

intuos

User's Manual for Macintosh

Wacom Operations

Wacom Reference

Index



WACOM

Wacom Intuos™ User's Manual for Macintosh®, March 27, 1998
English V1.0 for Macintosh
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. Apple, the Apple logo, and Macintosh are registered trademarks and Apple Desktop Bus is a trademark of Apple Computer, Inc. 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.

Adobe Reader is a registered trademark of Adobe Systems Incorporated.

Copyright © 1998 Wacom Company, Limited

This manual may be reproduced or translated in whole or in part for personal or internal use, without charge, provided that the copyright notice and the name of the publisher are included in the reproduction. Wacom reserves the right to discontinue or alter specifications without prior notice and without obligation to include changes in this manual.

Wacom Company, Limited
1-1-1, Higashi-Azabu 1-chome, Minato-ku, Tokyo 106, Japan
Tel: 03-438-7111, Fax: 03-438-7112
E-mail: info@wacom.co.jp



Wacom

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-A, GD-0608-A, GD-0912-A, GD-1212-R, and GD-1218-R, have been tested by the WAVE Corporation in Japan (an accredited EMC laboratory) and found to comply to the following harmonized European Norms:

- EN 50082-1 (electromagnetic immunity)
- EN 55022 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 50082-1 (electromagnetic immunity)
- EN 55104 (electromagnetic immunity)
- EN 50081-1 (electromagnetic emissions)
- EN 55014 (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.



Trademarks	2	Using the Pen	28
Radio and Television Interference	3	Holding the Pen	28
FCC Notice	3	Pointing	29
CE Declaration	4	Clicking	30
About the Manual	8	Using the Side Switch	31
Navigating the Manual	10	Dragging	32
INSTALLATION	11	Proximity	33
ADB Tablet Installation	12	Drawing with Pressure	34
Serial Tablet Installation	13	Drawing with Tilt	35
Software Installation	14	Erasing	36
Uninstalling the Software	15	Eye-Hand Coordination Exercise	37
Registration	15	Using the Airbrush	38
Product Information	15	Holding the Airbrush	38
USING INTUOS	16	Using the 4D Mouse	39
Appearance and Features	17	Setting Right- or Left-Handed Operation	40
Intuos 4x5 Tablet	17	Using the 4D Mouse Thumbwheel	41
Intuos 6x8 and 9x12 Tablets	18	Using the Lens Cursor	42
Intuos 12x12 and 12x18 Tablets	19	Caring for Your Tools and Tablet	43
Intuos Tools	20	Replacing the Pen or Airbrush Tip	44
Setting Up Your Work Area	23	CUSTOMIZING	45
Working with the Tablet	24	Opening the Control Panel	46
Adjusting the Pen Stand	24	Control Panel Features	47
Adjusting Tablet Incline	25	Tabs	48
Using The Tablet Menu Strip	26	Control Panel Lists	50
		Control Panel Buttons	51



Customizing Your Tools	52	Working with Application-Specific Settings	83
Pen and Airbrush Tabs	52	Creating an Application-Specific Setting	85
4D Mouse and Lens Cursor Tabs	52	Adding Additional Tools to an Application's Tool List	87
Adjusting Tip Feel	53	Changing Settings for a Specific Application and Tool	88
Adjusting Double-Click	54	Removing Application-Specific Settings	88
Customizing Tool Buttons	55	Checking Your Tablet Connection	89
Button Functions	56	Pull-Down Menus	90
Airbrush Settings	60	File	90
Adjusting Eraser Feel	61	Edit	90
Customizing Tilt Sensitivity	62	Add	91
Tablet to Screen Mapping	63	Remove	91
Positioning Mode	64	Language	92
Orientation	65	Help	92
Aspect	66	ADVANCED FEATURES	93
Tablet Area	67	Advanced Tip Pressure Settings	94
Display Area	70	Click Force Adjustment	95
Customizing the 4D Mouse and Lens Cursor	71	Pressure Curve Adjustment	96
Programming the 4D Mouse and Lens Cursor	72	Advanced Eraser Pressure Settings	98
Using Your 4D Mouse as a 15-Button Mouse	72	Copying Settings	99
Creating a Button Box	74	Using DualTrack	100
Customizing the 4D Mouse Thumbwheel	75	Advanced Mapping	101
Customizing the Pop-up Menu	76	HAVING TROUBLE?	105
Add Macros	77	Testing Your Intuos Tablet	106
Add Keystrokes	77	Testing an ADB Tablet	106
Add Mapping Options	77	Testing Serial Tablets	107
Removing Pop-up Menu Options	77	Testing the Software	108
Customizing Tablet Buttons	78	Testing Your Intuos Tools	111
Working with Multiple Tools	80	Testing a Pen or Airbrush	111
Adding a New Tool	81	Testing a 4D Mouse or Lens Cursor	113
Using More Than One Tool	82		



