

How to Extract a Wacom Driver:

After downloading the Wacom driver it is important that it is extracted correctly. If the driver is extracted incorrectly you will receive an error message. (i.e. "Cannot access required initialization file: 'A:\SETUP\WACOM.MS_'.")

To ensure that the file is extracted correctly follow these steps:

1. Create a directory on your hard drive called TABLET.
2. Download the Wacom tablet driver to your TABLET directory.
4. Place a formatted 1.44 floppy disk in drive A.
5. At the TABLET prompt type the file name, space -D, space A: and press enter.

Example: C:\PC222.EXE -D A:

6. The self extracting utility will begin to run and you will get a message saying "This file contains sub-directories. Please decompress using the -d option. Do you want to extract these files now (y/n)?" Press Y then enter and the files will decompress.
7. Load windows and read the readme.txt file.
8. After reading the readme run setup.exe from the A drive.
9. Restart windows and the new driver is completely installed

To download these instructions click [here](#).

To Download the file click [here](#).

[Back to Wacom Home Page](#)

WACOM DRIVER DISKETTE VERSION 2.22
For IBM PC, PS/2 and Compatible Systems
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Jan 3, 96

This document contains information that is important, and information that is too new to have been incorporated in the User's Manual.

Included in this document:

- 1) "SOFTWARE DISK CONTENTS"-This describes the contents of the WACOM Driver Disk.
- 2) "SOFTWARE INSTALLATION"-Instruction for installing in Windows 3.1, 95 and NT and for DOS installation.
- 3) "ERASER-AWARE APPLICATIONS"-Information on applications that support the Erasing UltraPen.
- 4) "LATE BREAKING NEWS ABOUT THE WACOM DRIVER FOR WINDOWS"-Information on features that are not currently available in the driver.
- 5) "KNOWN BUGS"-A description of known bugs and compatibility issues.
- 6) "MODIFICATIONS TO WINDOWS SYSTEM.INI AND REGISTRY"-Lists the files the installer copies and the modifications that are made to the Windows SYSTEM.INI and Registry.
- 7) "OBTAINING SOFTWARE UPDATES"-Contains information on downloading software updates.

SOFTWARE DISK CONTENTS

The WACOM software diskette contains several files in the root directory (INSTALL.BAT, PEN.INF, README.TXT, SETUP.EXE, and SETUP.LST). There are six directories containing software drivers, a test utility, and installation files. Each directory contains a text file(s) that has information on installing and using these programs. The directories are:

- | | |
|--------|---|
| ADI | Contains an ADI 4.2 protected-mode driver for AutoCAD release 12 and 13 for DOS. |
| ADOBE | Contains the plugin for pressure and eraser support for Windows 95. |
| DOS | Contains files for installing your WACOM Tablet under DOS and the test utility WTEST.COM for testing your tablet. |
| SETUP | Contains setup files for installing your WACOM Tablet in Windows. |
| WIN | Contains software drivers for Windows 3.1 and 95. |
| WIN\NT | Contains software drivers for Windows NT. |

SOFTWARE INSTALLATION

--- WINDOWS 95 PLUG AND PLAY INSTALLATION ---

- 1) Install your tablet hardware. If it has a power switch, turn it on.
- 2) Turn on your computer, Windows 95 will start.
- 3) Insert the backup copy of your WACOM software diskette in a floppy drive. If the New Hardware Found dialog box appears as Windows 95 starts up, go to step 4. If not, skip to step 6.
- 4) Select the option 'Driver from disk provided by hardware manufacturer.' Press Enter.
- 5) Type the drive name (for example, A:\) and press Enter. Follow the instructions that appear. Skip to step 7.
- 6) Select Run under the Start button. Type A:\SETUP and click OK. Follow the instructions on the screen.
- 7) Restart Windows to activate your tablet.

