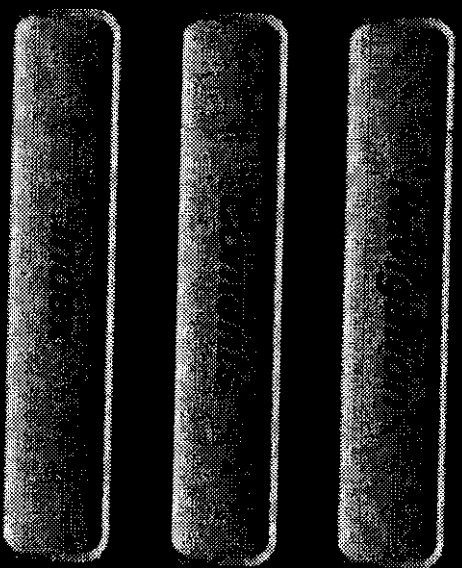


intuos™

USER'S MANUAL FOR MACINTOSH®

WACOM



Wacom Intuos™ User's Manual for Macintosh®, March 25, 1999
English V2.0 for MacintoshEuropean English V2.0 for Macintosh
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Contents

Index

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.

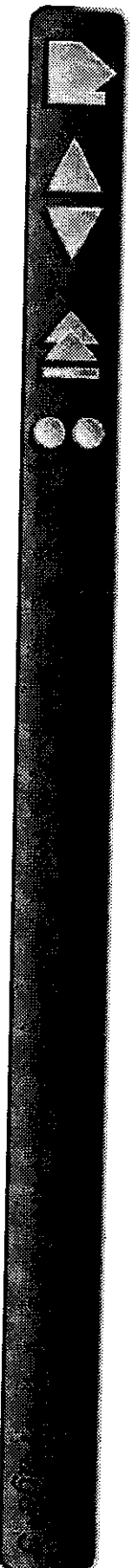
You can determine whether your tablet is causing interference by disconnecting it from the computer. If the interference stops, it was probably caused by the tablet.

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, GD-1218-R, GD-1218-U, GD-0405-U, GD-0608-U, GD-0912-U, GD-1212-U, and GD-1218-U~~ have been tested by ~~the WAVE Corporation~~ in Japan and found to comply to the following harmonized European Norms:

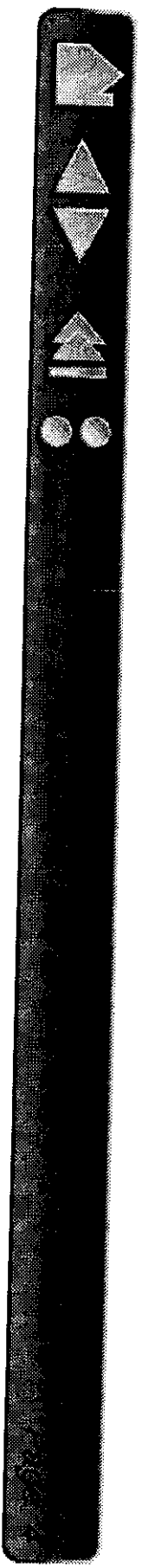
- EN 50082-1 (electromagnetic immunity)
- EN 55022 Class B (electromagnetic emissions)

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

- EN 50082-1 or EN 55104 (electromagnetic immunity)
- EN 50081-1 or 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

Radio and Television Interference

FCC Notice

CE Declaration

About the Manual

Navigating the Manual

INSTALLATION

ADB Tablet Installation

Serial Tablet Installation

USB Tablet Installation

iMac Requirements

Uninstalling the Software

Registration

Product Information

USING INTUOS

Appearance and Features

Intuos 4x5A6 Tablet

Intuos 6x8A5 and 9x12A4 Regular Tablets

Intuos 12x12A4 Oversize and 12x18A3 Tablets

Intuos Tools

Setting Up Your Work Area

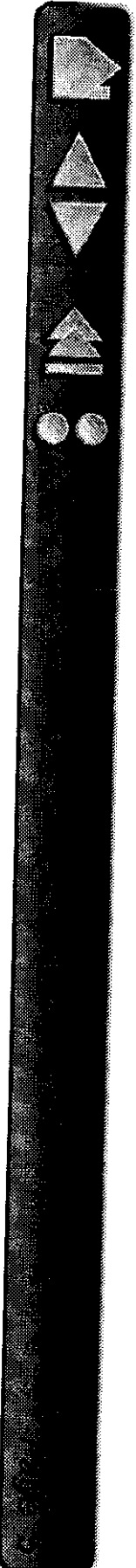
Working with the Tablet

Adjusting the Pen Stand

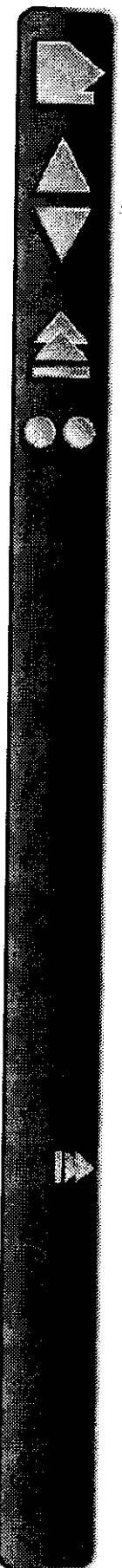
Adjusting Tablet Incline

Using the Tablet Menu Strip

2	<u>Using the Pen</u>	29
3	<u>Holding the Pen</u>	29
3	<u>Pointing</u>	30
3	<u>Clicking</u>	31
4	<u>Using the Side Switch</u>	32
8	<u>Dragging</u>	38
10	<u>Proximity</u>	34
11	<u>Drawing with Pressure</u>	35
12	<u>Drawing with Tilt</u>	35
13	<u>Erasing</u>	36
14	<u>Eye-Hand Coordination Exercise</u>	37
15	<u>Using the Airbrush</u>	38
16	<u>Holding the Airbrush</u>	39
16	<u>Using the 4D Mouse</u>	40
16	<u>Setting Right- or Left-Handed Operation</u>	41
17	<u>Using the 4D Mouse Thumbwheel</u>	42
18	<u>Using the Lens Cursor</u>	43
18	<u>Caring for Your Tools and Tablet</u>	44
19	<u>Replacing the Pen or Airbrush Tip</u>	45
20	CUSTOMIZING	46
21	<u>Opening the Control Panel</u>	47
24	<u>Control Panel Features</u>	48
25	<u>Control Panel Lists</u>	49
25	<u>Control Panel Buttons</u>	50
26		52
27		59



Resolving Software Conflicts	117	Intuos 9x12A4 Regular Tablet (Models GD-0912-A, GD-0912-U)	145
Using the Extensions Manager	117	Intuos 12x12A4 Oversize Tablet (Models GD-1212-R, GD-1212-U)	145
Manually Resolving a Conflict	118	Intuos 12x18A3 Tablet (Models GD-1218-R, GD-1218-U)	145
Testing Your Intuos Tools	121	Intuos Pen (Model GP-300E)	145
Testing a Pen or Airbrush	121	Intuos Airbrush (Model GP-400E)	146
Testing a 4D Mouse or Lens Cursor	123	Intuos Inking Pen (Model GP-110)	146
Troubleshooting Tables	124	Intuos Stroke Pen (Model GP-120)	147
ADB Tablet Problems	124	Intuos 4D Mouse (Model GC-500)	147
Serial Tablet Problems	125	Intuos Lens Cursor (Model GC-210)	147
USB Tablet Problems	125	Parts and Accessories	148
General Problems	127	Ordering Parts and Accessories	148
Contacting Technical Support	128	Pens	148
Linking to the Web Page	133	Airbrush	148
Pre-Contact Checklist	133	4D Mouse	149
Who to Call	134	Lens Cursor	149
USA, Canada, Central and South America	135	Other Parts and Accessories	150
Europe, Middle East and Africa	136	License and Warranties	151
Japan	137	Software License	151
Asia Pacific (English)	137	Limited Warranty	152
Europe, Middle East and Africa	138	Warranty on Sales Outside of U.S. and Canada	154
USA, Canada, Central and South America	139	License and Warranties	155
Japan	140	Software License Agreement	155
Asia Pacific (English)	140	Limited Warranty and Liability	156
APPENDICES	141	Liability of WACOM	157
Installing Multiple Tablets	142	GLOSSARY	158
Product Specifications	143	INDEX	162
General Specifications for All Intuos Tablets	143		
Intuos 4x5A6 Tablet (Models GD-0405-A, GD-0405-U)	144		
Intuos 6x8A5 Tablet (Models GD-0608-A, GD-0608-U)	144		

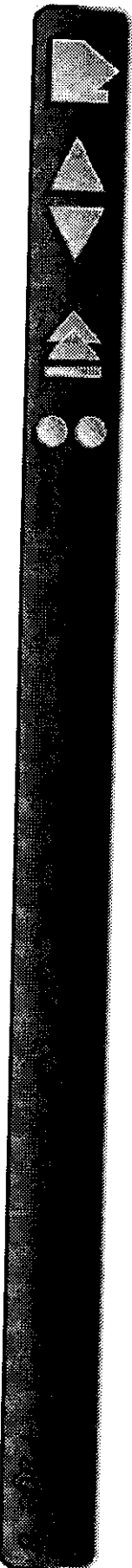


ABOUT THE MANUAL

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. The information is common to all tablet types (ADB, serial, and USB), unless otherwise noted.

- 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.

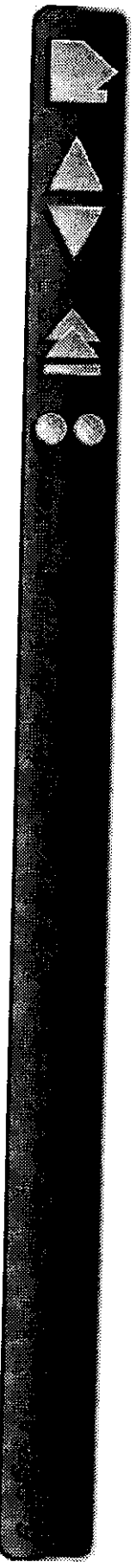
As you read through the *Customizing* and *Advanced Features* chapters, you will notice that the screen shots of the control panel tabs do not show the tab buttons. These are intentionally left out in order to save space within the manual.

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.



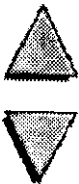
Go to Table of Contents.



Go to Index.



Go back to previous view.



Page back, or page forward.



HEADING TEXT Go to beginning of section.

