOW BEFORE INSTALLATION

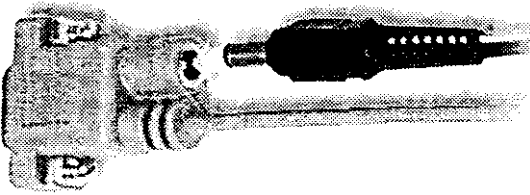
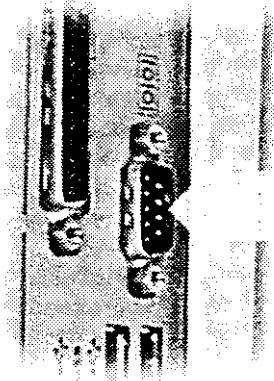
- Turn off your computer and attach the tablet *before* installing the software.
- If your computer does not have an available serial port, you will need to remove an existing serial device or add an additional serial port.
- Some computers have a built-in modem and the external serial port may be disabled or configured with the same serial port address as the modem. If your tablet does not communicate properly after installing the hardware and software, check your serial port to verify that it is properly configured. See [Having Trouble?](#) for more information.
- If you are using a DOS shell under Windows 95 or later or NT 4.0 or later, Intuos will automatically function in the DOS shell after you install the Wacom drivers for Windows.



HARDWARE INSTALLATION

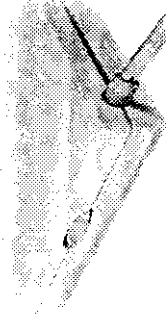
To install your Intuos tablet:

- 1 Turn off your computer.
- 2 Connect the AC power cable to the tablet cable.
- 3 Connect the tablet cable to a serial communication port.



- 4 Connect the power adapter to your AC outlet or power strip. The tablet's LED will light.

Note: If you have a 12x12 or larger tablet, turn on the power switch (located on the right side of the tablet).



- 5 Turn on your computer.

If you have any trouble with the installation, go to [Having Trouble?](#) Otherwise, move on to [Software Installation](#).

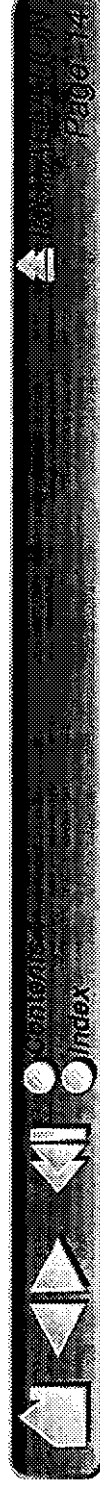
SOFTWARE INSTALLATION

To install your Intuos software for Windows 95 or later and NT 4.0 or later:

1. Make sure the tablet's power and serial cables are connected, then turn on your computer. The status LED on your tablet should light to indicate the tablet is powered up.
2. After Windows has started, insert the Intuos CD-ROM into your computer. If you see the NEW HARDWARE FOUND dialog box, select DRIVER FROM DISK PROVIDED BY HARDWARE MANUFACTURER and press ENTER. Type the name of your CD-ROM drive, for example d:\. Then press ENTER and follow the screen prompts.
3. If the PLUG AND PLAY dialog does not appear, click on the START button and then click RUN....
Important: If you replaced your mouse with the tablet, press CTRL-ESC to open the START menu. Use the arrow keys to select RUN..., and then press ENTER.
In the dialog box, type d:\setup. If your CD-ROM has a different drive letter, type that letter instead of d:. Click OK and follow the prompts.
4. When finished, close all open applications and restart your computer. After restarting Windows you will be able to use your Intuos tool to move the screen cursor.

Important: When starting Windows 95 or later in safe mode, the driver software for Intuos will not load and the tablet will not function.

If you had any trouble with this installation, go to [Having Trouble?](#)



UNINSTALLING THE SOFTWARE

To remove the Intuos software from your system:

1. Click the Windows START button. Then choose SETTINGS and CONTROL PANEL.
2. In the CONTROL PANEL window, double-click on the ADD/REMOVE PROGRAMS icon.
3. In the dialog box that appears, choose the Wacom tablet option.
4. Click on the ADD/REMOVE... button and follow the prompts to remove the Intuos software driver.

REGISTRATION

To register your product, please complete and mail in the Wacom Registration Card that came with your tablet.

Online registration may be available in some regions. If available, the Internet location will be printed on your Registration Card.

PRODUCT INFORMATION

To learn more about which software applications currently support your Intuos tablet and tools, visit the Wacom web site for your region:

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



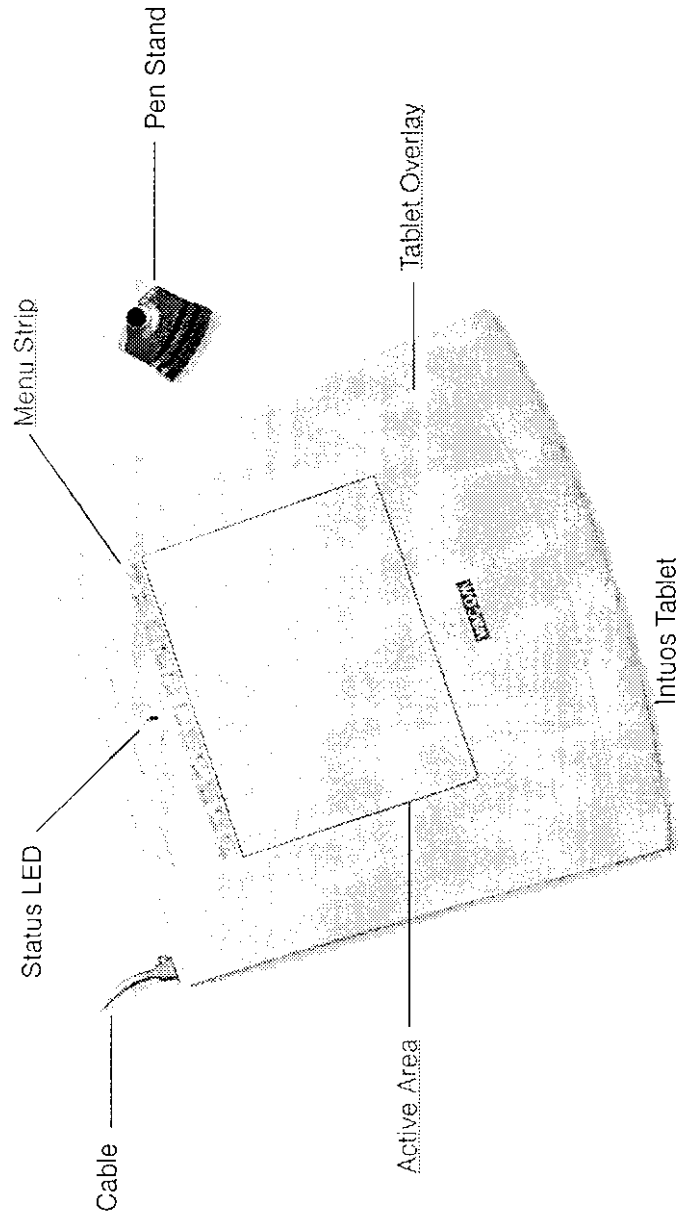
This section introduces you to the Intuos Graphics Tablet System. If you are new to using a graphics tablet and tablet input tools, read the following sections. They describe your Intuos tools and explain how to use them with the tablet.

- APPEARANCE AND FEATURES
- SETTING UP YOUR WORK AREA
- WORKING WITH THE TABLET
- USING THE PEN
- USING THE AIRBRUSH
- USING THE 4D MOUSE
- USING THE LENS CURSOR
- CARING FOR YOUR TOOLS AND TABLET