--- WINDOWS 3.1 AND WINDOWS NT INSTALLATION ---

- 1) Start Windows. Be sure all other applications are closed.
- 2) Insert the backup copy of your WACOM software diskette into a floppy drive.
- 3) From the Program Manager File menu, select Run and press Enter.
- 4) Type the floppy drive name followed by a colon and the setup command (for example, A:\SETUP). Press Enter and follow the instructions that appear.
- 5) Restart Windows to activate your tablet.

--- DOS INSTALLATION ---

IMPORTANT: If you are using a DOS shell under Windows 95 or NT to emulate DOS, do not install the DOS drivers. The tablet will be able to control the mouse pointer, in a DOS shell, once the WACOM driver for Windows is installed. If you want to use the tablet in a DOS shell under Windows 3.1 you must load the WACOM mouse emulation driver before running Windows.

- 1) Insert the backup copy of your WACOM software diskette into a floppy drive.
- 2) At the system prompt, type the drive name, a colon, and the INSTALL command (for example, A:\INSTALL).
- 3) Use your keyboard arrow keys to select DOS installation. Press Enter.
- 4) Follow the instructions on the screen.

The installation program creates a WACOM directory and copies the appropriate files there. It also asks if you want to modify the AUTOEXEC.BAT file to automatically load the WMOUSE driver, and add the WACOM directory to your path.

ERASER-AWARE APPLICATIONS

ArtPad II and ArtZ II are fully compatible with all Windows applications, including your favorite business applications such as Microsoft Word, Excel, and PowerPoint. Or, use one of the many graphics applications (such as those shown below) that are eraser-aware:

Fractal Design Dabblers 2.0 & 1.1a

Support for the Erasing UltraPen is built-in. When the eraser end of the UltraPen is placed on the tablet, Dabblers will automatically switch to the eraser tool.

FutureWave SmartSketch 1.0R2 & 95

Support for the Erasing UltraPen is built-in. When the eraser end of the UltraPen is placed on the tablet, SmartSketch will automatically switch to the eraser tool.

Adobe Photoshop 3.0.4

Support for the Erasing UltraPen is built-in under Windows NT. Eraser support under Windows 95 requires the PRESSURE.8BX plugin located in the ADOBE subdirectory. Built in support for the eraser under Windows 3.1 will happen in a future release of Adobe Photoshop. When the eraser end of UltraPen is placed on the tablet, Photoshop will automatically switch to the eraser tool.

CorelPhoto Paint 6.0 Rev B

Support for the Erasing UltraPen is built-in. When the eraser end of the UltraPen is placed on the tablet, Photo Paint will erase the last stroke.

Ron Scott QFX 5.1

Support for the Erasing UltraPen is built-in. When the eraser end of the UltraPen is placed on the tablet, QFX will either undo the last paint stroke or erase with pressure.

LATE BREAKING NEWS ABOUT THE
WACOM DRIVER FOR WINDOWS

The following features in the WACOM Control Panel are not currently functional, they will be available in future releases of the driver. The new drivers can be downloaded from the WACOM BBS, Internet, America Online and CompuServe.

--- WINDOWS 3.1 ---

Context Aware: Provides eraser support for non-eraser aware programs.
Orientation: Allows you to change the orientation of the tablet.
ABS, REL Buttons: These menu strips buttons are inactive until the next release of the WACOM driver. The tablet can be switched to relative mode by setting aspect to relative in the Scaling Setup window of the WACOM control panel.

--- WINDOWS 95 ---

Orientation: Allows you to change the orientation of the tablet.
ABS, REL Buttons: These menu strips buttons are inactive until the next release of the WACOM driver. The tablet can be

switched to relative mode by setting aspect to relative in the Scaling Setup window of the WACOM control panel.

--- WINDOWS NT ---

Context Aware: Provides eraser support for non-eraser aware programs.
Menu Strip: Brings up the Menu Strip Setup Window.
Orientation: Allows you to change the orientation of the tablet.
Pointers: Brings up the Pointers Setup Window.