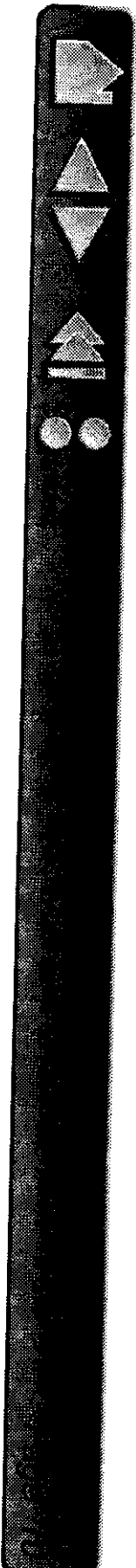
Topic

Go to topic.



Topic continued.

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





Intuos ADB and serial tablets are compatible with Macintosh systems using Mac OS 7.0 or later, and with all applications that support a mouse.

USB tablets are compatible with any Power Macintosh equipped with a USB port, and with all applications that support a mouse. For the iMac, you will need Mac OS 8.5 or greater, Mac OS ROM 1.2.1 or greater, and iMac Update 1.1.

The Wacom control panel requires a 640 x 480 or larger color monitor for proper display.

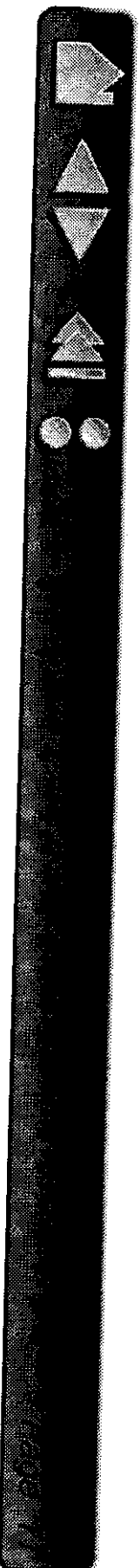
ADB TABLET INSTALLATION

SERIAL TABLET INSTALLATION

USB TABLET INSTALLATION

UNINSTALLING THE SOFTWARE

REGISTRATION



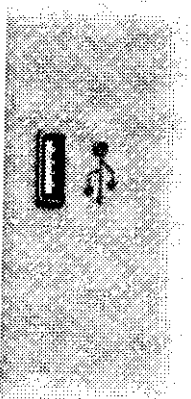
USB TABLET INSTALLATION

Intuos USB tablets run in high-speed, high-power USB mode. The tablet must be plugged directly into a USB port on your computer or into a powered USB hub. USB ports support hot-plugging so you can connect or disconnect Intuos without turning off your computer.

If you are using an iMac, refer to the [iMac Requirements](#) section before installing Intuos.

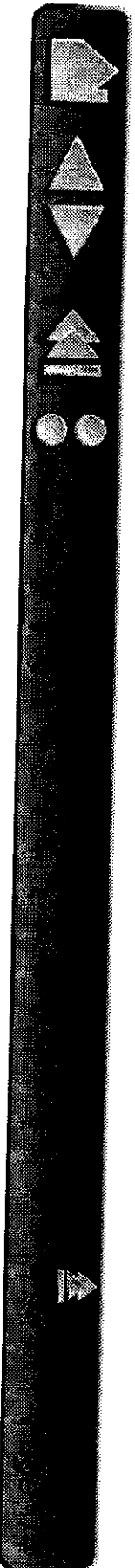
1. Plug the USB connector into a USB port at the back of your computer or into a powered USB hub.
2. If your computer is off, turn it on now. The tablet LED will light to indicate Intuos has registered as a USB device. If the LED does not light, your USB port may not be functioning properly; go to [Having Trouble?](#)
Intuos is working in mouse emulation mode. You should now be able to use your Intuos Pen on the tablet to move the screen cursor.
Important: For pressure-sensitivity, you must install the tablet software from the Intuos CD-ROM. Disable any virus protection programs and close all open applications before installing the software.
3. Insert the Intuos CD-ROM into your computer.
4. Double-click on the INSTALL icon and follow the prompts.

After restarting your computer, you will be able to use the pen to move the screen cursor with absolute positioning. If you had any trouble with this installation, go to [Having Trouble?](#)



To tablet

&&Cable image needs
update for GD USB, filename
USBcable.tif



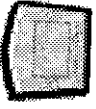
Each time you start your computer, the Wacom Tablet startup icon tells you if the tablet driver has successfully loaded.



The driver is loading.



The driver did not load.



The driver has loaded successfully.

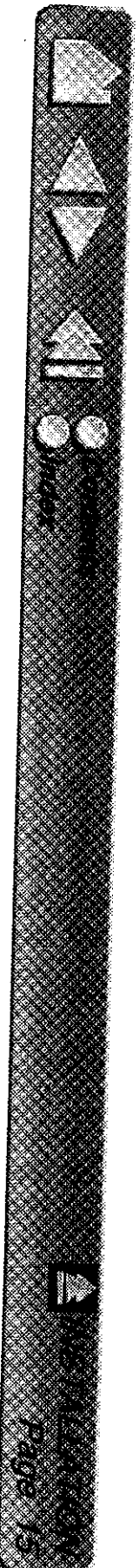


The driver loaded, but a Wacom tablet cannot be found. The tablet may be unplugged.

IMAC REQUIREMENTS

Intuos requires Mac OS 8.5 or greater and Mac OS ROM 1.2.1 or greater.

1. **Verify the Mac OS and ROM versions:** Click on the Apple icon and select ABOUT THIS COMPUTER.... The ABOUT THIS COMPUTER dialog box will appear with the OS version displayed in the top right corner. Mac OS 8.5 or greater is required. If the version shown is older than Mac OS 8.5, contact your local computer dealer to purchase an upgrade. If Mac OS ROM version 1.2.1 or greater displays under the Mac OS version, your iMac does not need the firmware or OS ROM update. If it does not appear or an older Mac OS ROM is installed, continue with the instructions below to install the iMAC FIRMWARE UPDATE and then install iMAC UPDATE 1.1.
2. **Install the iMac Firmware Update:** In the APPLE iMAC UPDATES folder located on the Intuos CD-ROM, double-click on the iMAC FIRMWARE UPDATE icon. This will decompress the file. Then double-click on the iMAC FIRMWARE UPDATE icon that appears on the desktop and follow the prompts. If in doubt, install this update.
3. **Install iMac Update 1.1:** Install iMAC UPDATE 1.1 by double-clicking on the iMAC UPDATE 1.1 icon located in the APPLE iMAC UPDATES folder. This will decompress the file. Then double-click on the iMAC UPDATE icon that appears on the desktop and follow the prompts. If in doubt, install this update.
4. After updating your system, perform the [USB Tablet Installation](#).



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 REMOVE instead of INSTALL.

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://tablet.wacom.co.jp>

Asia Pacific (English)

<http://www.wacom.co.jp/asia-pacific>

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

Europe, Middle East and Africa

<http://www.wacom.de/productinfo>

USA, Canada, Central and South America

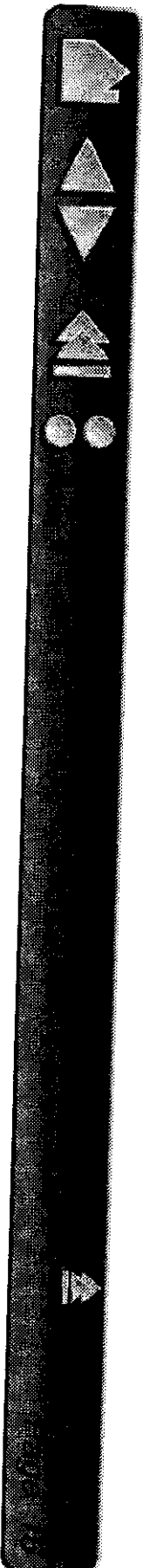
<http://www.wacom.com/productinfo>

Japan

<http://tablet.wacom.co.jp>

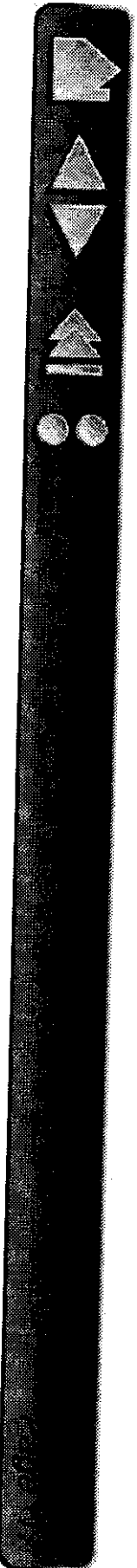
Asia Pacific (English)

<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.

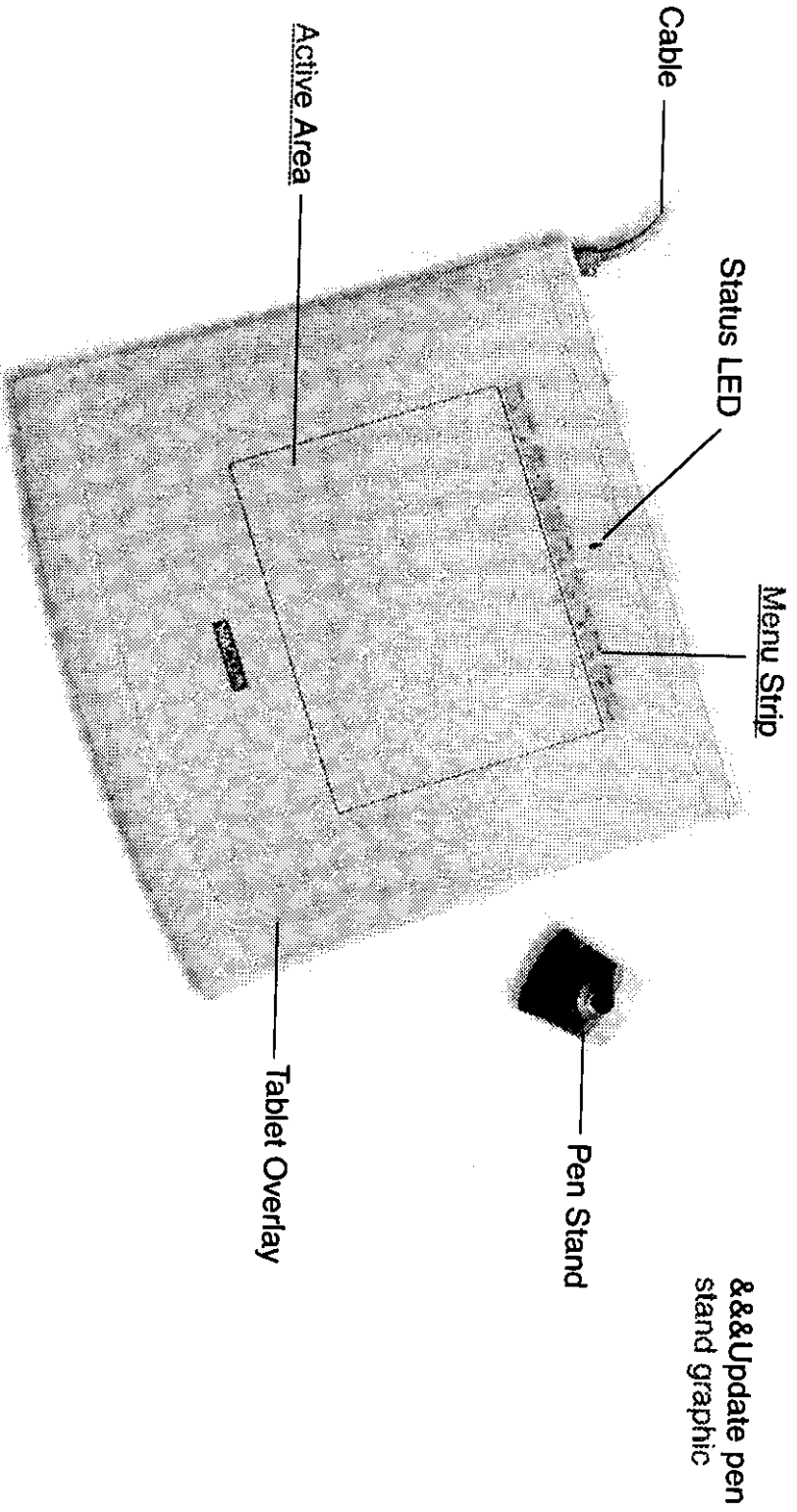
- APPEARANCE AND FEATURES
- SETTING UP YOUR WORK AREA
- WORKING WITH THE TABLET
- USING THE PEN
- USING THE AIRBRUSH
- USING THE 4D MOUSE
- USING THE LENS CURSOR
- CARING FOR YOUR TOOLS AND TABLET