Troubleshooting	114	Intuos Inking Pen (Model GP-110)	133
General Problems	114	Intuos Stroke Pen (Model GP-120)	134
Application-Specific Problems	119	Intuos 4D Mouse (Model GC-500)	134
Contacting Technical Support	120	Intuos Lens Cursor (Model GC-210)	134
Linking to the Web Page	120	Parts and Accessories	135
Pre-Contact Checklist	120	Pens	135
Who to Call	121	Airbrush	136
USA, Canada, Central and South America	122	4D Mouse	136
Europe, Middle East and Africa	123	Lens Cursor	136
Japan	124	Other Parts and Accessories	137
Asia Pacific (English)	124	License and Warranties (USA)	138
Europe, Middle East and Africa	125	Software License	138
Japan	126	Limited Warranty	139
Asia Pacific (English)	126	Warranty on Sales Outside of U.S. and Canada	141
USA, Canada, Central and South America	127	License and Warranties (Europe)	142
APPENDICES	128	Software License	142
Installing Multiple Tablets	129	Limited Warranty and Liability	143
Product Specifications	130	GLOSSARY	145
General Specifications for All Intuos Tablets	130	INDEX	149
Intuos Tablet 4x5 (Model GD-0405-A)	131		
Intuos 6x8 Tablet (Model GD-0608-A)	131		
Intuos 9x12 Tablet (Model GD-0912-A)	131		
Intuos 12x12 Tablet (Model GD-1212-R)	132		
Intuos 12x18 Tablet (Model GD-1218-R)	132		
Intuos Pen (Model GP-300E)	132		
Intuos Airbrush (Model GP-400E)	133		



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. You can also install the manual by performing a custom installation.

- 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. 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.
-  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.

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



Intuos is compatible with Macintosh II and Power Macintosh (or greater) systems using Mac OS 7.0 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. First connect the hardware, then install the software.

ADB TABLET INSTALLATION

SERIAL TABLET INSTALLATION

SOFTWARE INSTALLATION

UNINSTALLING THE SOFTWARE

REGISTRATION

PRODUCT INFORMATION



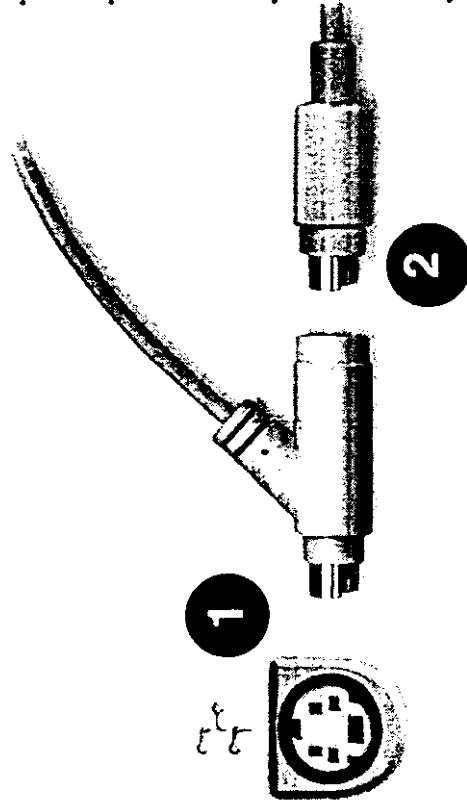
ADB TABLET INSTALLATION

To install your Intuos 4x5, 6x8, or 9x12 tablet:

- Turn off your computer.
- Plug the tablet connector into your computer's ADB communication port. See **1**

Or...

- If you do not have an available ADB port, connect the keyboard to the tablet cable pass-thru connector. Then connect the tablet cable to the computer. See **2**



- Turn on your computer. The tablet LED will light

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



SOFTWARE INSTALLATION

Make sure the tablet is properly connected, then turn on your computer. The status LED on your tablet should light to indicate the tablet is powered up. (If you have a 12x12 or larger tablet, remember to turn on the power switch.)