 KNOWN BUGS

--- WINDOWS 3.1 ---

1) If using the PC Speaker driver, be sure the interrupts are enabled. If they are disabled, the tablet may freeze. The PC Speaker Control panel is found under control panel, drivers, PC Speaker, Setup.

2) PENWIN.DLL is copied to the hard drive by the WACOM setup program. If activated, the following problems and changes occur in Windows:

- * Windows Write will not open (Out of Memory Error).
- * Drag and Drop will not function in Word 6.0.
- * The cursor disappears in the Excel edit window.
- * The input boxes in File Manager are larger.

To restore proper operation, remove 'penwindows=penwin.dll' from the [drivers] section of the SYSTEM.INI and restart.

NOTE: PENWIN.DLL is a Microsoft library.

NOTE: PENWIN.DLL must be active to receive pressure in Photoshop 3.04 or less in Windows 3.1.

3) There is a conflict between PENWIN.DLL and ATI video card drivers. If you use an ATI graphics card we recommend you remove PENWIN.DLL. If you use Photoshop please contact ATI for updated video drivers that are PENWIN.DLL compatible.

4) Relative scaling will not function with both Pen Windows and Wintab enabled. If you need to run the tablet in relative mode turn off either Pen Windows or Wintab in the Pointers screen.

5) To add Windows 3.0 mode support, edit the 'SYSTEM.INI' and change the 'mouse.driv' line to read 'mouse.driv=wacpen.driv'. Restart and check the Windows 3.0 mode box in the Preferences window.
If you are leaving your Microsoft Mouse attached, you will no longer be able to access the extended mouse features from within the Mouse control panel with Mouse driver v8.2 or above. To access the extended features of the 9.0 mouse driver, run MOUSEMGR.EXE (you usually have an icon for Mouse Manager in your Mouse group).

6) If the cursor vanishes in an application, expand the oldmouse driver from the disk to the windows system subdirectory. (ie. EXPAND A:\WIN\OLDMOUSE.DR_ C:\WINDOWS\SYSTEM\OLDMOUSE.DRV)

--- WINDOWS 95 ---

- 1) To add Windows 3.0 mode support, edit the 'SYSTEM.INI' and change the 'mouse.drv' line to read 'mouse.drv=wacpen.drv'. Restart and check the Windows 3.0 mode box in the Preferences window.
If you are leaving your Microsoft Mouse attached, you will no longer be able to access the extended mouse features from within the Mouse control panel with Mouse driver v8.2 or above. To access the extended features of the 9.0 mouse driver, run MOUSEMGR.EXE (you usually have an icon for Mouse Manager in your Mouse group).
- 2) To add Pen Services 2.0 support, edit the 'SYSTEM.INI' and add the lines 'OpenDrv16=penwindows' to the [Pen Driver] section, and 'penwindows=penwin.dll' to the [drivers] section. The Windows 95 version of the file "penwin.dll" must be located in the \SYSTEM subdirectory of Windows 95. To enable the side switch add "BarrelEvent=1" to the registry under "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Pen".
Note: Wintab support must be disabled and any pen drivers from Microsoft must be disabled.
Note: Wacom does not provide Pen Windows 2.0.

--- WINDOWS NT ---

- 1) Tilt is off by default.
- 2) There have been reports of a 'Blue Screen' crash while using the driver. Turning off the Wintab service helps. To turn off wintab32, open the control panels, click on services and change the wintab32 service to manual. Then, restart the system.
Note: Tilt is off because it may effect the frequency of the crash.

```
*****  
MODIFICATIONS TO WINDOWS  
SYSTEM.INI AND REGISTRY  
*****
```

--- WINDOWS 3.1 SETUP MODIFICATIONS ---

The Windows setup procedure makes the following changes to the system.