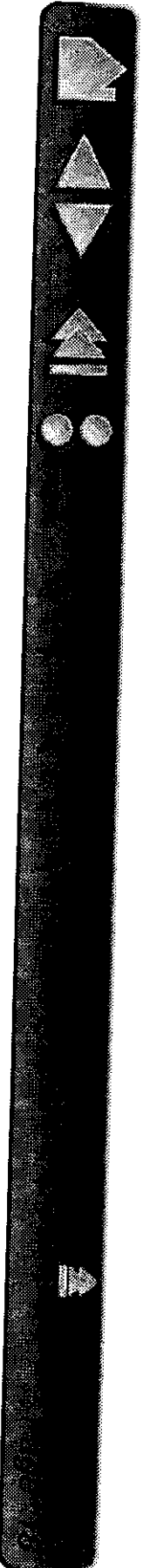
APPEARANCE AND FEATURES

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.

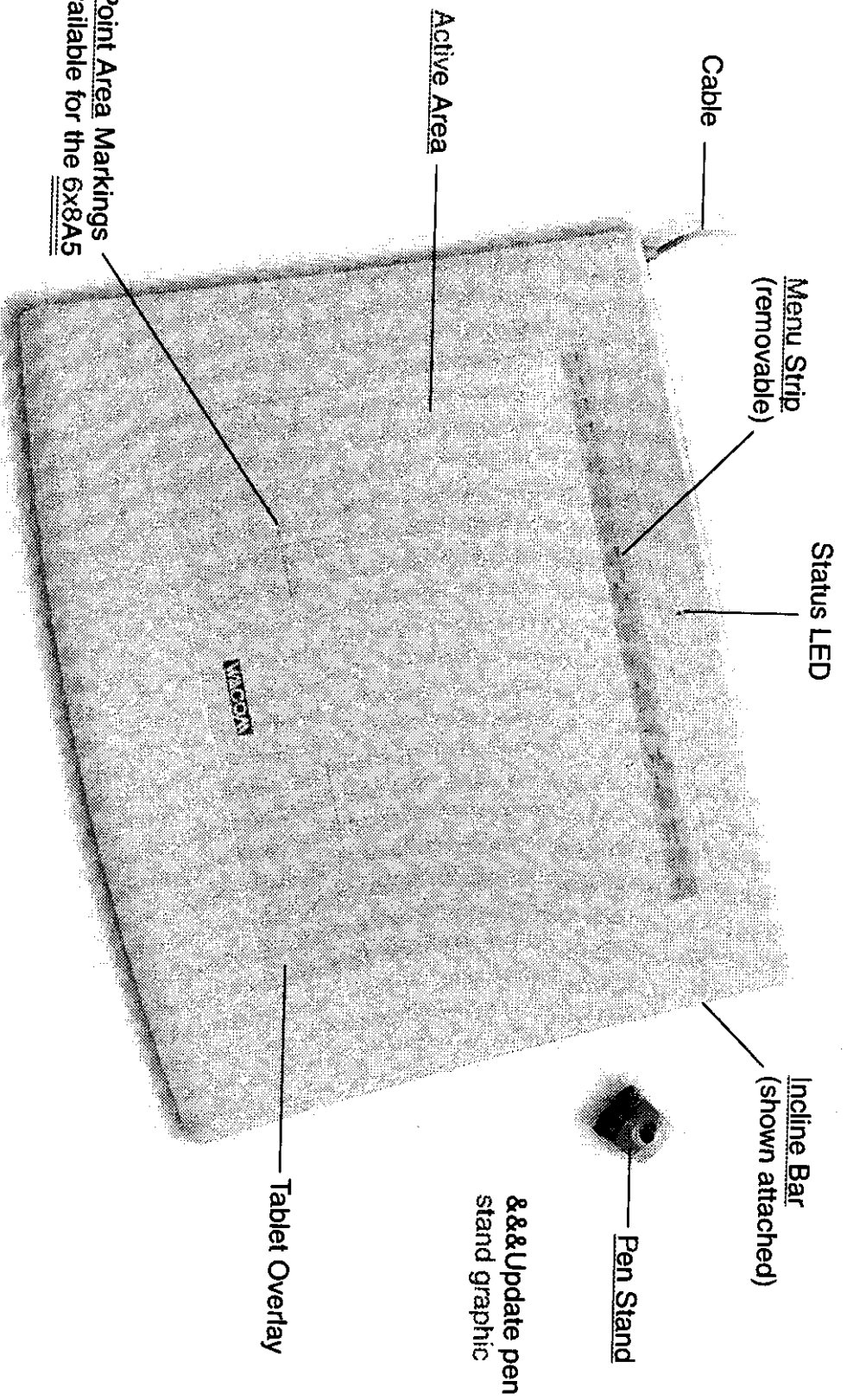
INTUOS 4X5A6 TABLET



Note: To learn more about your tablet, see Working with the Tablet.

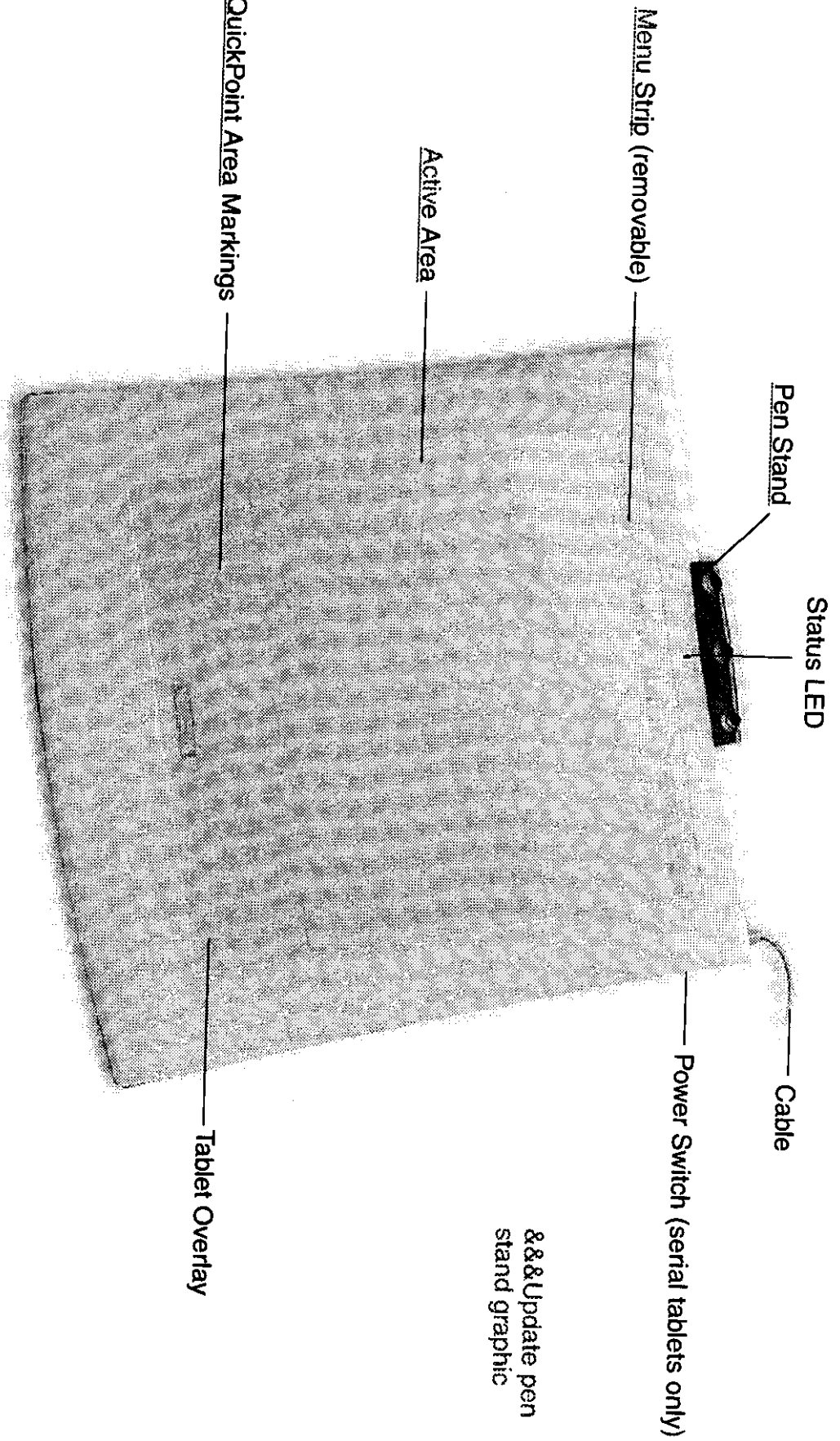


INTUOS 6X8A5 AND 9X12A4 REGULAR TABLETS



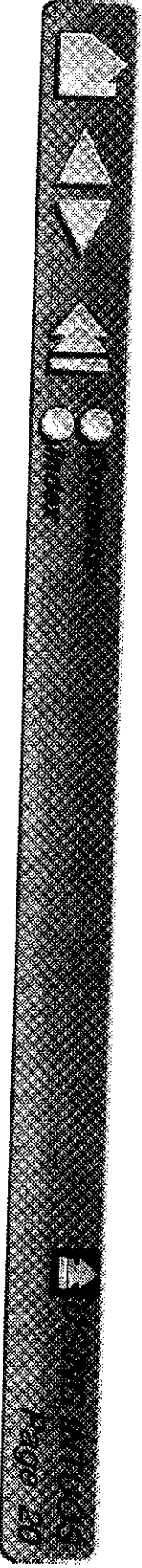
Note: The Intuos 9x12A4 regular tablet is shown. To learn more about your tablet, see [Working with the Tablet](#).