Important: Temporarily disable any virus protection programs before installing the software.

To install your Intuos software:

1. Insert the Intuos CD-ROM into your computer.
2. Double-click on the INSTALL icon and follow the prompts.
3. When finished, click OK. After installing the software, you should be able to place your Intuos Pen on the tablet to move the screen cursor.

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

Each time you start your computer, the Wacom Tablet startup icon tells you if the tablet driver has successfully loaded.



The driver is loading.



The driver has loaded successfully.



The driver did not load.



UNINSTALLING THE SOFTWARE

To remove the Intuos software from your system:

1. Insert the Intuos CD-ROM into your computer and double-click on the INSTALL icon.
2. Select CUSTOM REMOVE instead of EASY INSTALL and click the REMOVE button.

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

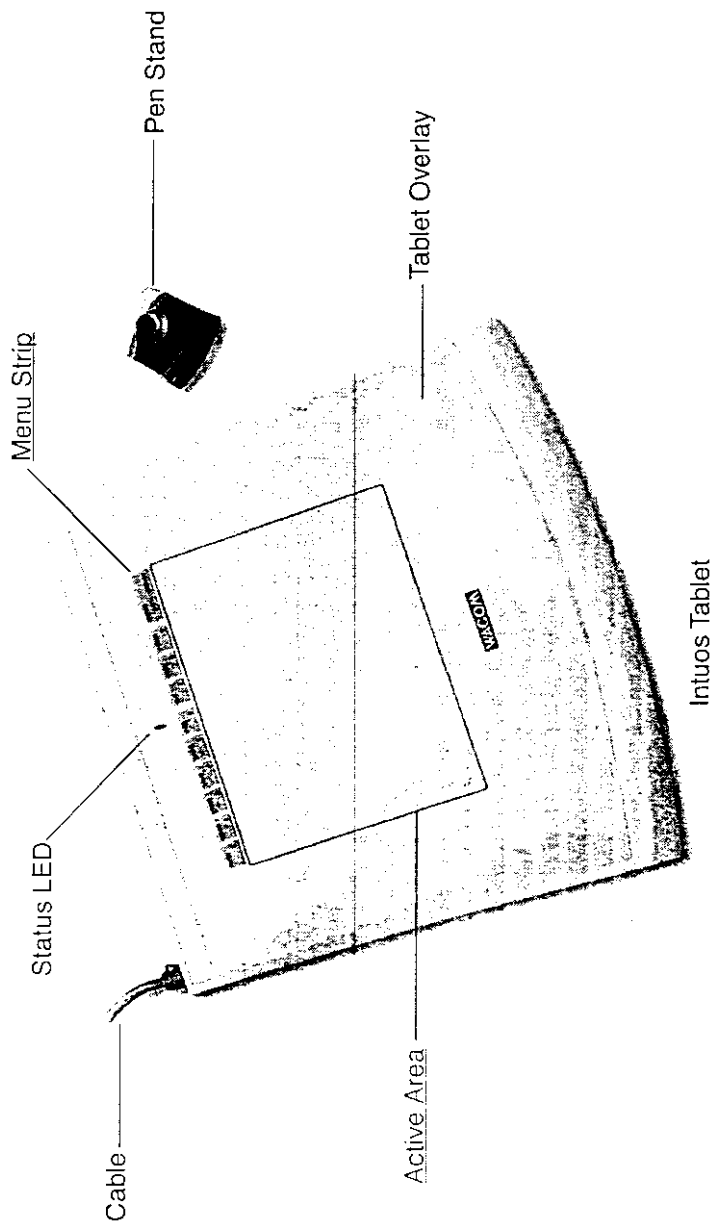
CARING FOR YOUR TOOLS AND TABLET



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.