The following files are expanded from the WIN subdirectory on the WACOM software diskette; To the WINDOWS\SYSTEM subdirectory:

```
WACOM .CP_   -> WACOM .CPL   (Control panel)  
WACOM .DR_   -> WACOM .DRV   (Main driver)  
WACOM .38_   -> WACOM .386   (Virtual driver, Windows 3.1 only)  
WACPEN.DR_  -> WACPEN.DRV   (Windows 3.0 compatible mode)  
PENWIN.DL_  -> PENWIN.DLL   (Pressure library from Microsoft,  
Windows 3.1 only)  
WINTAB.DL_  -> WINTAB.DLL   (Pressure library)  
WINTAB32.DL_ -> WINTAB32.DLL (Pressure library)  
WTT16.DL_   -> WTT16.DLL   (Pressure library)
```

To the WINDOWS subdirectory:

```
ARTPADII.HL_ -> ARTPADII.HLP (ArtPad II Help file)  
ARTZII.HL_   -> ARTZII.HLP  (ArtZ II Help file)
```


The setup program on this disk will make the following changes to your SYSTEM.INI file.

Under the [boot] section:

```
[boot]
.
.
;oldmouse=?????
drivers=??? pen penwindows
```

The current mouse driver is copied to OLDMOUSE.DRV and the name is held in 'oldmouse'. If the mouse driver is replaced by WACPEN.DRV; wacpen will load the oldmouse driver.

The setup routine adds the words 'pen' and 'penwindows'. The previous drivers on the "drivers=" line (like mmsystem.dll) are not changed.

Under the [386Enh] section:

```
[386Enh]
device=wacom.386
.
.
.
```

NOTE: There must be no other pen drivers listed on the right side of any "device=" line in the [386Enh] section. Otherwise Windows will not boot up in enhanced mode.

Under the [drivers] section:

```
[drivers]
.
.
pen=wacom.drv
penwindows=penwin.dll
```

Setup adds a new section to your SYSTEM.INI file called [Pen Driver].

Under the [Pen Driver] section:

```
[Pen Driver]
ComPort=1
9600baud=1
```

--- WHAT TO DO IF YOU HAVE PROBLEMS AFTER ---
--- INSTALLING THE WACOM DRIVER FOR WINDOWS ---

When the Windows setup program is run, your current SYSTEM.INI file is copied to a backup file named SYSWAC.000. The filename increments each time an install is performed. In the event that after installation Windows 3.1 fails to start (i.e. returns to the DOS prompt), from your Windows directory (C:\WINDOWS) type 'copy SYSWAC.??? SYSTEM.INI'. Your settings before you ran setup will be restored and Windows should work as it did before the install. If you have any problems with installation please refer to the trouble shooting section in the manual.

--- WINDOWS 95 SETUP MODIFICATIONS ---

The Windows setup procedure makes the following changes to the system.

The following files are expanded from the WIN subdirectory on the WACOM software diskette; To the WINDOWS\SYSTEM subdirectory:

```

WACOM .CP_   ->  WACOM .CPL       (Control panel)
WACOM .DR_   ->  WACOM .DRV       (Main driver)
WACOM .VX_   ->  WACOM .VXD       (Virtual driver, Windows 3.1 only)
WACPEN.DR_   ->  WACPEN.DRV       (Windows 3.0 compatible mode)
WINTAB.DL_   ->  WINTAB.DLL      (Pressure library)
WINTAB32.DL_ ->  WINTAB32.DLL     (Pressure library)
WTT16.DL_    ->  WTT16.DLL      (Pressure library)

```

To the WINDOWS subdirectory:

```

WACOMEXT.DL_ ->  WACOMEXT.DLL   (Context Aware driver)
ARTPADII.HL_ ->  ARTPADII.HLP  (ArtPad II Help file)
ARTZII.HL_   ->  ARTZII.HLP  (ArtZ II Help file)

```

NOTE: If install is Plug-n-Play see below.

The setup program on this disk will make the following changes to your SYSTEM.INI file.

Under the [boot] section:

```

[boot]
.
.
;oldmouse=?????