APPEARANCE AND FEATURES

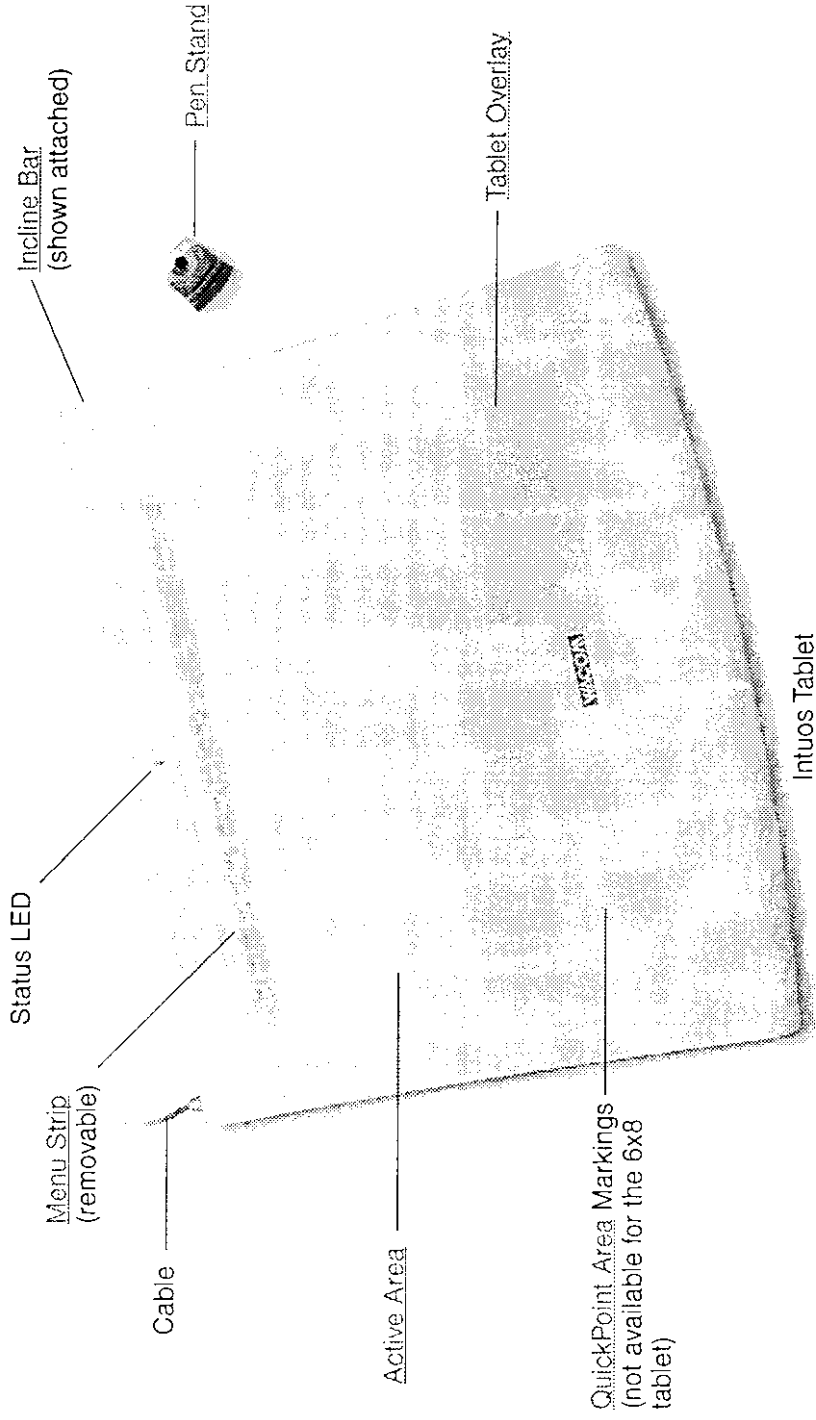
The Intuos Graphics Tablet System consists of two basic elements: a graphics tablet that serves as your work area, and the [Intuos Tools](#) you use with the tablet. For a complete listing of Intuos tablets, refer to [Parts and Accessories](#).

INTUOS 4X5 TABLET



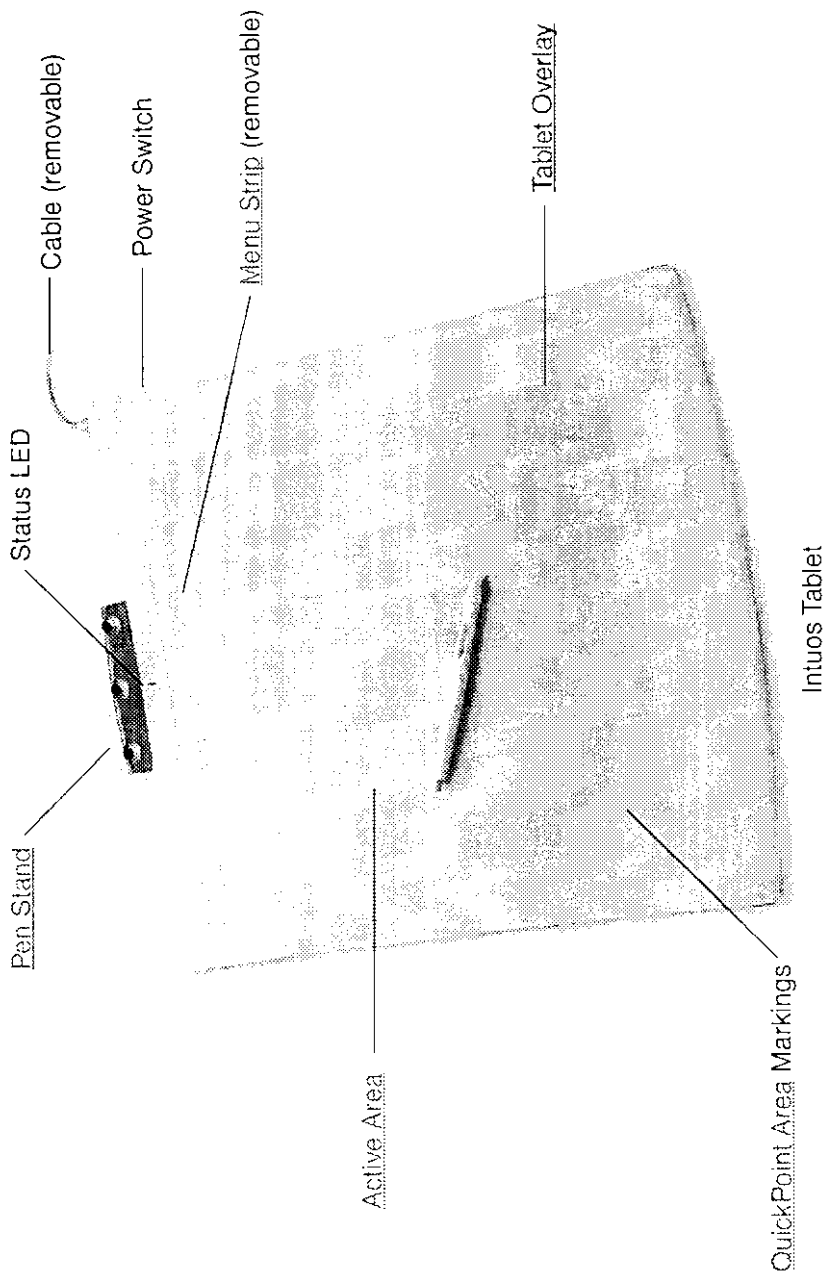
Note: To learn more about your tablet, see [Working with the Tablet](#).

INTUOS 6X8 AND 9X12 TABLETS



Note: The Intuos 9x12 tablet is shown. To learn more about your tablet, see [Working with the Tablet](#).

INTUOS 12X12 AND 12X18 TABLETS



Note: The Intuos 12x12 tablet is shown. To learn more about your tablet, see *Working with the Tablet*.



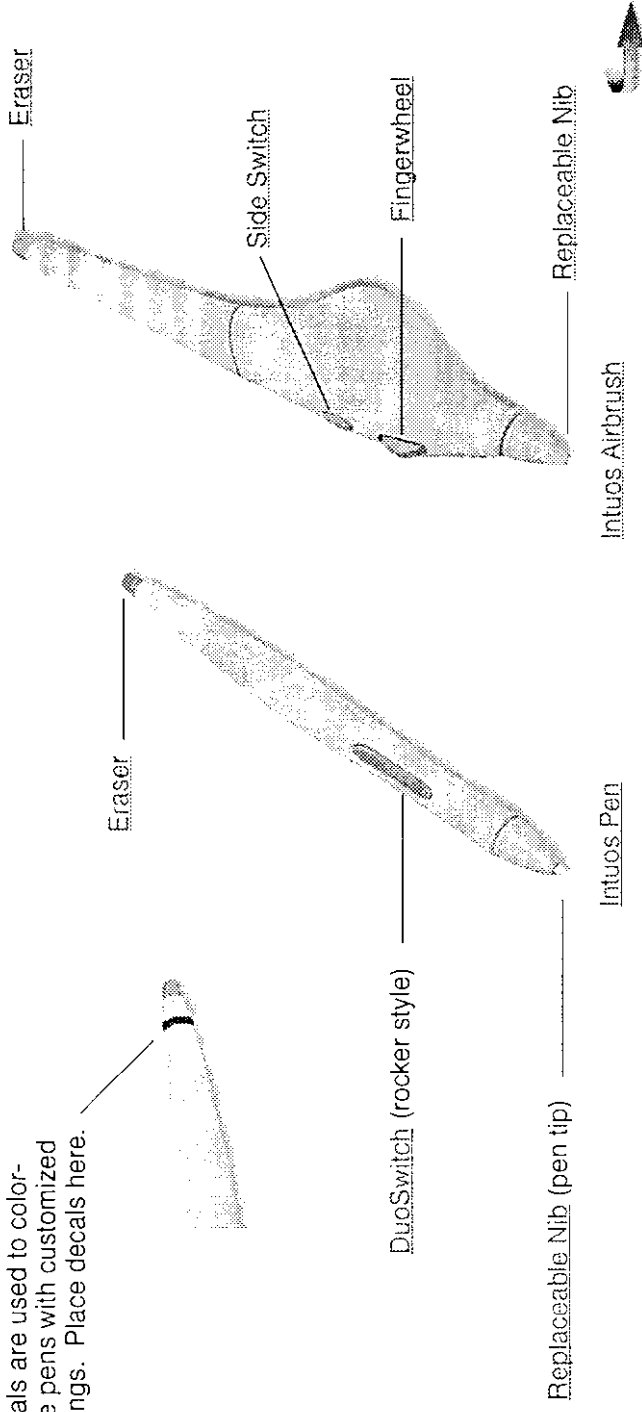
INTUOS TOOLS

A variety of Intuos tools are available for your tablet. All Intuos tools are cordless, batteryless, and ergonomically designed. Each tool also has a Tool ID, enabling you to work with multiple tools on the same tablet and to customize each tool differently.