INTUOS 12X12A4 OVERSIZE AND 12X18A3 TABLETS

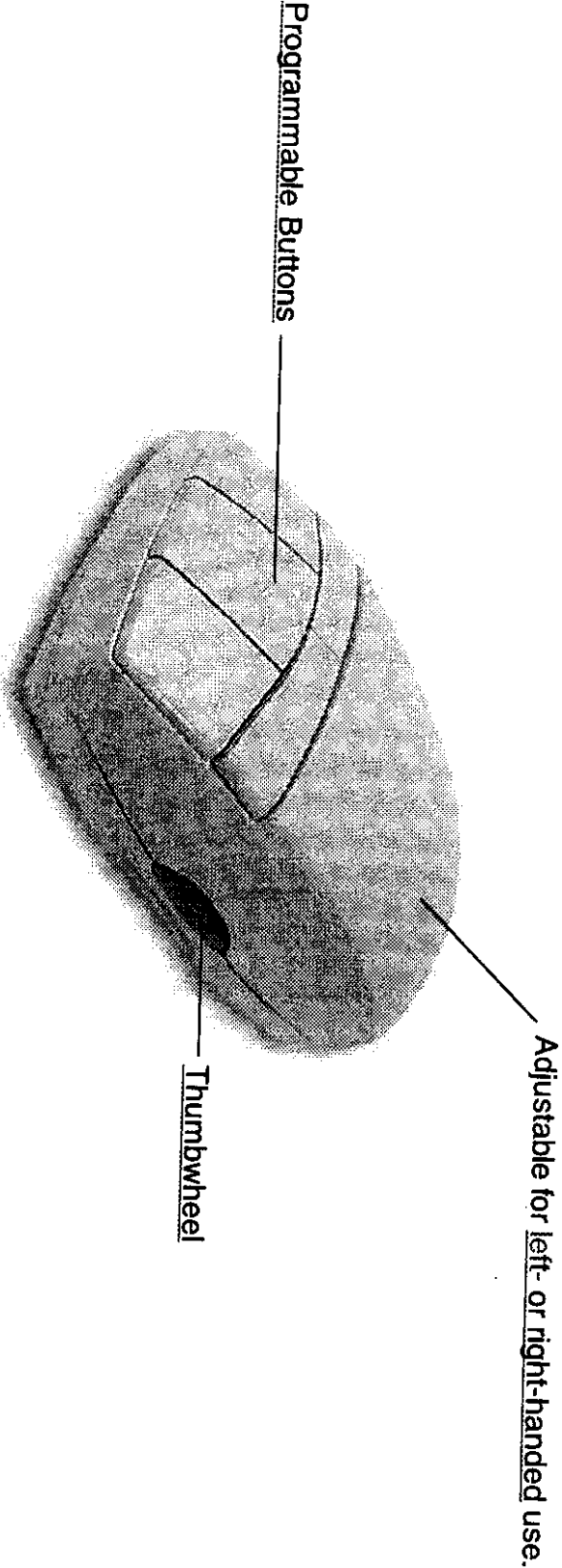


&& Update pen stand graphic

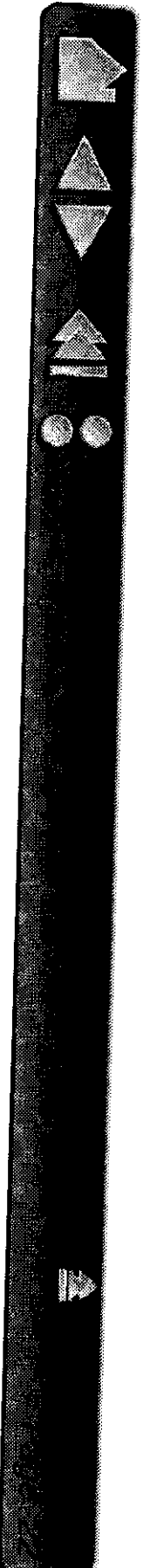
Note: The Intuos 12x12A4 oversize tablet is shown. To learn more about your tablet, see [Working with the Tablet](#).



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.



4D Mouse



SETTING UP YOUR WORK AREA

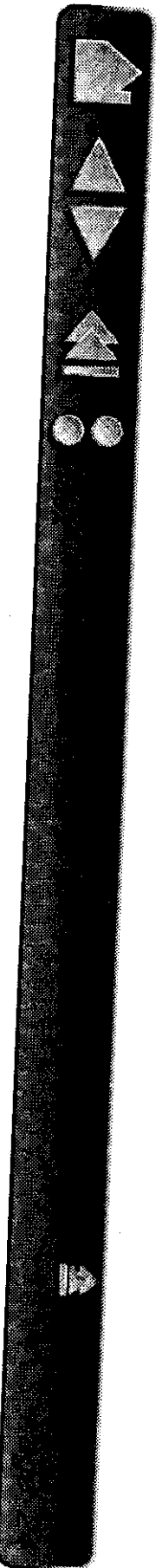
Organize your work area so you can work comfortably. Position your Intuos tablet, input tools, and keyboard so they are easily accessible without unnecessary reaching. Your monitor should be positioned so you can view it comfortably with a minimum of eyestrain.



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.



USA, Canada, Central and South America
Contact your local distributor, or:

Worldwide Web:

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

24-hour Technical Support information:

Answerbook—online support database.

FAQs—Frequently Asked Questions and answers.

Software updates.

Email support.

Anonymous FTP Site: [ftp.wacom.com/pub/drivers](ftp://www.wacom.com/pub/drivers)

Software updates.

Phone: ++1-360-896-9833

Technical Support. (English)

(Normal business hours, Pacific Time)

FAX: ++1-360-896-9724

Technical Support. (English)

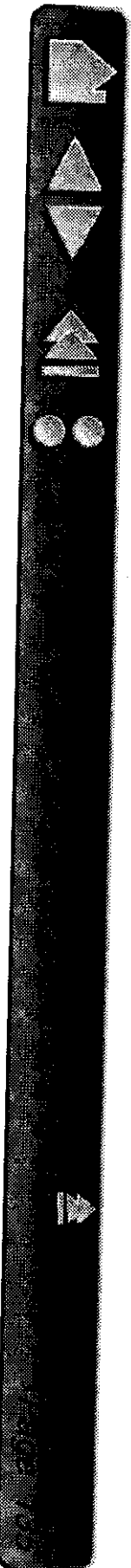
Internet Email: support@wacom.com

Automated mailbox support. (English)

Fast FAX: 1-800-922-7590 (USA and Canada)

Automated support and sales information.
(English)

To purchase parts and accessories, call toll-free: 1-888-884-1870 (USA and Canada only). Outside of the USA and Canada, please contact your local dealer or distributor.



USA, Canada, Central and South America

Contact your local distributor, or:

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

24-hour Technical Support information:

Answerbook—online support database.

FAQs—Frequently Asked Questions and answers.

Software updates.

Email support.

Anonymous FTP Site: [ftp.wacom.com/pub/drivers](ftp://ftp.wacom.com/pub/drivers)

Software updates.

Phone: ++1-360-896-9833

Technical Support. (English)

(Normal business hours, Pacific Time)

FAX: ++1-360-896-9724

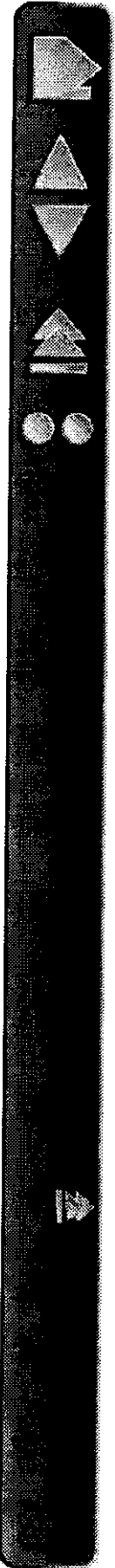
Technical Support. (English)

Internet Email: support@wacom.com

Automated mailback support. (English)

Fast FAX: 1-800-922-7590 (USA and Canada)

Automated support and sales information.
(English)



PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS FOR ALL INTUOS TABLETS

Coordinate resolution	100 lppmm (2540 lpi)
Accuracy (pen)	+/- 0.25 mm (0.010 in)
Accuracy (Lens Cursor)	+/- 0.15 mm (0.006 in), +/- 0.25 mm (0.010 in) on Intuos <u>4x5A6</u> , <u>6x8A5</u> , and <u>9x12A4</u> regular tablets
Tilt	+/- 60 degrees, +/- 50 degrees for Intuos <u>4x5A6</u> tablets
Maximum reading height with pen	6 mm (0.24 in)
Maximum report rate	200 points per second
Communication interface	Apple Desktop Bus (ADB) (for <u>4x5A6</u>, <u>6x8A5</u>, and <u>9x12A4</u> regular tablets) Serial (for <u>12x12A4</u> oversize and larger tablets) <u>USB (all USB tablets)</u>
Connector	4 pin, mini-circular DIN (4x5A6, 6x8A5, and 9x12A4 regular tablets) 9-pin, D-sub, female (12x12A4 oversize and larger tablets) <u>USB A (all USB tablets)</u>
Power requirements (ADB tablets)	DC 5V, 100mA, from ADB port
Power requirements (USB tablets)	DC 5V, less than 500mA, from primary USB port or powered USB hub
Power supply (12x12A4 oversize and larger serial tablets)	DC 12V 200mA
Power Adaptor(s) (12x12A4 oversize and larger serial tablets)	AEC-3512B-W (120V, USA), AD-3923FM-W (230V, Continental Europe), AD-4230S-W (240V, Australia), AD-7442-W (240V, UK)
Operating temperature	5 to 40 degrees C (41 to 104 degrees F)
Storage temperature	-10 to +60 degrees C (14 to 140 degrees F)
Operating relative humidity	20% to 80% noncondensing
Storage relative humidity	20% to 90% noncondensing
Certification	FCC class B



Compliance

VCCI Class B, CE

INTUOS 4X5A6 TABLET (MODELS GD-0405-A, GD-0405-U)

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	0.5 watts (ADB) , 2.0 watts (USB)

INTUOS 6X8A5 TABLET (MODELS GD-0608-A, GD-0608-U)

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	0.5 watts (ADB) , 2.0 watts (USB)