```

The current mouse driver is copied to OLDMOUSE.DRV and the name is held in ';oldmouse'. If the mouse driver is replaced by WACPEN.DRV; wacpen will load the oldmouse driver.

Under the [drivers] section:

```

[drivers]
.
.
pen=wacom.drv

```

Setup adds a new section to your SYSTEM.INI file called [Pen Driver].

Under the [Pen Driver] section:

```

[Pen Driver]
ComPort=1
9600baud=1

```

The setup program on this disk adds the following sections to your registry file.

```

HKEY_CLASSES_ROOT\.wac
HKEY_CLASSES_ROOT\WACOM.Settings
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\VxD\WACOM
HKEY_USERS\.Default\Control Panel\Wacom\Eraser

```

The Plug-n-Play install adds all the above except:

The registry enteries:

```

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\VxD\WACOM

```

And it also adds:

```

HKEY_LOCAL_MACHINE\Enum\SERENUM\{tablet id}
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Class\PEN

```

--- WHAT TO DO IF YOU HAVE PROBLEMS AFTER ---

--- INSTALLING THE WACOM DRIVER FOR WINDOWS ---

When the Windows setup program is run, your current SYSTEM.INI file is copied to a backup file named SYSWAC.000. The filename increments each time an install is performed. In the event that after installation Windows 95 fails to start, from your Windows directory (C:\WINDOWS) type 'copy SYSWAC.??? SYSTEM.INI'. Your settings before you ran setup will be restored and Windows should work as it did before the install. If you have any problems with installation please refer to the troubleshooting section in the manual.

--- WINDOWS NT SETUP MODIFICATIONS ---

The following files are expanded from the WIN subdirectory on the WACOM software diskette to the WINDOWS subdirectory on your hard drive:

ARTPADII.HL_ -> ARTPADII.HLP (ArtPad II Help file)
ARTZII.HL_ -> ARTZII.HLP (ArtZ II Help file)

The following files are expanded from the WIN\NT subdirectory to the WINDOWS\SYSTEM32 subdirectory:

WACOM .CP_ -> WACOM .CPL (Control panel)
WACOM .DR_ -> WACOM .DRV (Main Installable driver)
WINTAB.DL_ -> WINTAB.DLL (16 bit Pressure library)
WINTAB32.DL_ -> WINTAB32.DLL (Pressure library)
WINTAB32.EX_ -> WINTAB32.EXE (Pressure service)
WACOMKEY.EX_ -> WACOMKEY.EXE (Keystroke service)

And these files go to the WINDOWS\SYSTEM32\DRIVERS subdirectory:

WACOM.SY_ -> WACOM.SYS (Serial tablet driver)
PENCLASS.SY_ -> PENCLASS.SYS (intermediate driver)
WTCLASS.SY_ -> WTCLASS.SYS (intermediate driver)

Setup adds all the registry entries under

HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Wacom
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Penclass
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\wtclass
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\Wintab32
HKEY_LOCAL_MACHINE\System\CurrentControlSet\Services\wacomkey

Setup also add entries under

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\EventLog
so that WACOM drivers can log system events.

Setup also adds

"pen" REG_SZ "wacom.drv"

to HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Drivers32

And setup adds "Pen Class" to the current entries in

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\ServiceGroupOrder

OBTAINING SOFTWARE UPDATES

Software updates are available for download from the following services:

America Online: Choose the GoTo menu, choose Keywords, and type WACOM.

CompuServe: Type GO WACOM at any"! " prompt.

Internet: Anonymous FTP: [ftp.wacom.com/pub/drivers/ibmpc](ftp:wacom.com/pub/drivers/ibmpc).
Worldwide Web: <http://www.wacom.com/drivers.html>.