Note: The tool(s) included with your tablet will vary depending on which tablet model and configuration you purchased. For ordering information, refer to Parts and Accessories.

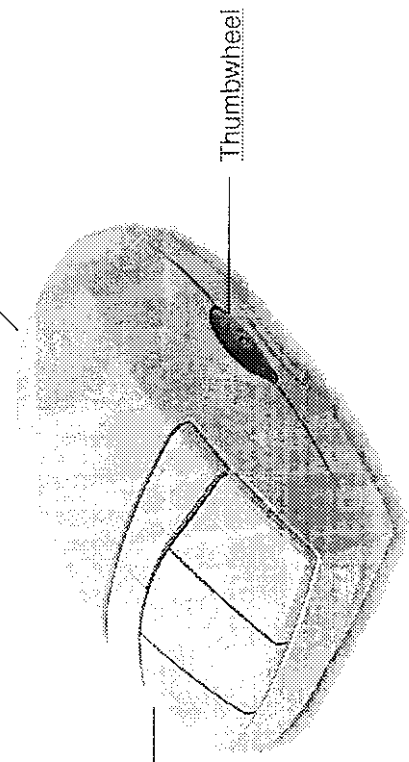
The Intuos Pen and Airbrush are pressure-sensitive freehand tools for creating natural-looking pen and brush strokes.

Decals are used to color-code pens with customized settings. Place decals here.



The Intuos 4D Mouse is an ideal tool for 2D or 3D navigation. It provides four degrees of control: x and y position, thumbwheel position, and positional rotation. The thumbwheel can be set to emulate the Microsoft IntelliMouse™ and used for scrolling, zooming, and other tasks in supporting applications.

Adjustable for left- or right-handed use.



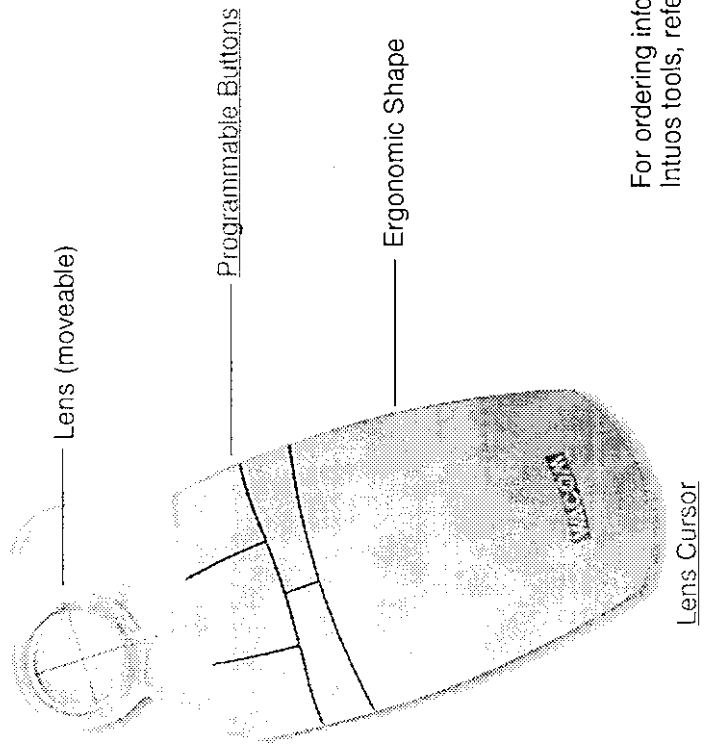
Programmable Buttons

Thumbwheel

4D Mouse



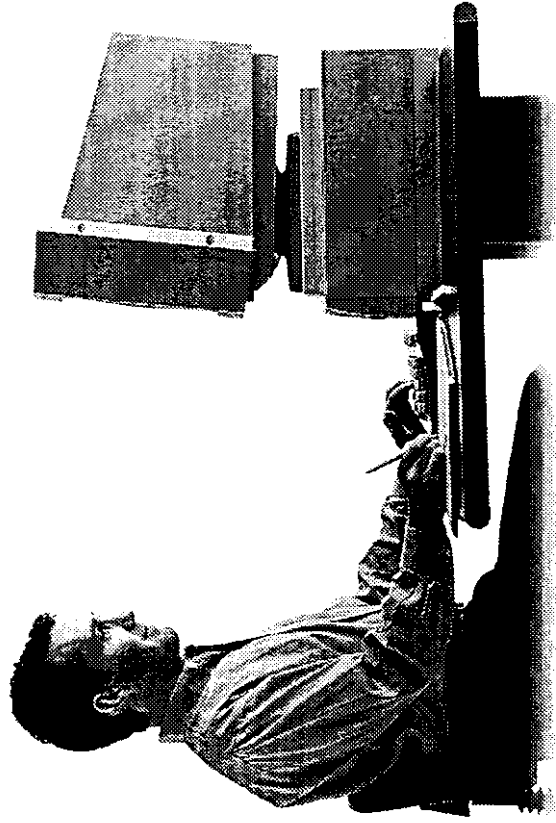
The Lens Cursor is an ideal tool for entering precise coordinate position information. Use the Lens Cursor with graphics and CAD applications for tracing or digitizing images.



For ordering information on these and other available Intuos tools, refer to [Parts and Accessories](#).

SETTING UP YOUR WORK AREA

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



To minimize fatigue:

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

For some tablet models, you can adjust the tablet incline and attach the pen stand to better fit your work style. Refer to [Adjusting Tablet Incline](#) and [Adjusting the Pen Stand](#) for additional information.



WORKING WITH THE TABLET

Your tablet comes with a pen stand, customizable menu strip, and transparent overlay.

ADJUSTING THE PEN STAND

For some tablet models the stand attaches to the tablet, for others it is free-standing.



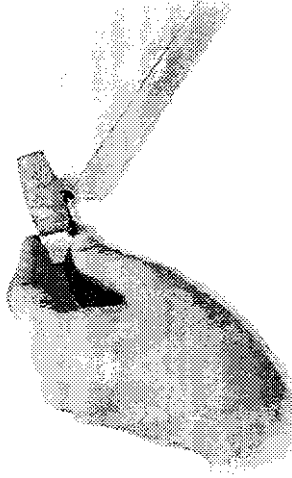
4x5 tablets: The stand is free-standing. Place it within easy reach of your tablet.



6x8 tablets: The stand can be free-standing or attached in either position, and can be used with or without the incline bar.



9x12 tablets: The stand can be free-standing or can only be attached without the incline bar.



12x12 and 12x18 tablets: You must slide the triple stand in from the left side.



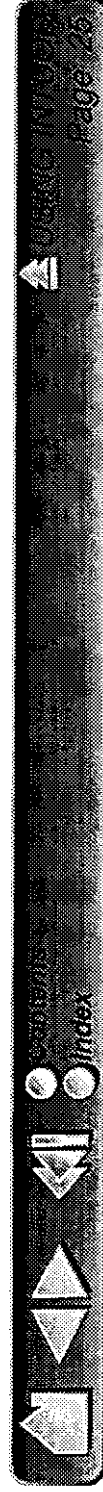
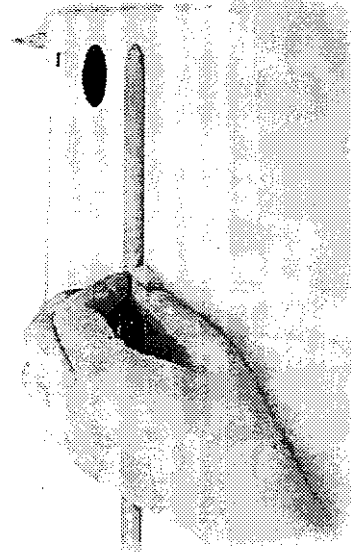
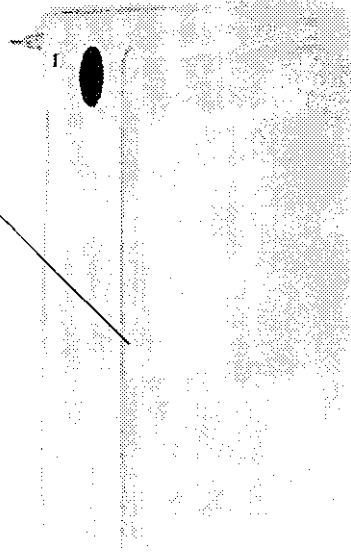
ADJUSTING TABLET INCLINE

Intuos 6x8 and 9x12 tablets come with a rubber bar that can be used to raise the tablet's incline angle. If you frequently use the tablet on your lap, you may not want to apply the incline bar. For desktop use, you may find an inclined tablet position more comfortable.