INTUOS 9X12A4 REGULAR TABLET (MODELS GD-0912-A, GD-0912-U)

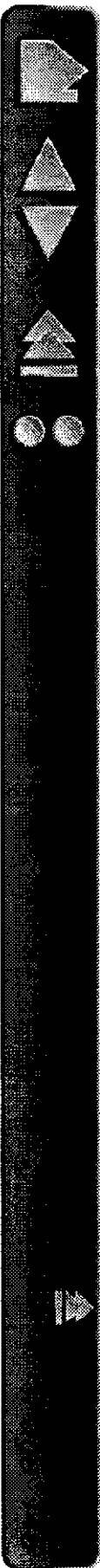
Active area (W x D) 304.8 x 240.6 mm (12.19 x 9.62 in)
Physical size (W x D x H) 456.0 x 361.0 x 14.0 mm (17.97 x 14.22 x 0.56 in)
Cable length 2.5 m (8.2 ft)
Weight 1.6 kg (3.52 lb)
Power consumption ~~0.5 watts (ADB)~~, 2.0 watts (USB)

INTUOS 12X12A4 OVERSIZE TABLET (MODELS GD-1212-R, GD1212-U)

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 (Serial)~~, 2.0 watts (USB)

INTUOS 12X18A3 TABLET (MODELS GD-1218-R, GD-1218-U)

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 (Serial)~~, 2.0 watts (USB)



INTUOS PEN (MODEL GP-300E)

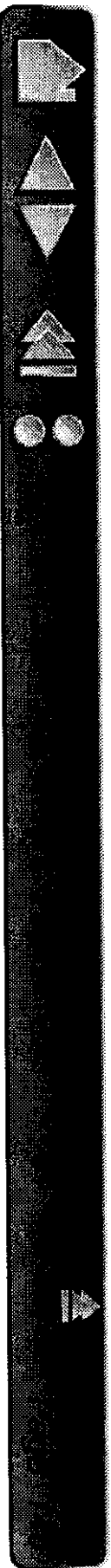
Pen tip travel	0.1 mm (0.004 in) or less
Pressure levels	1024 levels
Eraser tip travel	1.3 mm (0.051 in), approximately
Physical size (L x D)	151 x 12.2 mm (5.9 x 0.48 in)
Weight	13 g (0.46 oz), approximately
Tip refill type	Polyacetal (Part No. PSI-A007)

INTUOS AIRBRUSH (MODEL GP-400E)

Fingerwheel travel	10 mm (0.39 in)
Fingerwheel resolution	1024 levels
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 (Part No. PSI-A023)



INTUOS STROKE PEN (MODEL GP-120)

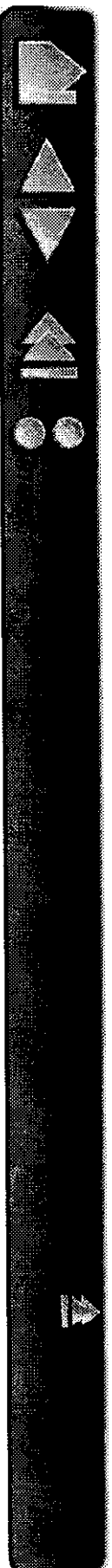
Pen tip travel	1.3 mm (0.05 in), approximately
Pressure levels	1024 levels
Physical size (L x D)	151 x 12.5 mm (5.94 x 0.49 in)
Weight	12 g (0.42 oz), approximately
Tip refill type	Polycetal (Part No. PSI-A011)

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), approximately
Thumbwheel travel	+/- 10 mm (+/- 0.4 in)
Thumbwheel resolution	+/- 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), approximately



Wacom Intuos™ User's Manual for Macintosh®, March 25, 1999
English V2.0 for MacintoshEuropean English V2.0 for Macintosh
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Contents

Index

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.

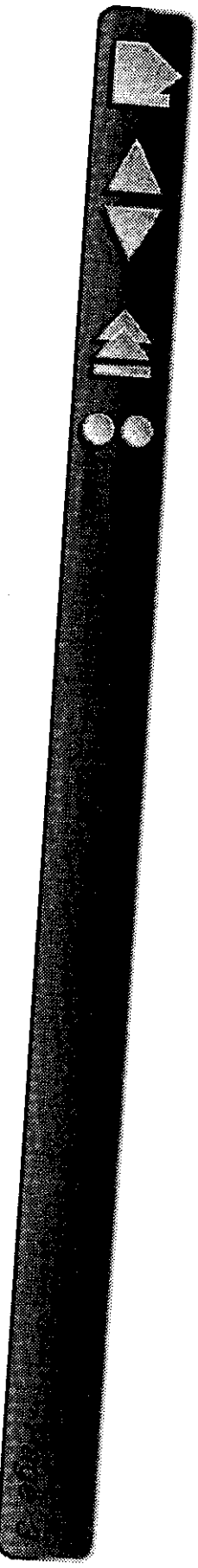
You can determine whether your tablet is causing interference by disconnecting it from the computer. If the interference stops, it was probably caused by the tablet.

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-B, GD-1218-B, GD-1218-R, GD-1218-R, GD-0405-U, GD-0608-U, GD-0912-U, GD-1212-U, and GD-1218-U~~ have been tested by the ~~WAVE Corporation~~ in Japan and found to comply to the following harmonized European Norms:

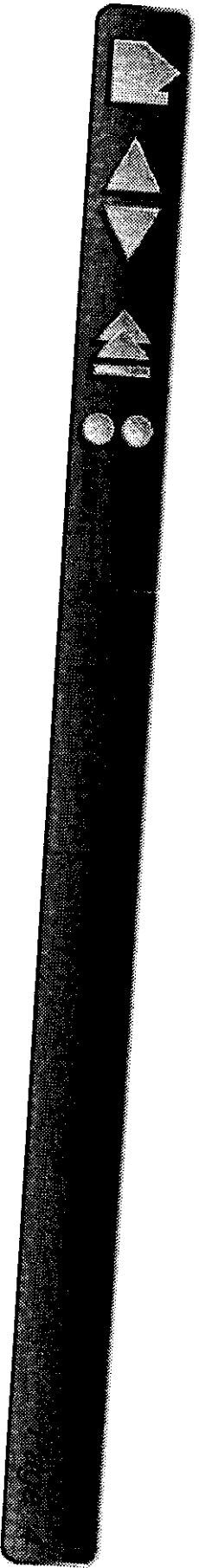
- EN 50082-1 (electromagnetic immunity)
- EN 55022 Class B (electromagnetic emissions)

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

- EN 50082-1 or EN 55104 (electromagnetic immunity)
- EN 50081-1 or 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.



Resolving Software Conflicts	127
 Using the Extensions Manager	117
 Manually Resolving a Conflict	118
 Testing Your Intuos Tools	121
 Testing a Pen or Airbrush	121
 Testing a 4D Mouse or Lens Cursor	123
Troubleshooting Tables	124
 ADB Tablet Problems	124
 Serial Tablet Problems	125
 USB Tablet Problems	127
 General Problems	128
Contacting Technical Support	133
 Linking to the Web Page	133
 Pre-Contact Checklist	138
 Who to Call	134
 USA, Canada, Central and South America	135
 Europe, Middle East and Africa	136
 Japan	137
 Asia Pacific (English)	137
 Europe, Middle East and Africa	138
 USA, Canada, Central and South America	139
 Japan	140
 Asia Pacific (English)	140
APPENDICES	141
 Installing Multiple Tablets	142
 Product Specifications	143
 General Specifications for All Intuos Tablets	143
 Intuos 4x5A6 Tablet (Models GD-0405-A, GD-0405-U)	144
 Intuos 6x8A5 Tablet (Models GD-0608-A, GD-0608-U)	144

Intuos 9x12A4 Regular Tablet (Models GD-0912-A, GD-0912-U)	145
Intuos 12x12A4 Oversize Tablet (Models GD-1212-R, GD-1212-U)	145
Intuos 12x18A3 Tablet (Models GD-1218-R, GD-1218-U)	145
Intuos Pen (Model GP-300E)	146
Intuos Airbrush (Model GP-400E)	146
Intuos Inking Pen (Model GP-110)	146
Intuos Stroke Pen (Model GP-120)	147
Intuos 4D Mouse (Model GC-500)	147
Intuos Lens Cursor (Model GC-210)	147
Parts and Accessories	148
 Ordering Parts and Accessories	148
 Pens	148
 Airbrush	149
 4D Mouse	149
 Lens Cursor	149
 Other Parts and Accessories	150
 License and Warranties	151
 Software License	151
 Limited Warranty	152
 Warranty on Sales Outside of U.S. and Canada	154
 License and Warranties	155
 Software License Agreement	155
 Limited Warranty and Liability	156
 Liability of WACOM	157
GLOSSARY	158
INDEX	162



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. The information is common to all tablet types (ADB, serial, and USB), unless otherwise noted.

- [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.

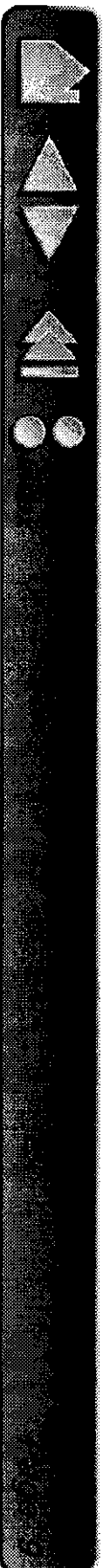
As you read through the *Customizing* and *Advanced Features* chapters, you will notice that the screen shots of the control panel tabs do not show the tab buttons. These are intentionally left out in order to save space within the manual.

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.



Go to Table of Contents.



Go to Index.



Go back to previous view.



Page back, or page forward.



HEADING TEXT

Go to beginning of section.

Topic

Go to topic.



Topic continued.

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



INSTALLATION

Intuos ADB and serial tablets are compatible with Macintosh systems using Mac OS 7.0 or later, and with all applications that support a mouse.

USB tablets are compatible with any Power Macintosh equipped with a USB port, and with all applications that support a mouse. For the iMac, you will need Mac OS 8.5 or greater, Mac OS ROM 1.2.1 or greater, and iMac Update 1.1.

The Wacom control panel requires a 640 x 480 or larger color monitor for proper display.