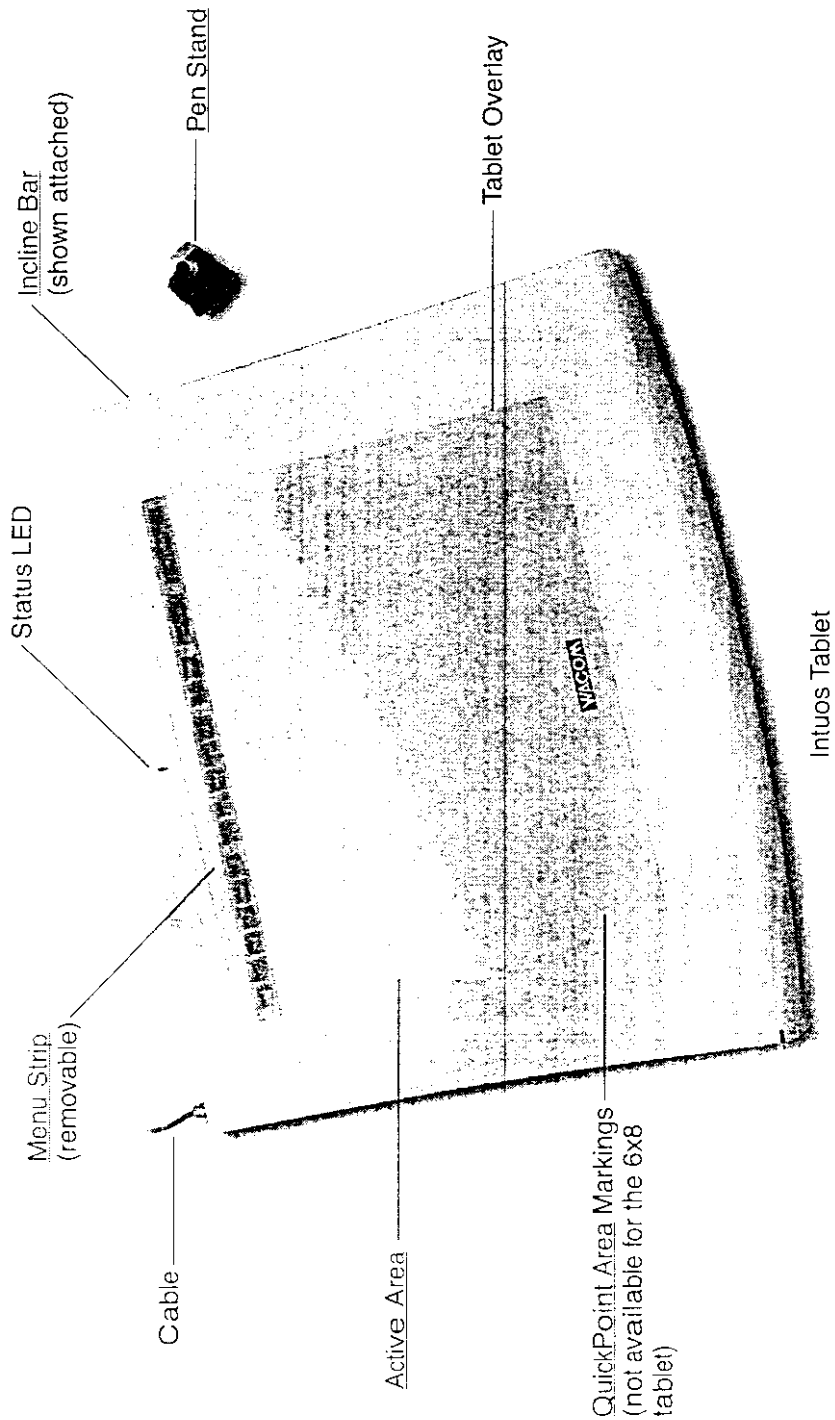
INTUOS 4X5 TABLET



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](#).