To attach the incline bar:

1. First turn the tablet upside down and locate the incline bar recess.
2. Remove the paper backing from the incline bar to expose the adhesive. Carefully press the bar's adhesive side onto the tablet recess area.
3. Return the tablet to its face up position.

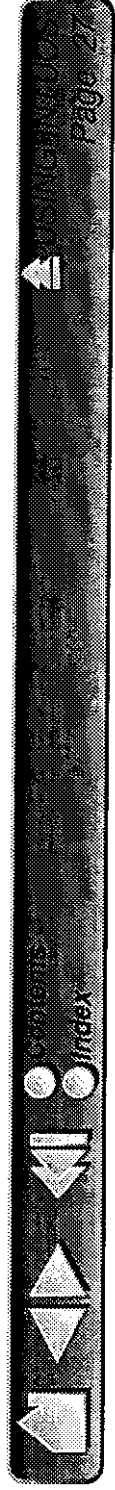
The recess is designed for use in landscape orientation.



To customize the tablet menu strip buttons, see Customizing Tablet Buttons. By default, the tablet menu strip buttons will perform common keystroke functions, such as:

Button name	Keyboard shortcut	Function
new	Ctrl+N	Open a new document
open	Ctrl+O	Open an existing document
close	Alt+F, C	Close a document
save	Ctrl+S	Save work
print	Ctrl+P	Print document
exit	Alt+F, X	Exit application
cut	Ctrl+X	Cut text or image
copy	Ctrl+C	Copy text or image
paste	Ctrl+V	Paste text or image
undo	Ctrl+Z	Undo last change
del	Del	Delete selected image or text
Mode Pen	N/A	Set tool mapping to <u>Pen Mode</u>
Mouse	N/A	Set tool mapping to <u>Mouse Mode</u>
QuickPoint	N/A	Set tool mapping to <u>QuickPoint Mode</u> (9x12 or larger tablets)
Pressure Soft	N/A	Set the tip feel for a soft setting
Med	N/A	Set the tip feel for a medium setting
Firm	N/A	Set the tip feel for a firm setting

Notes: Some applications may not support some tablet button functions, or may use different keyboard shortcuts. Mapping and pressure settings changed with a tablet button are only in effect for the current session. To permanently save these settings, open the control panel and click OK.

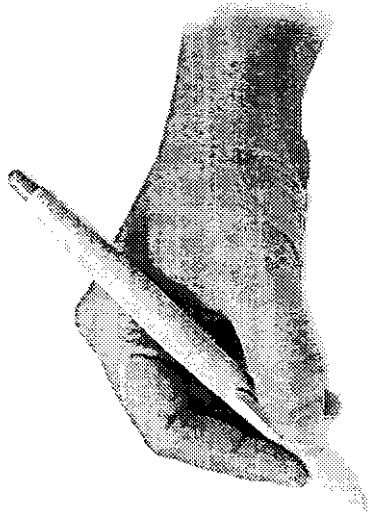


USING THE PEN

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

HOLDING THE PEN

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



Position for drawing



Position for erasing

Important: When the pen is not in use, place it in the pen stand. Leaving the pen on the tablet may interfere with screen cursor positioning when using other input devices.

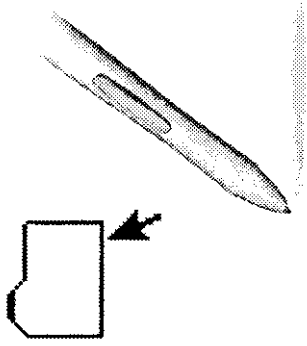


POINTING

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

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

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



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

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

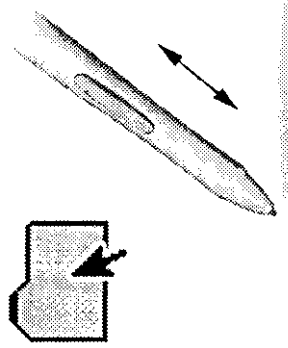
CLICKING

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

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

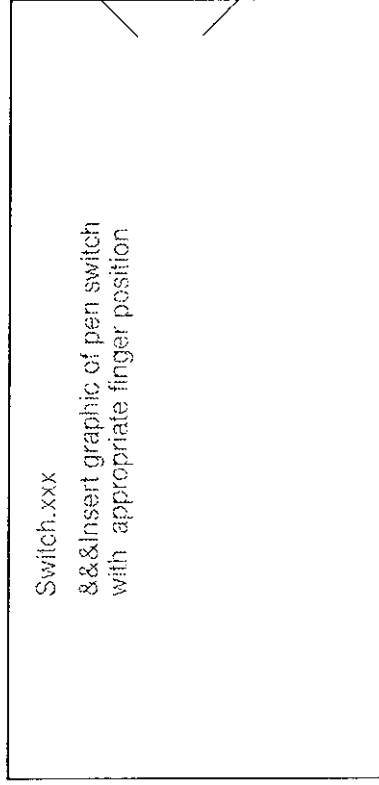
Double Clicking. To double-click, quickly tap the tablet twice in the same place with the pen tip. This is like clicking twice with a mouse button. You can also double-click by pressing the upper side switch—this is the preferred method of double-clicking with a pen.

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



USING THE SIDE SWITCH

The standard Intuos 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 in Proximity of the tablet. You do not have to touch the pen tip to the tablet in order to use the switch.



The upper switch position is set to left double-click by default.

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

For the Intuos Airbrush side switch, the default is also a right-click.

Windows Hint: Use right-click to bring up application-specific or icon-specific menus.

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

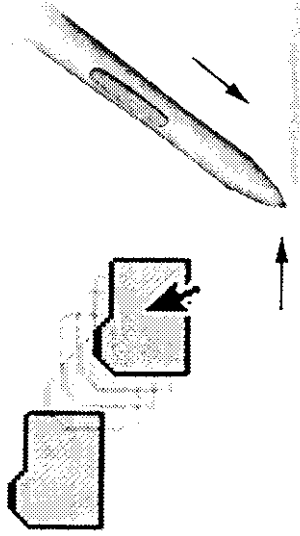
To assign new switch functions, refer to [Customizing Tool Buttons](#).



DRAGGING

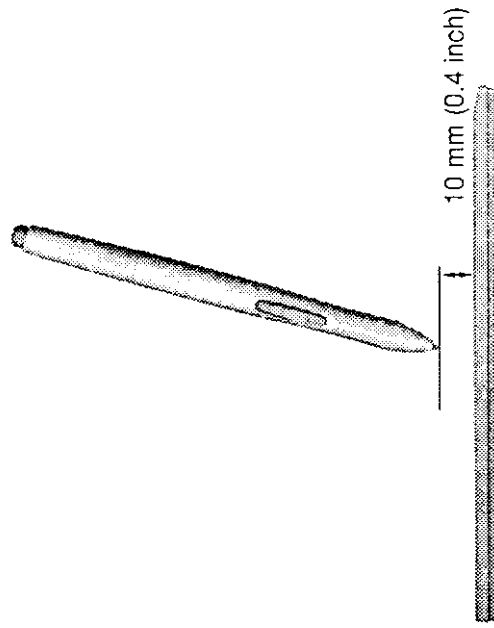
Dragging is used to select and move objects on the screen. To drag, first point to an object. Then press the Intuos Pen to the tablet and slide it across the tablet. The selected object will move across the screen. To select text, move the screen cursor to the beginning of a text line, then drag the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



PROXIMITY

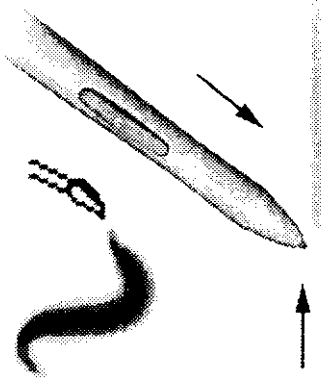
The pen is activated as soon as it enters proximity, about 10 mm (0.4 inch), above the tablet's active area. This allows you to position the screen cursor or use the side switch without touching the pen tip to the tablet. You can also trace a drawing or photograph as long as the pen tip remains within proximity height. Place a picture under the tablet overlay and try tracing it from within one of your graphics applications.