WACOM BBS: (360)750-0638 (Modem settings 1200-14.4 Kbaud,8,N,1)

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WACOM WINDOWS MOUSE DRIVER V1.0

5-7-91 : Release v1.1
9-17-90 : Release v1.0
8-22-90 : 2nd Beta Release
7-14-90 : Major Beta Release

NOTE FOR 386 users:

Windows 3.0 will go into enhanced mode automatically if you are using a 386 chip. Unfortunately, enhanced mode has a lot of overhead that makes high speed mouse input perform poorly. Tablet messages are also lost due to poor interrupt handling.

SOLUTION: Use WIN/2 instead of WIN. This will run protected, non-enhanced mode of Windows.

Functionality:

The mouse driver supports both relative and absolute modes, as well as the pressure pen.

If absolute mode is enabled, it will map a definable area of the tablet to the screen. Outside of the absolute area, relative mode is used. There is also provision to map the absolute area into a sub-area "window" of the screen under program control.

Relative mode tracking speed can be controlled by the the standard mouse control panel.

If pressure mode is enabled, the pressure sensitivity for a left button press may be set.

Permanent settings of all parameters are saved in the WIN.INI setup file. This is done automatically by the WACOM Control Program when INSTALL is selected. They may be edited with a standard editor. Use of the Control Program is preferred.

Buttons (cursor):

1
2 4
3

Button 1 = both left and right mouse buttons

Button 2 = left mouse button

Button 3 = middle mouse button

Button 4 = right mouse button

TO install your Wacom Windows Driver

From DOS (not from inside of Windows), run Windows Setup, by changing to your Windows Directory (CD \WINDOWS), typing "SETUP", and pressing <Enter>.

Highlight the "Mouse" line on the "System Information" screen and press <Enter>.

Press the <Down> arrow key about 8 times, to go to the "Other (Requires disk provided by a hardware manufacturer)" line. Press <Enter>.

Put your "Wacom Inc., Digitizer Tablet Driver for Microsoft Windows 3.0" disk in your floppy drive, type the drive onto the screen (A:\), and press <Enter>.

Highlight the proper driver and press <Enter>. Windows will copy the driver from the floppy, and return you to the "System Information" screen. Press <Enter> to return to DOS.

The drivers on the current disk are:

WACOM COM1: For Wacom Tablets other than SD-510C using COM 1
WACOM COM2: For Wacom Tablets other than SD-510C using COM 2
SD510C COM1 For Wacom SD-510C Digitizing Tablets using COM 1
SD510C COM2 For Wacom SD-510C Digitizing Tablets using COM 2

Note: The Tablet must be set for standard settings, i.e. 9600 baud.
Tablet transmits 40 points / sec.

WACOM Control Program

The WACOM Control Program runs under Windows 3.0. It controls the settings for the WACOM Windows Mouse Driver. Users may use the Control Program to change settings for the current driver. These settings may also be "installed" as permanent options.

The Control Program should be added to the "Accessories" Menu. It can be iconized and left running throughout a Windows session, if desired.

The following options may be set:

- Pressure Pen: If this box is checked, it is assumed that a pressure pen is being used. The default value is unchecked.

CAUTION: Once set, use of the standard stylus or cursor may cause erratic switching. If there is difficulty in reversing the setting, the TAB and ENTER keys of the keyboard can be used to control the dialog.

- Sensitivity: This scroll bar determines the threshold level level for a left "button press". The range is from -32 to +32, based on the standard WACOM values. The default is -6.

NOTE: In the WIN.INI file, negative values are represented by adding 256. This will be transparent to most users.