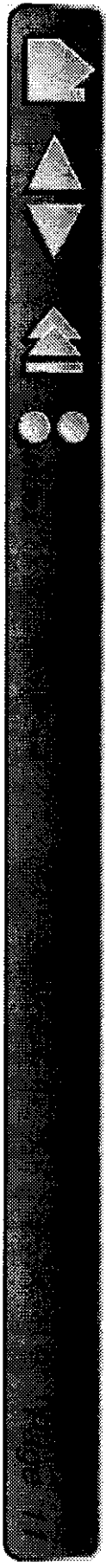
ADB TABLET INSTALLATION

SERIAL TABLET INSTALLATION

USB TABLET INSTALLATION

UNINSTALLING THE SOFTWARE

REGISTRATION



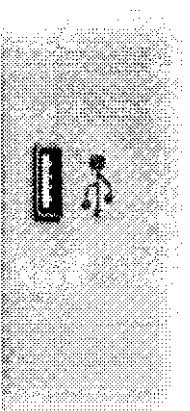
USB TABLET INSTALLATION

Intuos USB tablets run in high-speed, high-power USB mode. The tablet must be plugged directly into a USB port on your computer or into a powered USB hub. USB ports support hot-plugging so you can connect or disconnect Intuos without turning off your computer.

If you are using an iMac, refer to the [iMac Requirements](#) section before installing Intuos.

1. Plug the USB connector into a USB port at the back of your computer or into a powered USB hub.
2. If your computer is off, turn it on now. The tablet LED will light to indicate Intuos has registered as a USB device. If the LED does not light, your USB port may not be functioning properly; go to [Having Trouble?](#)
Intuos is working in mouse emulation mode. You should now be able to use your Intuos Pen on the tablet to move the screen cursor.
Important: For pressure-sensitivity, you must install the tablet software from the Intuos CD-ROM. Disable any virus protection programs and close all open applications before installing the software.
3. Insert the Intuos CD-ROM into your computer.
4. Double-click on the INSTALL icon and follow the prompts.

After restarting your computer, you will be able to use the pen to move the screen cursor with absolute positioning. If you had any trouble with this installation, go to [Having Trouble?](#)



To tablet

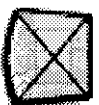
&&Cable image needs
update for GD USB, filename
USBcable.tif



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 did not load.



The driver has loaded successfully.



The driver loaded, but a Wacom tablet cannot be found. The tablet may be unplugged.

IMAC REQUIREMENTS

Intuos requires Mac OS 8.5 or greater and Mac OS ROM 1.2.1 or greater.

1. **Verify the Mac OS and ROM versions:** Click on the Apple icon and select ABOUT THIS COMPUTER.... The ABOUT THIS COMPUTER dialog box will appear with the OS version displayed in the top right corner. Mac OS 8.5 or greater is required. If the version shown is older than Mac OS 8.5, contact your local computer dealer to purchase an upgrade. If Mac OS ROM version 1.2.1 or greater displays under the Mac OS version, your iMac does not need the firmware or OS ROM update. If it does not appear or an older Mac OS ROM is installed, continue with the instructions below to install the iMAC FIRMWARE UPDATE and then install iMAC UPDATE 1.1.
2. **Install the iMac Firmware Update:** In the APPLE iMAC UPDATES folder located on the Intuos CD-ROM, double-click on the iMAC FIRMWARE UPDATE icon. This will decompress the file. Then double-click on the iMAC FIRMWARE UPDATE icon that appears on the desktop and follow the prompts. If in doubt, install this update.
3. **Install iMac Update 1.1:** Install iMAC UPDATE 1.1 by double-clicking on the iMAC UPDATE 1.1 icon located in the APPLE iMAC UPDATES folder. This will decompress the file. Then double-click on the iMAC UPDATE icon that appears on the desktop and follow the prompts. If in doubt, install this update.
4. After updating your system, perform the [USB Tablet Installation](#).

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 REMOVE instead of INSTALL.

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

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



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

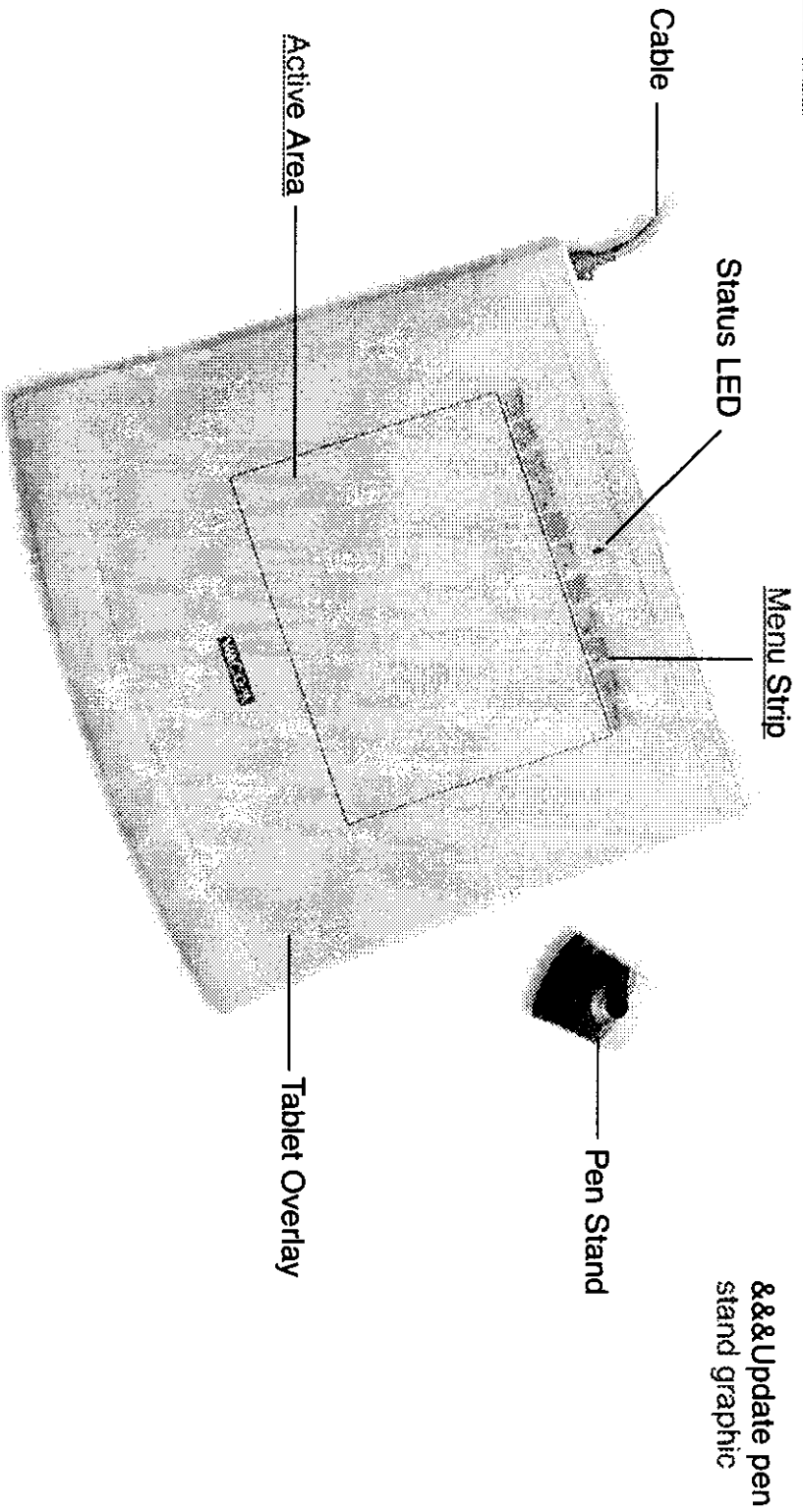
CARING FOR YOUR TOOLS AND TABLET



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.

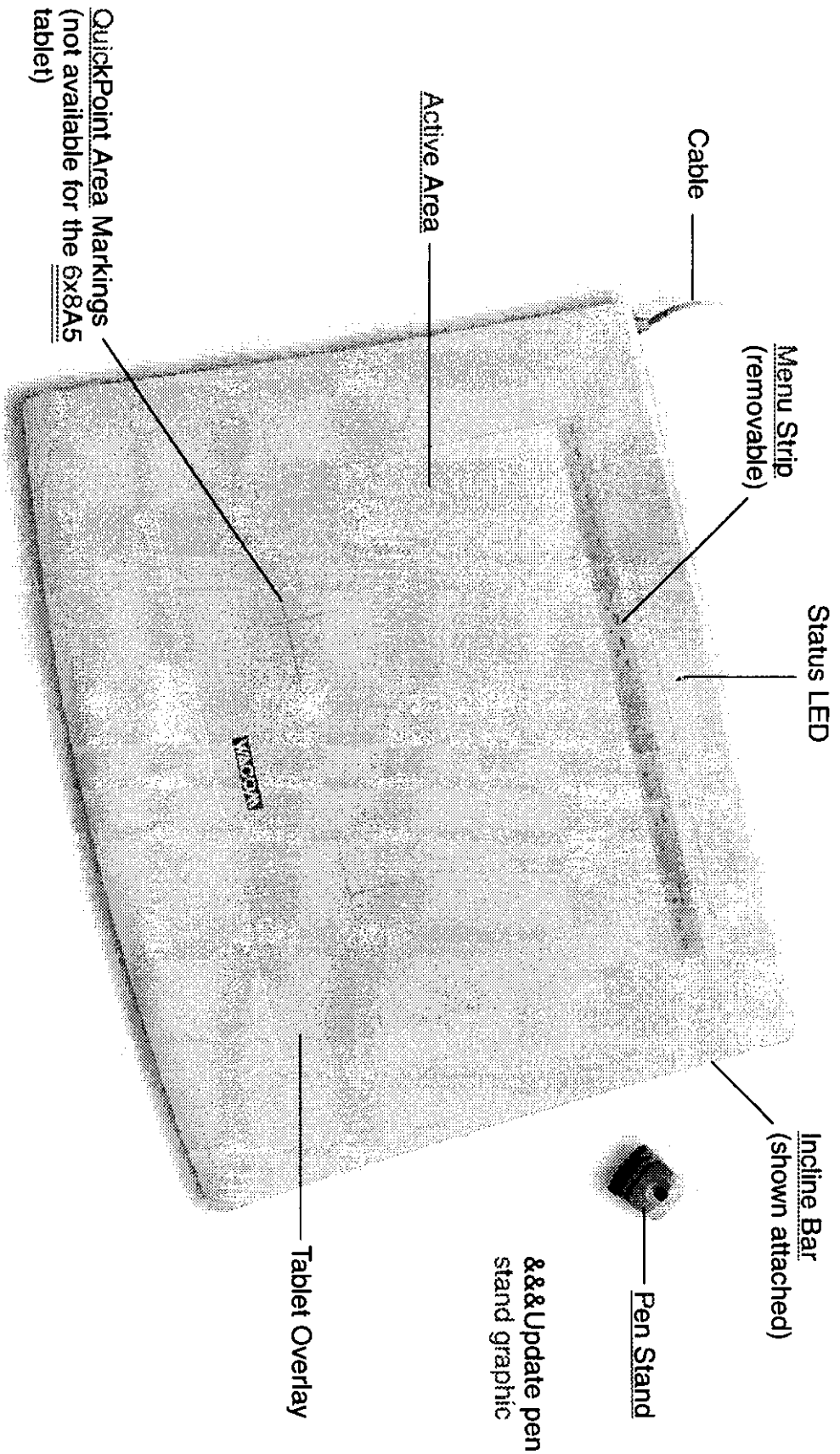
INTUOS 4X5A6 TABLET



Note: To learn more about your tablet, see Working with the Tablet.