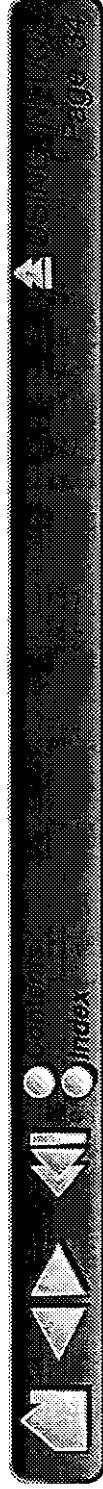
DRAWING WITH PRESSURE

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

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

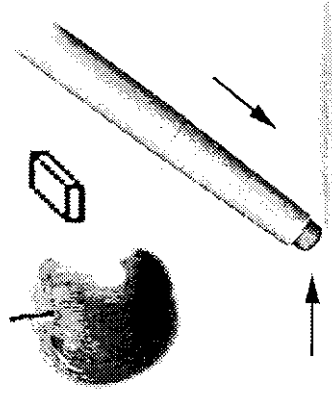


Visit our [web site](#) for a list of graphics applications that support pressure. See [Product Information](#).



ERASING

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



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

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

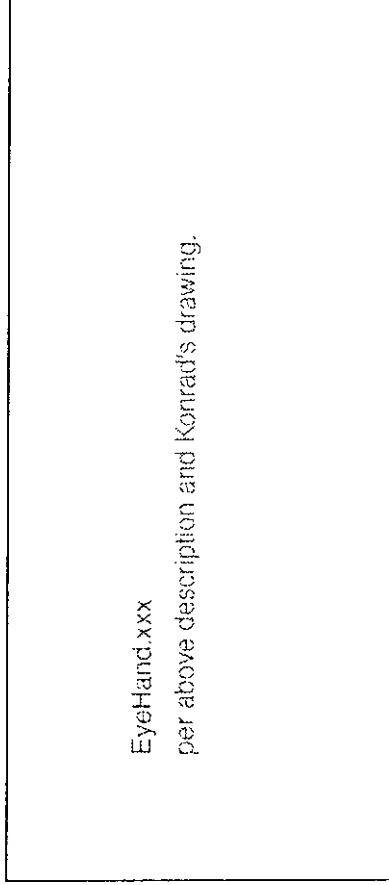


EYE-HAND COORDINATION EXERCISE

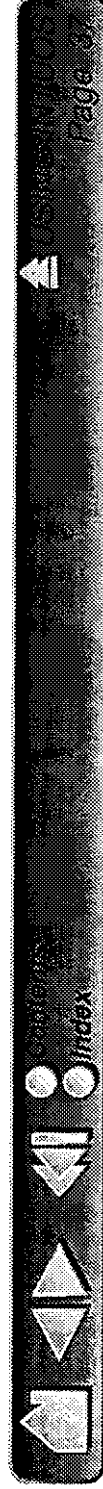
If you use a mouse, you may remember how long it took to get used to positioning the screen cursor. Your Intuos Pen, likewise, will take a bit of practice to master the technique of positioning the screen cursor in Pen Mode. This may seem difficult at first, but it is more natural and faster than in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

This exercise is designed to retrain your eye-hand coordination for using the Intuos 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 Intuos 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 Intuos Pen, the easier drawing and navigation will become. Soon, you may want to put your mouse away altogether.



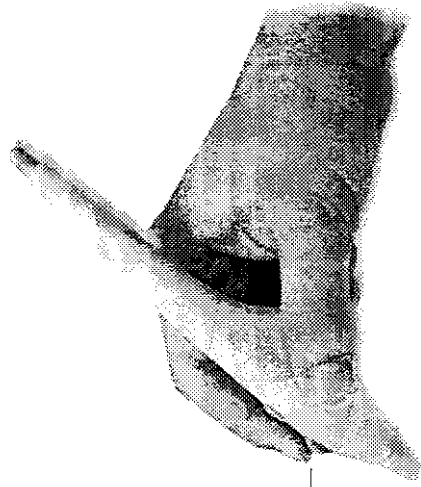
USING THE AIRBRUSH

The Intuos Airbrush has all the features of the Intuos Pen, plus a fingerwheel for an additional degree of control. With proper software support, you can simulate realistic airbrushing. For example, tilting the Intuos Airbrush can cause the spray pattern to elongate and feather out. Rolling the fingerwheel can adjust the spray intensity, and pressure on the tip can control the brush size.

Pointing, Clicking, Erasing, and Proximity work the same way as with the pen. For additional information, refer to Drawing with Pressure.

HOLDING THE AIRBRUSH

Hold the airbrush with your thumb and middle finger. The fingerwheel should be in a convenient location for you to roll it with your index finger. Tilt the airbrush to find a comfortable position that allows you to paint and draw with pressure-sensitivity.



Roll the fingerwheel backwards to increase ink flow or brush size, and forward to reduce it.

Your index finger should operate the wheel independently of the pressure you apply to the tip.

To customize the fingerwheel, see Airbrush Settings.

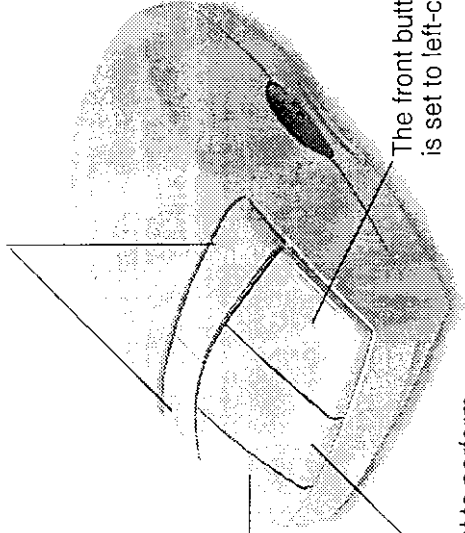
Visit Wacom's web site to learn which applications currently support the airbrush fingerwheel. See Product Information.



USING THE 4D MOUSE

The Intuos 4D Mouse is a cordless, batteryless mouse that works on any Intuos tablet. You can position and navigate the screen cursor just as you do with the Intuos Pen. By default, the thumbwheel emulates the Microsoft IntelliMouse. The 4D Mouse also supports axial rotation. In applications that support device rotation, simply turn the 4D Mouse on the tablet to control the rotation parameter.

The rear buttons are set to left double-click by default.



The front button opposite the thumbwheel is set to right-click by default.

The front button nearest the thumbwheel is set to left-click by default.

The middle button is set to perform a middle-click by default.

Move on to the next section to learn about [Setting Right- or Left-Handed Operation](#). To learn how to program buttons, see [Customizing the 4D Mouse and Lens Cursor](#).

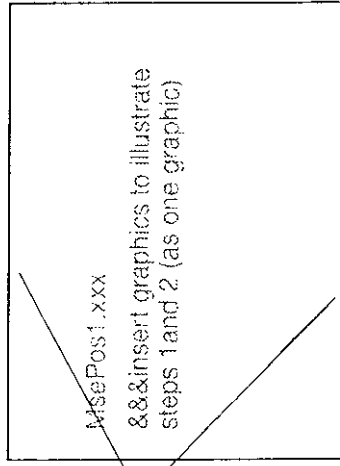
SETTING RIGHT- OR LEFT-HANDED OPERATION

The 4D Mouse can be set for either right- or left-handed use. Set the mouse so that the thumbwheel is exposed on the side next to your thumb—the button settings will automatically be reconfigured. The default setting is for the left-click button to be under your index finger. Refer to [Customizing the 4D Mouse and Lens Cursor](#).

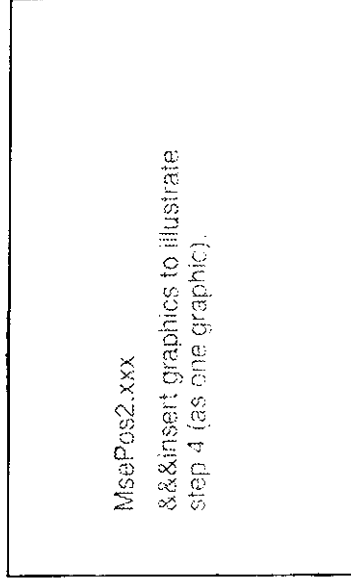
To change the handedness configuration:

- 1 Grasp the upper portion of the 4D Mouse in one hand and face the bottom portion toward you. Viewed from the bottom, a thumbwheel is visible at both sides of the body. A pair of handling edges are near the front and back.
- 2 With your other hand, grasp the lower portion of the 4D Mouse by the handling edges. Carefully pull the two halves slightly apart (about 5 mm, or 1/4 of an inch).
- 3 Rock the lower portion of the 4D Mouse to the other side so that the opposite thumbwheel is exposed.
- 4 Relax your grip, allowing the halves to pull back together until they are properly seated. When repositioned, the 4D Mouse will mirror its initial state.

Pull up.