- Enable Absolute Area: If checked, the absolute area is enabled. Otherwise, the entire tablet is relative. The default is unchecked.
- Upper Left Corner: This is the XY coordinates of the upper left corner of the absolute area. The values may be entered from the keyboard or from the tablet by the POINT button
- Height & Width: These values are for the dimensions of the absolute area. They may be entered from the keyboard or from the tablet by the POINT button. If the POINT button is used, the values will be relative to the current settings for the Upper Left Corner.
- POINT buttons: When pressed, the cursor is removed and the text windows will display values based on the actual position of the cursor or stylus on the tablet. When the left button is pressed, the data is entered and the cursor returns to normal.
- Compute buttons: The user can choose how the absolute area will be computed. It is normally desirable to have the height/width ratio of the absolute area match that of the screen. These buttons give the user the option to have the height computed from the width (default), width from height, or to use the coordinates exactly as input. In the last case, the area will be mapped to the screen, even if it is distorted.
- APPLY button: This causes the current settings in the dialog to be applied to the mouse driver
- RESET button: This causes the current settings of the mouse driver to be reflected in the dialog box.
- INSTALL button: This "applies" the dialog settings to the mouse driver and also updates the WIN.INI file.

To Install:

- Copy WCTL.EXE to the WINDOWS directory (eg: C:\WINDOWS).
- Run Windows
- Select "Main" Window of Program Manager".
- Select "New" option of "Files" pull-down.
- Enter "C:\WINDOWS\WCTL" for the command line window.

NOTE: The WACOM Windows Mouse Driver should be previously installed. WCTL will simply "exit" without it.

PROGRAM CONTROL of MOUSE DRIVER

The file "tablet.h" is include for access of the tablet by C programs. It contains procedure declarations and definitions for two structures.

The first structure, TDATA, describes a record of tablet data information. This includes the absolute X and Y from the tablet, the current button/pressure readings along with information about whether the pen is on the tablet, whether a cursor or stylus is used and the setting of the pressure mode switch.

The second structure TPARMS, contains tablet control parameters. They are the same as described earlier. There are also some special parameters used for mapping the absolute area to a part of the screen. The screen position will be computed as follows:

$$\text{screen_x} = (\text{tab_x} - \text{xcorner} + \text{xoffset}) * \text{screen_width} / \text{xdivisor}$$
$$\text{screen_y} = (\text{tab_y} - \text{ycorner} + \text{yoffset}) * \text{screen_height} / \text{ydivisor}$$

where "tab_x" and "tab_y" are the absolute tablet coordinates. Normally, setting "xoffset" and "yoffset" are set to zero and "xdivisor" and "ydivisor" are set to "awidth" and "aheight", which maps to the entire screen.

The following routines are used to control the tablet:

```
TDATA Tablet_Data;  
TPARMS Tablet_Parms;  
GetTabletData (&Tablet_Data);  
GetTabletParms (&Tablet_Parms);  
SetTabletParms (&Tablet_Parms);
```

The first routine retrieves tablet data into the named structure area. The other two retrieve or set the tablet parameters from the named structure area.

To use the above routines, the following must be included in ".DEF" file of the Windows application:

```
IMPORTS  
GetTabletData = MOUSE.5  
GetTabletParms = MOUSE.6  
SetTabletParms = MOUSE.7
```

□

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LICENSE AGREEMENT AND LIMITED WARRANTY
(continued)

WACOM's sole obligation and entire liability under this warranty shall be, at WACOM's option, either 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 OF ANY KIND, EITHER EXPRESS 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, 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. YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

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 and the State of New York.

This Limited Warranty shall not apply to any product purchased outside the United States, its territories, or possessions.

Should you have any questions about this Agreement, or if you desire to contact WACOM for any reason, please contact in writing: WACOM, Inc., West 115 Century Road, Paramus, New Jersey, 07652.

Wacom Super Digitizer Registration Card

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Company _____

Address _____

City, St, Zip _____, _____, _____

Country _____ Phone _____

Date of Purchase: _____

Store Name _____

*Model SD-510C SD-422 SD-322L SD-312E
 SD-420E SD-320L SD-310E SD-210L
 SD-421E SD-321L SD-311

*Serial # _____

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Which Graphic Software Programs Do You Primarily Use?

* MODEL AND SERIAL NUMBER REQUIRED TO PROPERLY REGISTER YOUR WARRANTY



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