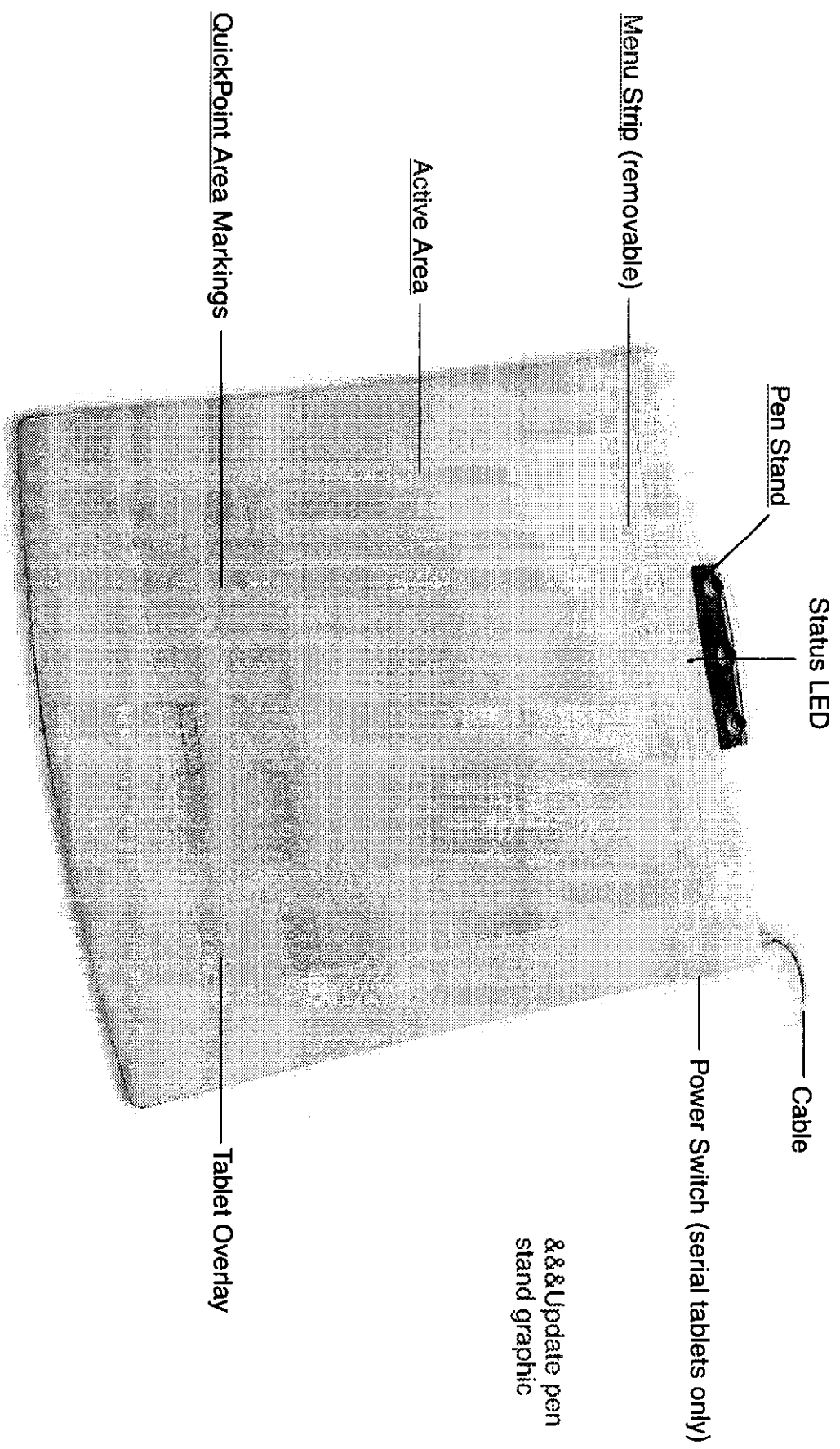


INTUOS 6X8A5 AND 9X12A4 REGULAR TABLETS



Note: The Intuos 9x12A4 regular tablet is shown. To learn more about your tablet, see [Working with the Tablet](#).

INTUOS 12X12A4 OVERSIZE AND 12X18A3 TABLETS



&& Update pen stand graphic

Note: The Intuos 12x12A4 oversize tablet is shown. To learn more about your tablet, see [Working with the Tablet](#).

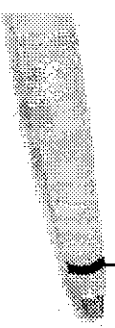
INTUOS TOOLS

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.

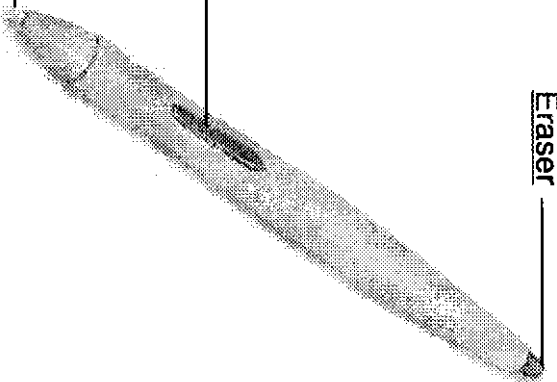
Note: The tool(s) included with your tablet will vary depending on which tablet model and configuration you purchased.

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.

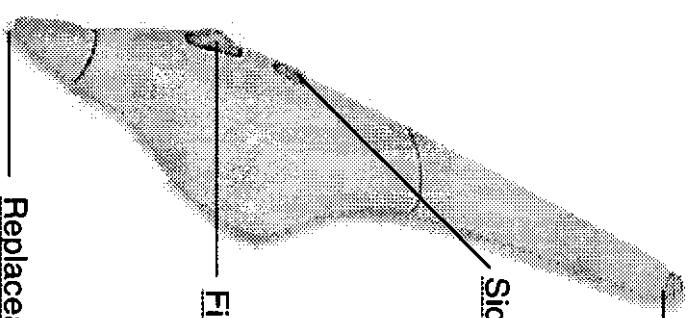


DuoSwitch (rocker style)