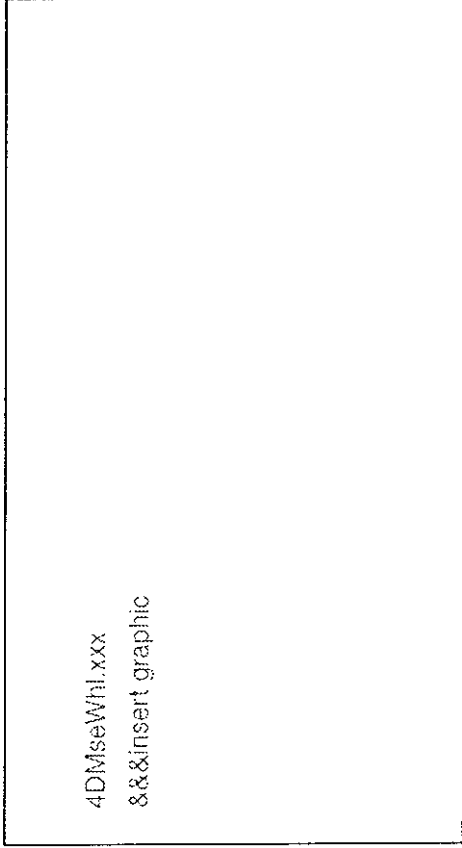


Then move over.



USING THE 4D MOUSE THUMBWHEEL

To use the thumbwheel, place your hand on the 4D Mouse with your thumb on the wheel. Press lightly on the thumbwheel and roll it forward or backward. By default, the thumbwheel emulates the roller on the Microsoft IntelliMouse; moving the thumbwheel scrolls through documents in applications that support the IntelliMouse. When you release the thumbwheel, it springs back to the neutral position, leaving the scrolled list at the position you have scrolled to.



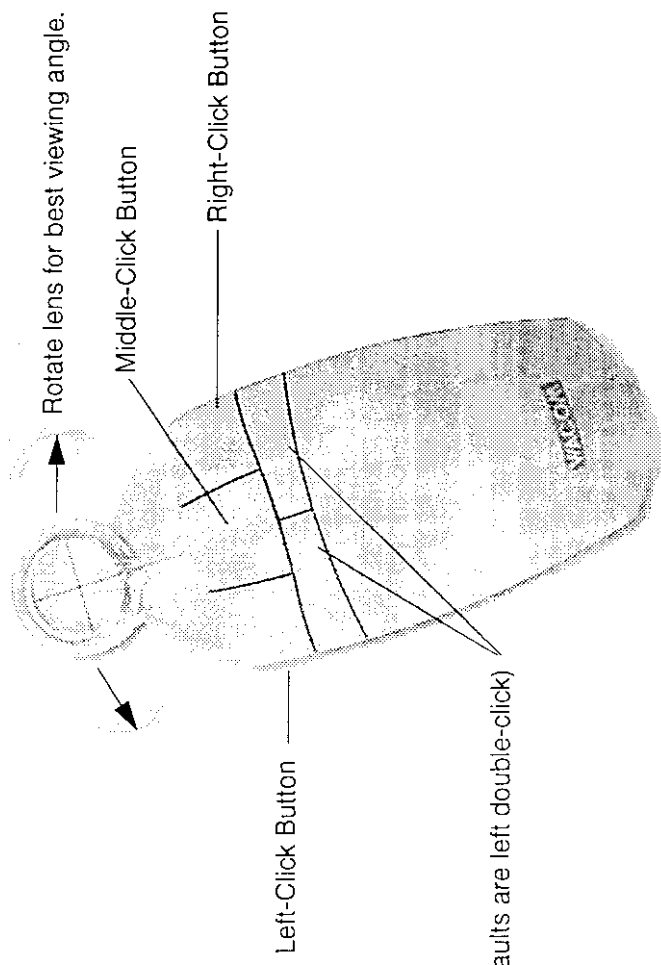
For a full description of thumbwheel features and functionality, see [Customizing the 4D Mouse Thumbwheel](#).

Visit Wacom's web site for a list of applications that currently support the 4D Mouse thumbwheel. See [Product Information](#).



USING THE LENS CURSOR

The Intuos Lens Cursor is an ergonomic input device that allows you to enter precise coordinate position information into your computer. The Lens Cursor reports the position of the cross-hair to the computer. This makes the Lens Cursor especially useful for tracing and digitizing drawings into graphics and CAD applications.



Rear Buttons (defaults are left double-click)

Refer to [Customizing the 4D Mouse and Lens Cursor](#) for information on programming the Lens Cursor buttons.



CARING FOR YOUR TOOLS AND TABLET

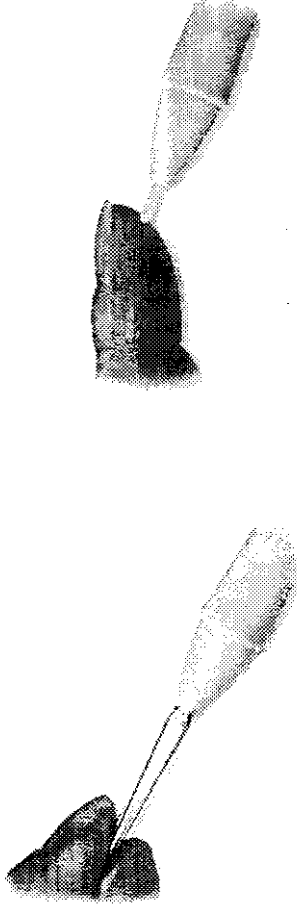
Keep your Intuos tools and tablet surface clean. Dust and dirt particles can stick to your Intuos tools and cause wear to the tablet surface. Regular cleaning with a soft, damp cloth will help prolong the life of your tablet surface and Intuos tools. You can also use a very mild soap diluted with water.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

Keep your tablet and tools in a clean, dry place and avoid extremes in temperature. Room temperature is best. Also, your Intuos 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.

REPLACING THE PEN OR AIRBRUSH TIP

The tip (nib) will wear with normal use. When the nib gets too short or develops a sharp point, you can replace it with the extra nib that came with your tool.

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

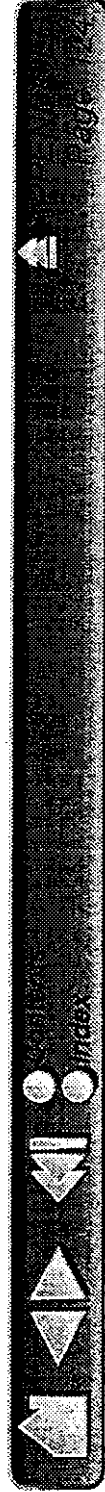


To order replacement parts, refer to [Other Parts and Accessories](#).

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS FOR ALL INTUOS TABLETS

Coordinate resolution	100 lppm (2540 lpi)
Accuracy (overall with pen)	0.25 mm (0.01 in), maximum
Tilt	+/- 60 degrees → 50
Maximum reading height with pen	10 mm (0.4 in)
Maximum report rate	200 points per second
Communication interface	RS-232C Serial
Connector	9-pin, D-sub, female
Power supply	DC 12V 200mA &&NégP/rty.TIF, see pg 72 of Aripad II manual
Power Adaptor(s)	AEC-3512-W (120V, USA), AD-3923FM-W (230V, Germany), AD-4230S-W (240V, Australia), AD-7410-W (100V, Japan), AD-7442-W (240V, UK), AD-9237-W (220V, China)
Operating temperature	5 to 40 degrees C (41 to 104 degrees F)
Storage temperature	-10 to +60 degrees C (14 to 140 degrees F)
Operating relative humidity	20% to 80% noncondensing
Storage relative humidity	20% to 90% noncondensing
Certification	FCC class B, VCCI class 2, CE (EN 50 082-1, EN 55-022 Class B)



INTUOS™ TABLET 4X5 (MODEL GD-0405-R)

Active area (W x D) 127.0 x 106.0 mm (5.0 x 4.24 in)
 Physical size (W x D x H) 225.0 x 210.0 x 7.5 mm (9.0 x 8.4 x 0.29 in)
 Cable length 2.5 m (8.2 ft)
 Weight 540 g (1.19 lb)
 Power consumption 1.2 watts

INTUOS 6X8 TABLET (MODEL GD-0608-R)

Active area (W x D) 203.2 x 162.4 mm (8.13 x 6.45 in)
 Physical size (W x D x H) 334.0 x 258.0 x 14.0 mm (13.36 x 10.32 x 0.56 in)
 Cable length 2.5 m (8.2 ft)
 Weight 880 g (1.94 lb)
 Power consumption 1.2 watts

INTUOS 9X12 TABLET (MODEL GD-0912-R)

Active area (W x D) 304.8 x 240.6 mm (12.19 x 9.62 in)
 Physical size (W x D x H) 430.0 x 338.0 x 14.0 mm (17.2 x 13.52 x 0.56 in)
 Cable length 2.5 m (8.2 ft)
 Weight 1.6 kg (3.52 lb)
 Power consumption 1.2 watts

INTUOS 12X12 TABLET (MODEL GD-1212-R)

Active area (W x D) 304.8 x 316.8 mm (12.19 x 12.67 in)
 Physical size (W x D x H) 444.0 x 435.5 x 37.0 mm (17.76 x 17.42 x 1.48 in)
 Cable length 2.5 m (8.2 ft)
 Weight 2.1 kg (4.62 lb)
 Power consumption 1.2 watts