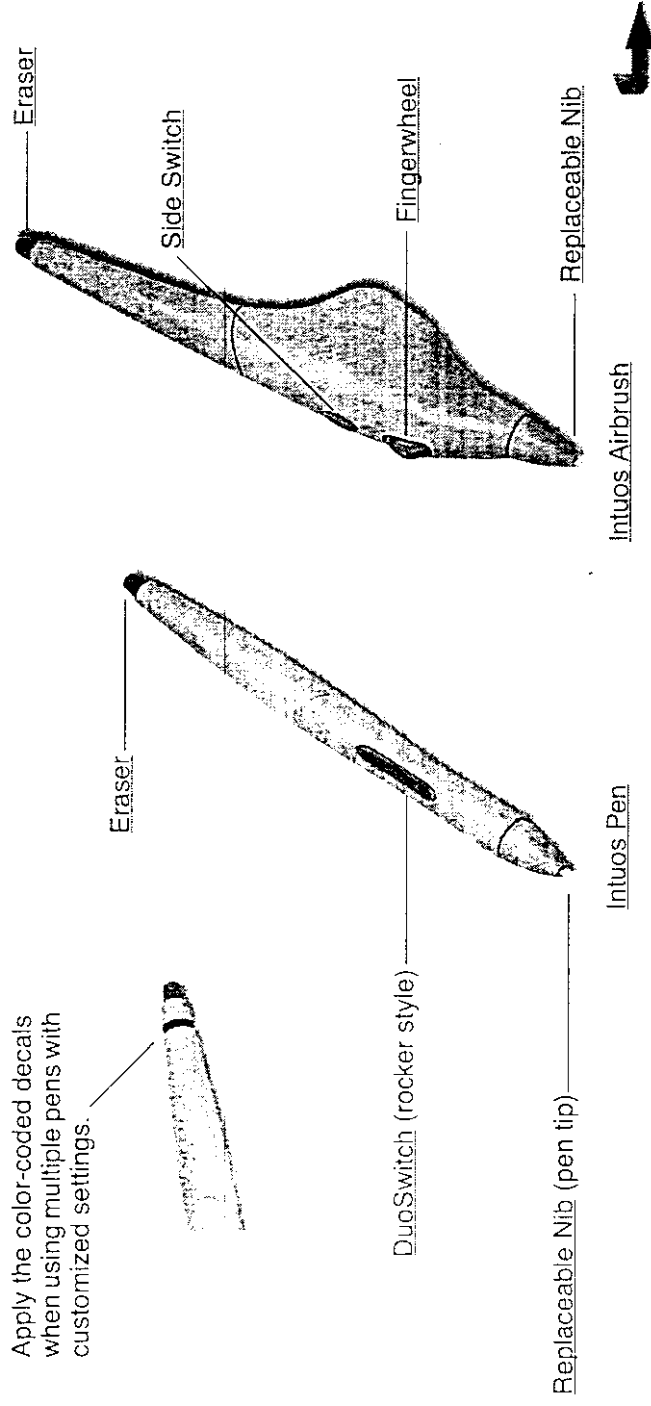
INTUOS TOOLS

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.

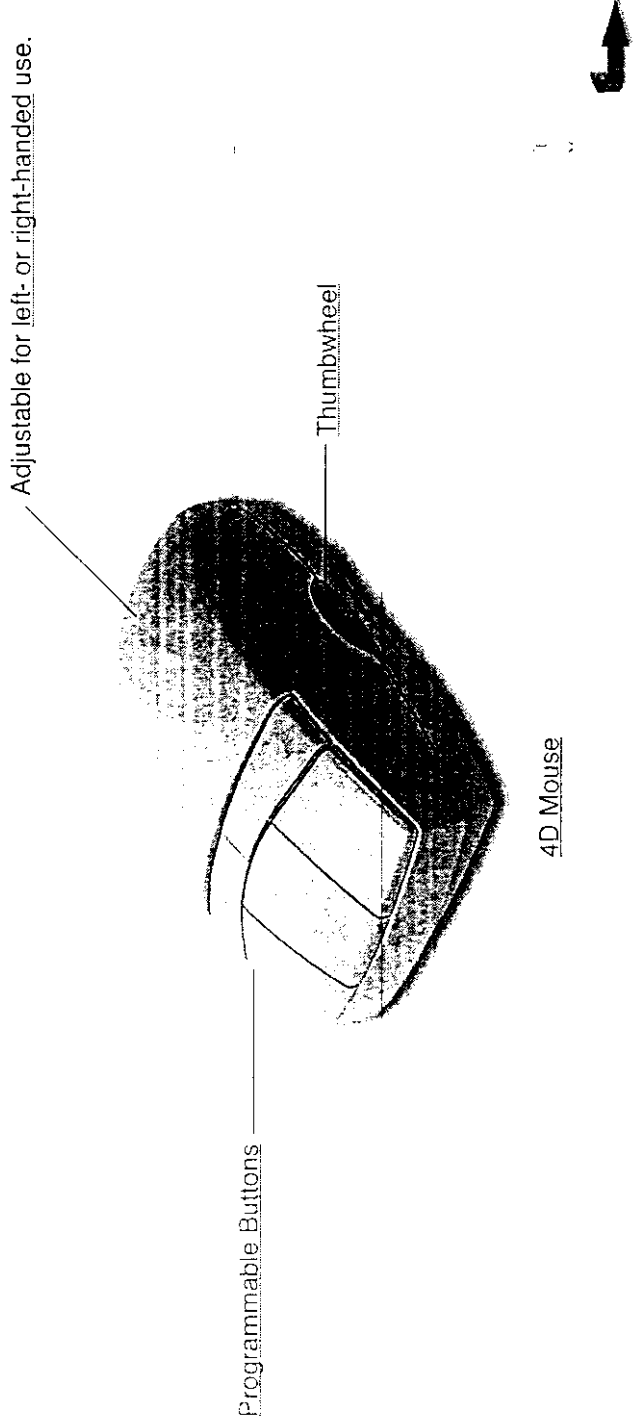
Note: The tool(s) included with your tablet will vary depending on which tablet model and configuration you purchased.