Eraser

Replaceable Nib (pen tip) — Intuos Pen

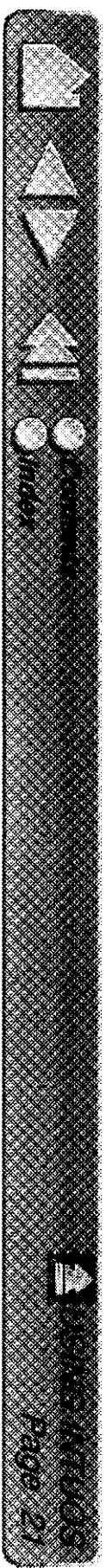


Eraser

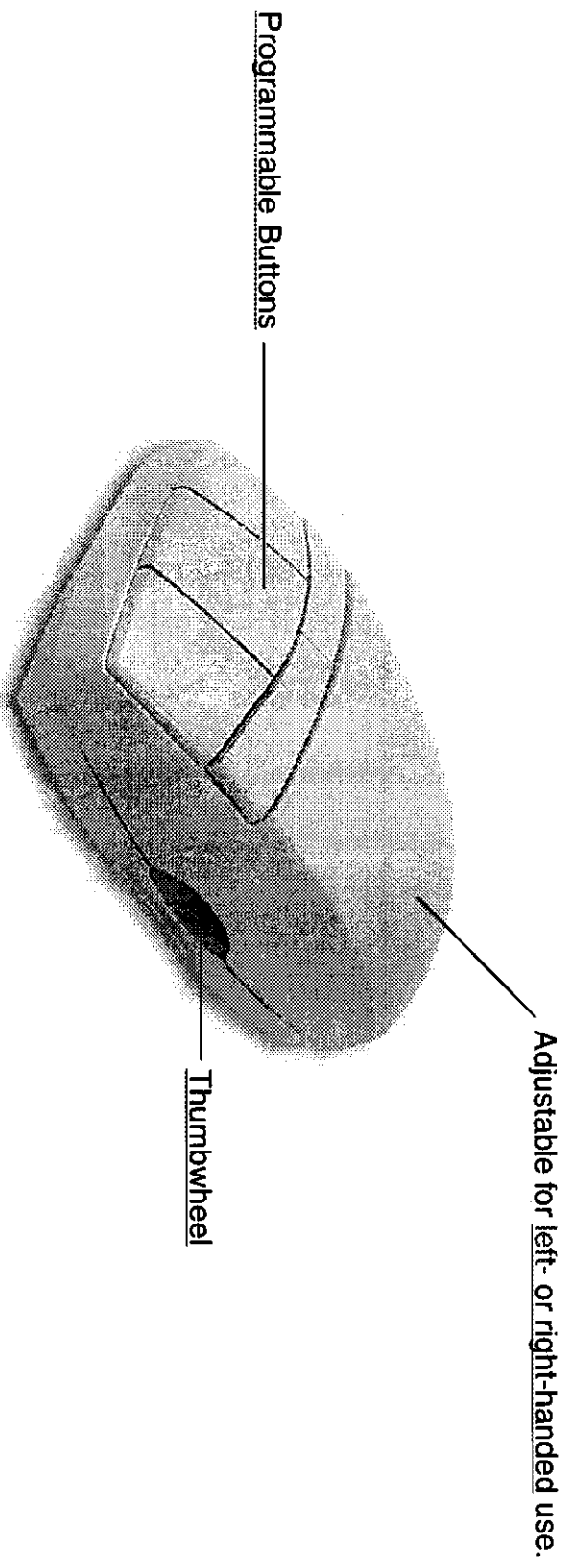
Side Switch

Fingerwheel

Replaceable Nib — Intuos Airbrush



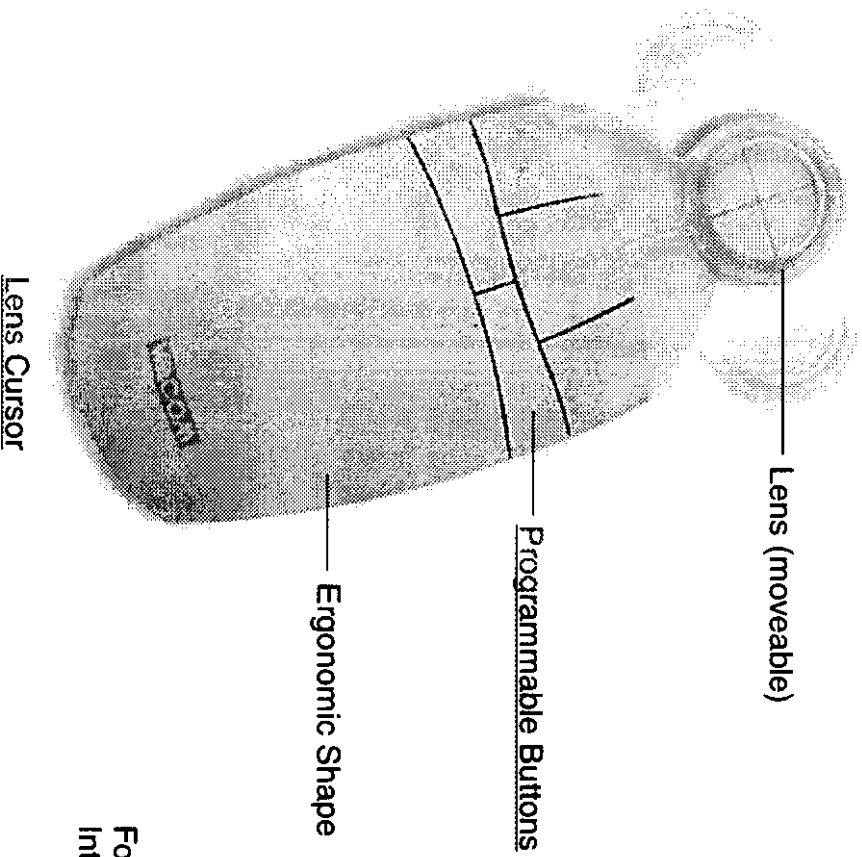
The Intuos 4D Mouse is an ideal tool for 2D or 3D navigation. It provides four degrees of control: x and y position, thumbwheel position, and positional rotation. The thumbwheel can be used for application-specific tasks in supporting applications.



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 very accurate tracing or for digitizing images.



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

SETTING UP YOUR WORK AREA

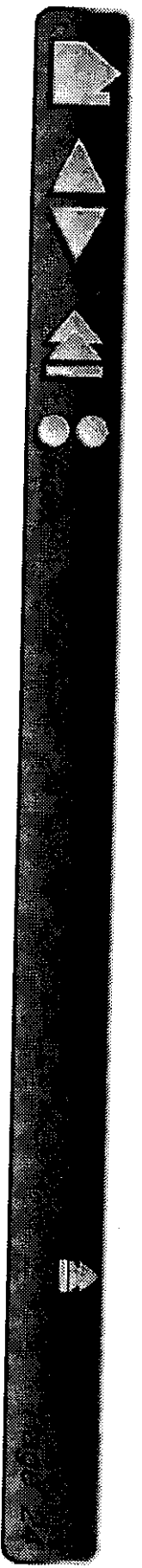
Organize your work area so you can work comfortably. Position your Intuos tablet, input tools, and keyboard so they are easily accessible without unnecessary reaching. Your monitor should be positioned so you can view it comfortably with a minimum of eyestrain.



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.



USA, Canada, Central and South America

Contact your local distributor, or:

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

24-hour Technical Support information:
Answerbook—online support database.
FAQs—Frequently Asked Questions and answers.
Software updates.
Email support.

Anonymous FTP Site: [ftp.wacom.com/pub/drivers](ftp://ftp.wacom.com/pub/drivers)

Software updates.

Phone: ++1-360-896-9833

Technical Support. (English)
(Normal business hours, Pacific Time)

FAX: ++1-360-896-9724

Technical Support. (English)

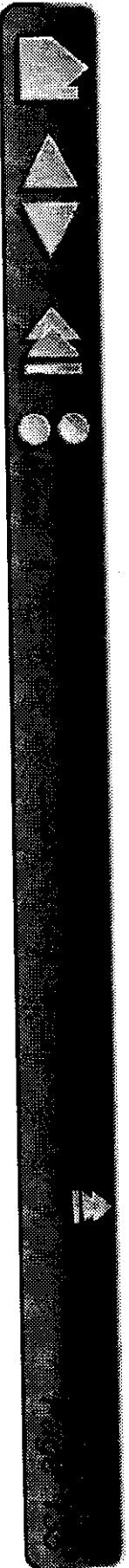
Internet Email: support@wacom.com

Automated mailback support. (English)

Fast FAX: 1-800-922-7590 (USA and Canada)

Automated support and sales information.
(English)

To purchase parts and accessories, call toll-free: 1-888-884-1870 (USA and Canada only). Outside of the USA and Canada, please contact your local dealer or distributor.



USA, Canada, Central and South America

Contact your local distributor, or:

Worldwide Web:

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

24-hour Technical Support information:

Answerbook—online support database.

FAQs—Frequently Asked Questions and answers.

Software updates.

Email support.

Anonymous FTP Site:

[ftp.wacom.com/pub/drivers](ftp://www.wacom.com/pub/drivers)

Software updates.

Phone:

++1-360-896-9833

Technical Support. (English)

(Normal business hours, Pacific Time)

FAX:

++1-360-896-9724

Technical Support. (English)

Internet Email:

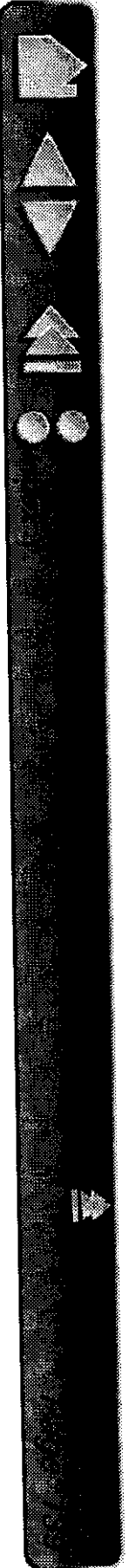
support@wacom.com

Automated mailback support. (English)

Fast FAX:

1-800-922-7590 (USA and Canada)

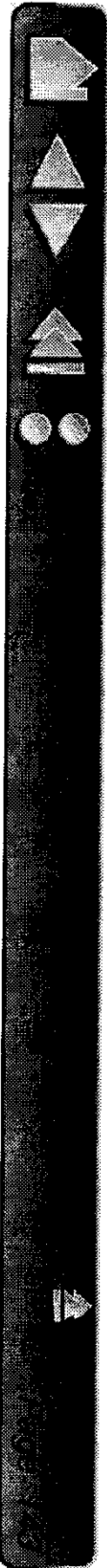
Automated support and sales information.
(English)



PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS FOR ALL INTUOS TABLETS

Coordinate resolution	100 lppm (2540 lpi)
Accuracy (pen)	+/- 0.25 mm (0.010 in)
Accuracy (Lens Cursor)	+/- 0.15 mm (0.006 in), +/- 0.25 mm (0.010 in) on Intuos 4x5A6, 6x8A5, and 9x12A4 regular tablets
Tilt	+/- 60 degrees, +/- 50 degrees for Intuos 4x5A6 tablets
Maximum reading height with pen	6 mm (0.24 in)
Maximum report rate	200 points per second
Communication interface	Apple Desktop Bus (ADB) (for 4x5A6, 6x8A5, and 9x12A4 regular tablets) Serial (for 12x12A4 oversize and larger tablets) USB (all USB tablets)
Connector	4 pin, mini-circular DIN (4x5A6, 6x8A5, and 9x12A4 regular tablets) 9-pin, D-sub, female (12x12A4 oversize and larger tablets) USB A (all USB tablets)
Power requirements (ADB tablets)	DC 5V, 100mA, from ADB port
Power requirements (USB tablets)	DC 5V, less than 500mA, from primary USB port or powered USB hub
Power supply (12x12A4 oversize and larger serial tablets)	DC 12V 200mA
Power Adaptor(s) (12x12A4 oversize and larger serial tablets)	AEC-3512B-W (120V, USA), AD-3923FM-W (230V, Continental Europe), AD-4230S-W (240V, Australia), AD-7442-W (240V, UK)
Operating temperature	5 to 40 degrees C (41 to 104 degrees F)
Storage temperature	-10 to +60 degrees C (14 to 140 degrees F)
Operating relative humidity	20% to 80% noncondensing
Storage relative humidity	20% to 90% noncondensing
Certification	FCC class B



Compliance

VCCI Class B, CE

INTUOS 4X5A6 TABLET (MODELS GD-0405-A, GD-0405-U)

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	0.5 watts (ADB) , 2.0 watts (USB)

INTUOS 6X8A5 TABLET (MODELS GD-0608-A, GD-0608-U)

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	0.5 watts (ADB) , 2.0 watts (USB)



INTUOS 9X12A4 REGULAR TABLET (MODELS GD-0912-A, GD-0912-U)

Active area (W x D) 304.8 x 240.6 mm (12.19 x 9.62 in)
Physical size (W x D x H) 456.0 x 361.0 x 14.0 mm (17.97 x 14.22 x 0.56 in)
Cable length 2.5 m (8.2 ft)
Weight 1.6 kg (3.52 lb)
Power consumption ~~0.5 watts (ADB)~~, 2.0 watts (USB)

INTUOS 12X12A4 OVERSIZE TABLET (MODELS GD-1212-R, GD1212-U)

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 (Serial)~~, 2.0 watts (USB)

INTUOS 12X18A3 TABLET (MODELS GD-1218-R, GD-1218-U)

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 (Serial)~~, 2.0 watts (USB)



INTUOS PEN (MODEL GP-300E)

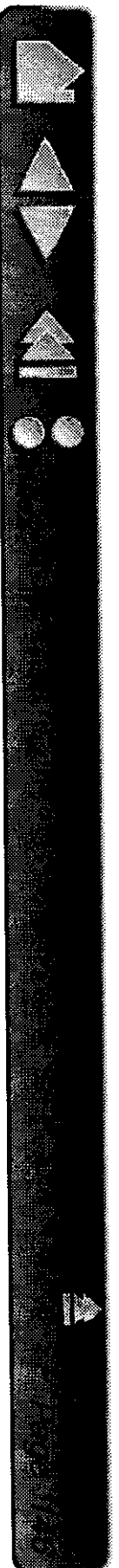
Pen tip travel	0.1 mm (0.004 in) or less
Pressure levels	1024 levels
Eraser tip travel	1.3 mm (0.051 in), approximately
Physical size (L x D)	151 x 12.2 mm (5.9 x 0.48 in)
Weight	13 g (0.46 oz), approximately
Tip refill type	Polyacetal (Part No. PSI-A007)

INTUOS AIRBRUSH (MODEL GP-400E)

Fingerwheel travel	10 mm (0.39 in)
Fingerwheel resolution	1024 levels
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 (Part No. PSI-A023)



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), approximately
Thumbwheel travel	+/- 10 mm (+/- 0.4 in)
Thumbwheel resolution	+/- 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), approximately