INTUOS 12X18 TABLET (MODEL GD-1218-R)

Active area (W x D) 457.2 x 316.8 mm (18.28 x 12.67 in)
 Physical size (W x D x H) 616.0 x 445.5 x 37.0 (24.64 x 17.82 x 1.48 in)
 Cable length 2.5 m (8.2 ft)
 Weight 3.0 kg (6.6 lb)
 Power consumption 1.2 watts

INTUOS PEN (MODEL GP-300E)

Pen tip travel 0.1 mm (0.004 in) or less
 Pressure levels 1024 levels
 Eraser tip travel 1.3 mm (0.051 in), approximately
 Physical size (L x D) 151 x 12.2 mm (5.9 x 0.48 in)
 Weight 13 g (0.46 oz), approximately
 Tip refill type Polyacetal (Part No. PSI-A007)

INTUOS AIRBRUSH (MODEL GP-400E)

Fingerwheel travel	10 mm (0.39 in)
Pen tip travel	0.1 mm (0.04 in) or less
Pressure levels	1024 levels
Eraser tip travel	1.3 mm (0.05 in), approximately
Physical size (L x D)	162.5 x 32.6 mm (6.38 x 1.28 in)
Weight	24 g (0.85 oz), approximately
Tip refill type	Polyacetal (Part No. PSI-A007)

INTUOS INKING PEN (MODEL GP-110)

Pen tip travel	0.1 mm (0.04 in) or less
Pressure levels	1024 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 ink refill, blue ink refill, red

Physical size (L x D x H)

INTUOS STROKE PEN (MODEL GP-120)

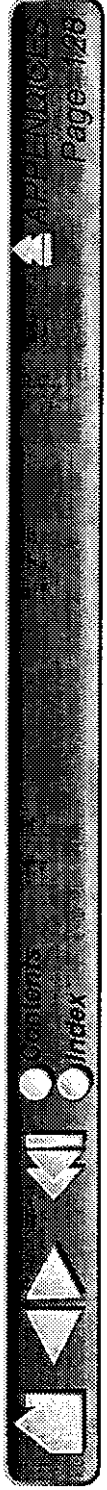
Pen tip travel 1.3 mm (0.05 in), approximately
Pressure levels 1024 levels
Physical size (L x D) 151 x 12.5 mm (5.94 x 0.49 in)
Weight 12 g (0.42 oz), approximately
Tip refill type Polyacetal (Part No. PSI-A011)

INTUOS 4D MOUSE (MODEL GC-500)

Physical size (L x D x H) 113.5 x 72.6 x 38.5 mm (4.47 x 2.86 x 1.52 in)
Weight 75 g (2.65 oz), approximately
Button stroke 1 mm (0.04 in), maximum
Thumbwheel travel +/- 10 mm (+/- 0.4 in)
Thumbwheel levels +/- 1023 levels

INTUOS LENS CURSOR (MODEL GC-210)

Physical size (L x D x H) 158.9 x 66.1 x 33.0 mm (6.29 x 2.60 x 0.79 in)
Weight 72 g (2.54 oz), approximately
Button stroke 1 mm (0.04 in), maximum



PARTS AND ACCESSORIES

Your Intuos Graphics Tablet System is a high-performance graphics tool. It provides artists and design professionals with the ultimate way to design, paint, illustrate, navigate, and edit digital media on a computer.

PENS

Intuos Pen (model GP-300E) This pressure-sensitive pen is an all-purpose tool for use in drawing, erasing, and typical mouse operations. The easy-to-use DuoSwitch gives you two programmable switch functions to simulate mouse actions or keyboard keys. The pressure-sensitive pen has an ergonomic, waisted grip area, optimum weight and balance, and superior tip sensitivity, making it the most natural freehand tool.

Intuos Inking Pen (model GP-110) This pen was created to provide immediate feedback on what you are drawing at your pen tip as well as on your computer screen. The pressure-sensitive pen comes with inking cartridges and two polyacetal tips for inkless drawing.

Intuos Stroke Pen (model GP-120) This pen was designed for the artist who requires a combination of visual and tactile feedback. The tip retracts slightly as the pen is pressed.



AIRBRUSH

Intuos Airbrush (model GP-400E) The pressure-sensitive Intuos Airbrush incorporates a pressure-sensitive tip and eraser, tilt sensitivity, and a fingerwheel that provides an additional degree of control over the application of digital paint.

4D MOUSE

Intuos4D Mouse (model GC-500) The 4D Mouse is the ultimate mouse for navigating the digital desktop. It features an ergonomic, ambidextrous design, five programmable buttons, and a self-centering thumbwheel for 3D navigation, scrolling, pan/zoom, and audio/video jog.

LENS CURSOR

Intuos Lens Cursor (model GC-210) The Lens Cursor is a precise coordinate position input tool. It is ideal for tracing and digitizing drawings, for CAD processes, or for other vector design applications where the precise input of coordinate information is critical.



OTHER PARTS AND ACCESSORIES

Description	Part Number
Menu Strip (6x8 tablet)	PSH-A149
(9x12 tablet)	PSH-A150
(12x12 tablet)	PSH-A151
(12x18 tablet)	PSH-A152
Overlay Sheet (4x5 tablet)	PSH-A144
(6x8 tablet)	PSH-A145
(9x12 tablet)	PSH-A146
(12x12 tablet)	PSH-A147
(12x18 tablet)	PSH-A148
Pen Stand (4x5, 6x8, and 9x12 tablets)	PST-A017
(12x12 and 12x18 tablets)	PST-A018
Replacement Tips	
Tips for Pen (model GP-300E) and	PSI-A007
Airbrush (model GP-400E)	
Tips for Inking Pen (model GP-110) and	PSI-A011
Stroke Pen (model GP-120)	
Inking Pen Refill (black)	Black
(blue)	Blue
(red)	Red

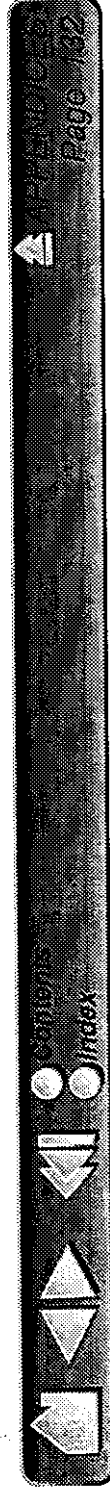


LICENSE AND WARRANTIES (USA)

SOFTWARE LICENSE

This legal document is an agreement between you, the end-user, and Wacom Technology Corporation (Wacom).

- 1. Grant of License.** The enclosed product includes computer programs embedded in firmware and accompanying diskette or CD-ROM (the "Software"). The Software is licensed, not sold, to you for use only with Wacom products upon the terms of this license, and Wacom reserves any rights not expressly granted to you. Wacom grants to you a non-exclusive right to use this copy of the Software in conjunction with a Wacom product at a single location.
- 2. Ownership of Software.** Although you may own the product in which the Software is originally recorded, Wacom retains ownership of the Software itself. You acknowledge that the Software is Wacom's property, and contains valuable confidential, unpublished information developed or acquired by Wacom at great expense, including data processing algorithms, innovations and concepts. The Software is protected by copyright and other federal and state laws. You agree to use your reasonable best efforts to protect the Software from unauthorized reproduction, distribution, disclosure, use, or publication.
- 3. Copy Restrictions.** Unauthorized copying of the Software is expressly forbidden.
- 4. Use Restrictions.** You may not decompile, reverse assemble, disassemble or reverse engineer the Software.
- 5. Termination.** This License is effective until terminated. This License will terminate automatically without notice from Wacom if you fail to comply with any provisions of the License.
- 6. Miscellaneous.** This License is governed by the laws of the United States of America and the state of California except in Asia Pacific and by the laws of Japan for Asia Pacific.



LIMITED WARRANTY

Wacom warrants the product, except for the Software, to be free from defects in materials and workmanship under normal use and service as long as the product remains in production and in possession of the original owner, but not less than one (1) year, as long as you own the product as evidenced by a copy of the receipt and a registration card that has been returned to Wacom within 30 days of purchase.

The Software is licensed "as is." Wacom makes no warranty with respect to its quality or performance. Wacom cannot guarantee you uninterrupted service or the correction of any errors.

Upon discovery of a defect in the product, except in the Software, within the Warranty Period, you should contact Wacom Technical Support via telephone to obtain an RMA (Return Merchandise Authorization) number and instructions for shipping the product to a service location designated by Wacom. You should send the product, shipping charges prepaid, to the designated service location, accompanied by the return authorization number, your name, address and telephone number, proof of purchase date, and a description of the defect. Wacom will pay for return shipping by United Parcel Service or by an equivalent service as chosen by Wacom.

Wacom's sole obligation and entire liability under this warranty shall be, at Wacom's option, either the repair or replacement of the defective product or parts thereof of which Wacom is notified during the Warranty Period; provided, however, that you are responsible for (i) the cost of transportation of the product to the designated service location and (ii) any loss or damage to the product resulting from such transportation.