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

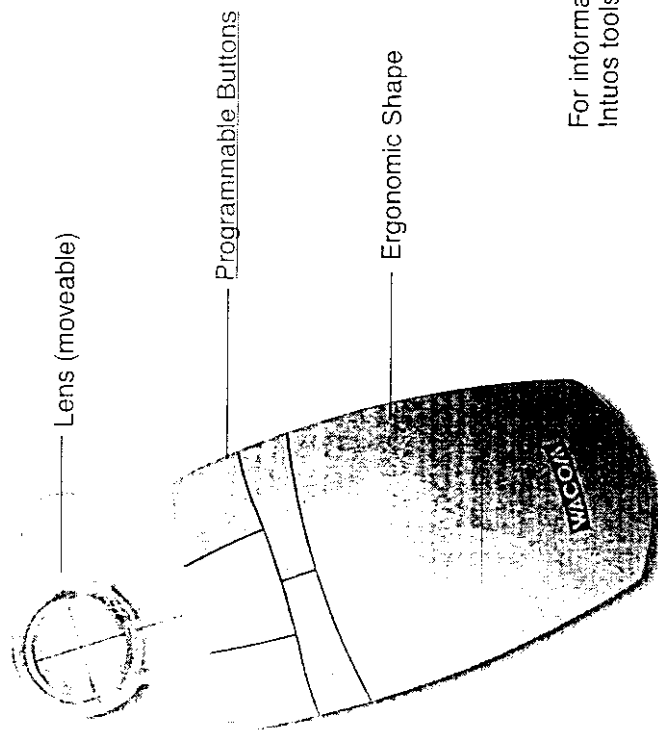
Apply the color-coded decals when using multiple pens with customized settings.



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 used for application-specific tasks in supporting applications.



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



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

Lens Cursor



SETTING UP YOUR WORK AREA

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



To minimize fatigue:

- Take short breaks between tasks to stretch and relax your muscles.
- Use a gentle grip when working with your 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.



PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS FOR ALL INTUOS TABLETS

Coordinate resolution	100 lpm (2540 lpi)
Accuracy (pen)	+/- 0.25 mm (+/- 0.01 in)
Accuracy (Lens Cursor)	+/- 0.15 mm (+/- 0.006 in), +/- 0.25 mm (+/- 0.01 in) on Intuos 4x5, 6x8, and 9x12 tablets
Tilt	+/- 60 degrees, +/- 50 degrees for Intuos 4x5 tablets
Maximum reading height with pen	10 mm (0.4 in)
Maximum report rate	200 points per second
Communication interface	Apple Desktop Bus (ADB) (for 4x5, 6x8, and 9x12 tablets) Serial (for 12x12 and larger tablets)
Connector	4 pin, mini-circular DIN (4x5, 6x8, and 9x12 tablets) 9-pin, D-sub, female (12x12 and larger tablets)
Power requirements (4x5, 6x8, and 9x12 tablets)	&&NEEDS VERIFICATION DC 5V 100mA, from ADB port
Power supply (12x12 and larger tablets)	DC 12V 200mA
Power Adaptor(s) (12x12 and larger tablets)	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 50082-1, EN 55022 Class B, EN 55104, EN 50081-1, EN 55014, EN 60742)



INTUOS TABLET 4X5 (MODEL GD-0405-A)

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-A)

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-A)

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 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