Wacom shall have no responsibility to repair or replace the product if the failure of the product has resulted from accident, abuse, misuse, negligence, or unauthorized modification or repair, or if it has been handled or stored other than in accordance with Wacom's storage instructions.

Any descriptions, drawings, specifications, samples, models, bulletins, or similar material, used in connection with the sale of the product, shall not be construed as an express warranty that the product will conform or comply with your requirements.

EXCEPT FOR THE LIMITED WARRANTY DESCRIBED ABOVE, THERE ARE NO OTHER WARRANTIES MADE BY WACOM ON THIS PRODUCT. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY WACOM, ITS DEALERS, DISTRIBUTORS, AGENTS, OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY, AND YOU MAY NOT RELY ON ANY SUCH INFORMATION OR ADVICE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH VARY FROM STATE TO STATE.

WACOM LIMITS THE DURATION OF ANY LEGALLY IMPLIED WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, TO THE DURATION OF WACOM'S EXPRESS WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

NEITHER WACOM NOR ANYONE ELSE WHO HAS BEEN INVOLVED IN THE CREATION, PRODUCTION, OR DELIVERY OF THIS PRODUCT SHALL BE LIABLE FOR ANY DIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION AND THE LIKE) ARISING OUT OF THE USE OF OR INABILITY TO USE SUCH PRODUCT, EVEN IF WACOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. BECAUSE SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

In the event that any of the above limitations are held unenforceable, Wacom's liability for any damages to you or any party shall not exceed the purchase price you paid, regardless of the form of any claim.

This Limited Warranty is governed by the laws of the United States of America and the state of California.

This Limited Warranty is valid for and only applies to products purchased and used inside the United States (and its territories or possessions) and Canada.



WARRANTY ON SALES OUTSIDE OF U.S. AND CANADA

For products purchased or used outside of the United States and Canada, the warranty is one (1) year from the date of purchase, and upon discovery of a defect in the product, except in the Software, within the Warranty Period you should notify your local dealer or distributor. In all other respects the terms of the warranty as set forth above apply to such sales.

Should you have any questions about this Agreement, or if you desire to contact Wacom for any reason, please contact in writing:

In North and South America contact:

Wacom Technology Corporation
1311 S.E. Cardinal Court
Vancouver, Washington 98683
U.S.A.

In Asia and Asia Pacific contact:

WACOM Co., Ltd.
2-510-1 Toyonodai
Otone-Machi, Kitasaitama-Gun
Saitama, 349-11
Japan

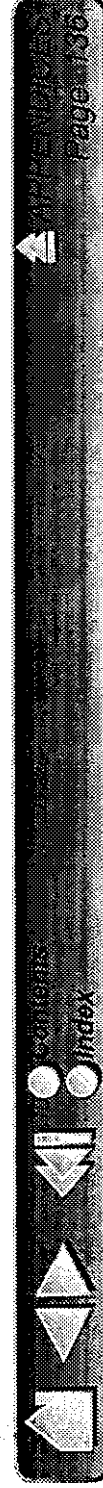


LICENSE AND WARRANTIES (EUROPE)

SOFTWARE LICENSE

This legal document is an agreement between you, the end-user, and Wacom Computer Systems GmbH ("Wacom").

- 1. Grant of License.** The enclosed product includes a computer program embedded in firmware and accompanying diskette or CD-ROM (the "Software"). The Software is licensed to you for use only upon the terms of this license, and Wacom reserves any rights not expressly granted to you. Wacom grants to you a non-exclusive right to use this copy of the Software in conjunction with a single product at a single location.
- 2. Ownership of Software.** Although you may own the product on which the Software is originally recorded, Wacom retains ownership of the Software itself. You acknowledge that the Software is Wacom's property, and contains valuable confidential, unpublished information developed or acquired by Wacom at great expense, including data processing algorithms, innovations and concepts. The Software is protected by copyright and other national and international laws. You agree to use your reasonable best efforts to protect the Software from unauthorized reproduction, distribution, disclosure, use or publication.
- 3. Copy Restrictions.** You may either make a single copy of the Software solely for backup or archival purposes, or transfer the Software to a single hard disk provided you keep the original solely for backup or archival purposes. Any unauthorized copying of the Software is expressly forbidden. All Wacom manuals and documentation may not, in whole or in part, be distributed, copied, translated or otherwise reproduced in any form (including electronic forms).
- 4. Use Restrictions.** You may not alter, adapt, translate, decompile, reverse assemble, disassemble or reverse engineer the Software.
- 5. Miscellaneous.** This License is governed by the laws of the Federal Republic of Germany.



LIMITED WARRANTY AND LIABILITY

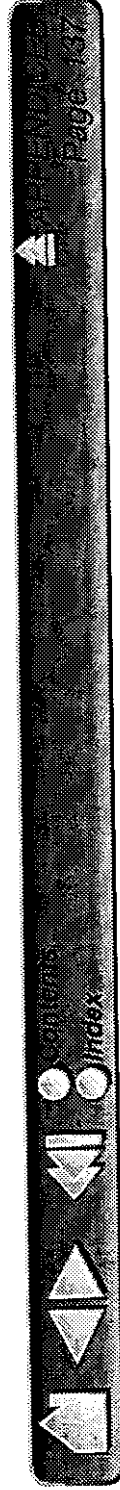
Wacom warrants to you as the original end-user that the product hardware is free from defects in materials and workmanship under normal use and service for a period of TWO (2) YEARS after the date of purchase, provided that they are unused at the time of such purchase. Wacom further warrants to you the accompanying diskettes against defects in materials and workmanship for a period of SIX (6) MONTHS after the date of purchase.

The Software is licensed and distributed "AS IS". Wacom makes no warranties, expressed or implied, with respect to its quality, performance, merchantability and fitness for a particular purpose (including related manuals and documentation). Wacom cannot guarantee you uninterrupted service or the correction of any errors.

Upon discovery of a defect in the product, except in the Software, within the applicable Warranty Period, you should return them in the original packaging to the place of your original purchase, together with your name, address, telephone number, a description of the problem and a copy of the original invoice. You are responsible for any loss or damage to the product resulting from such transportation. Wacom's sole obligation and entire liability under this warranty shall be, at Wacom's option, either the repair or replacement of the defective product or parts thereof that prove defective and that were returned within the applicable Warranty Period.

Wacom shall have no responsibility to repair or replace the product if (a), in the opinion of Wacom, the failure of the product has resulted from accident, abuse, misuse, negligence, misapplication, or unauthorized modification or repair, or (b) the product has been handled or stored other than in accordance with Wacom's storage instructions, or (c) the failure is due to normal wear and tear, or (d) you fail to fulfill your obligations as described above. In case that any claim presented under warranty is found upon investigation to be either outside the duration or the scope of this warranty, or in case that the product is found to be not defective, then the cost of such investigation and repair shall be borne by you.

Any descriptions, drawings, specifications, samples, models, bulletins, or similar material, used in connection with the sale of the product, shall not be construed as an express warranty that the product will conform or comply with your requirements.



EXCEPT FOR THE LIMITED WARRANTY DESCRIBED ABOVE THERE ARE NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE MADE BY WACOM ON THIS PRODUCT. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY WACOM'S DEALERS, DISTRIBUTORS, AGENTS OR EMPLOYEES MAY ALTER OR INCREASE THE SCOPE OF THIS WARRANTY IN ANY WAY. WACOM WILL NOT SUPPORT ANY SUCH EXTENSION OF THIS WARRANTY BY THE ABOVE PERSONS OR THIRD PARTIES.

NEITHER WACOM NOR ANYONE ELSE WHO HAS BEEN INVOLVED IN THE CREATION, PRODUCTION, OR DELIVERY OF THIS PRODUCT SHALL BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, OR INCIDENTAL DAMAGES (INCLUDING DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION AND THE LIKE) ARISING OUT OF THE USE OF OR INABILITY TO USE SUCH PRODUCT, EVEN IF WACOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

In the event that any of the above limitations are held unenforceable, Wacom's aggregate liability for any damages to you or any party shall not exceed the purchase price of the defective, damaged or undelivered product as determined by the net invoiced price, regardless of the form of any claim. Claims must be reported to Wacom in writing within no more than (1) month after the damage occurred. Upon failure to do so, any claims to the payment of damages will be void. Reseller indemnifies Wacom from any claims by third parties for damages resulting from or connected to resellers' fault.

The rights and limitations set forth in this statement do not limit or exclude certain statutory rights that may be applicable in the country of your purchase. If any of the provisions of this statement are declared void, such provisions shall be considered separate from this statement and the statement shall otherwise remain in full force and effect.

This Limited Warranty and Liability is governed by the laws of the Federal Republic of Germany.

Should you have any questions about this Agreement, or if you desire to contact Wacom for any reason, please contact in writing:

WACOM COMPUTER SYSTEMS GMBH
HELLERSBERGSTRASSE 4
D-41460 NEUSS
GERMANY

