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# HARDWARE INSTALLATION

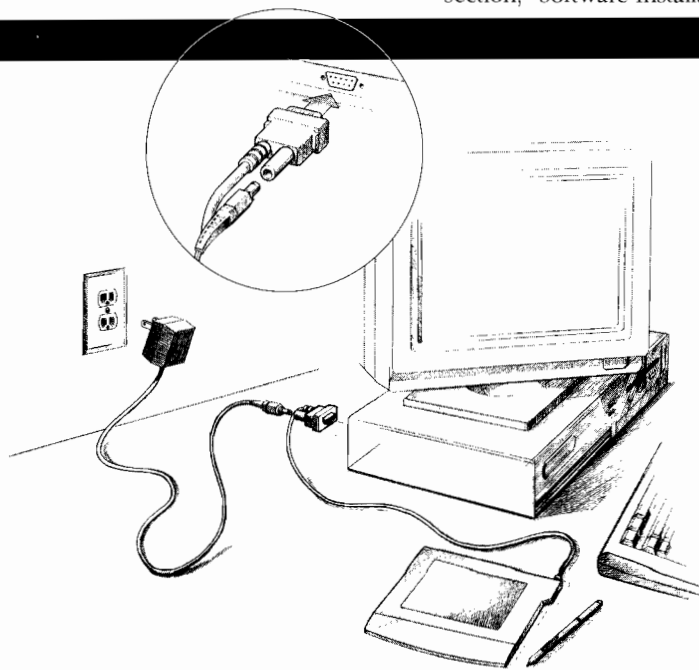
To install your WACOM tablet, install the hardware first and then install the software. Close all open applications and turn off your computer. Then follow these steps.

Connect the AC power cable to the ArtPad II cable.

Connect the ArtPad II cable to a serial communications port.

Before plugging in the AC power adapter check that the input voltage on the power adapter matches the voltage of your power outlet. Then connect the power adapter to your AC outlet or power strip.

Turn on your computer. Proceed to the next section, "Software Installation Made Easy."

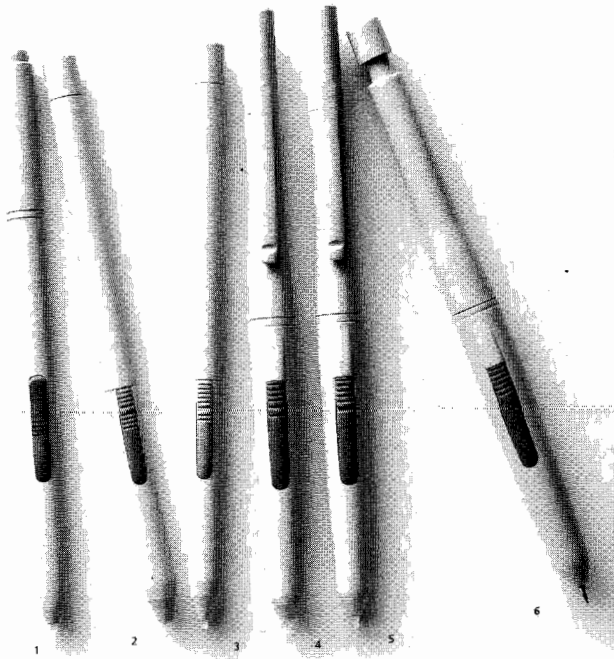


If your computer has a 25-pin communications port, you'll need to use the 9- to 25-pin adapter that came with ArtPad II.

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IMPORTANT

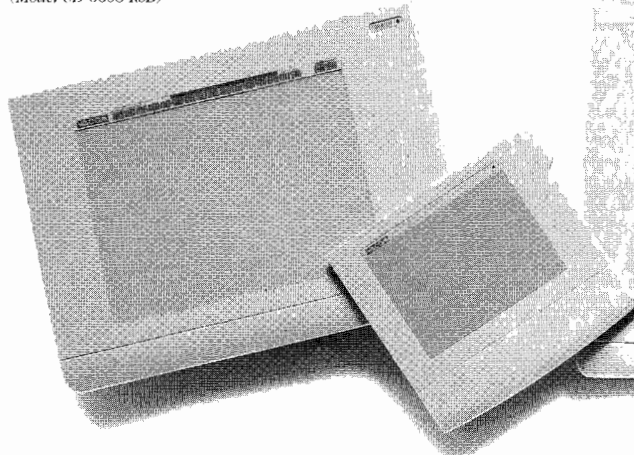
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# INVENTIVE TOOLS FOR THE TIMELESS ART OF EXPRESSION

- ▲
- 1 Erasing UltraPen  
with DuoSwitch  
*(Model UP-801E)*
- 2 Point and Click UltraPen  
*(Model UP-241)*
- 3 Handwriting UltraPen  
*(Model UP-211)*
- 4 WideBody UltraPen  
with Ink *(Model UP-401)*
- 5 WideBody UltraPen  
with SmoothStroke  
*(Model UP-421)*
- 6 WideBody UltraPen with  
Pencil *(Model UP-501)*

ArtZ II 6 x 8 Serial Tablet  
*(Model UD-0608-RSB)*

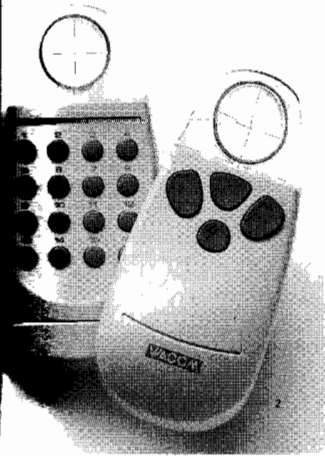


ArtZ II 12 x 12 Serial Tablet  
*(Model UD-1212-RSB)*

ArtPad II 4 x 5 Serial Tablet  
*(Model KT-0405-RNB)*

5-Button Puck (Model UC-620)

4-Button Puck (Model UC-520)



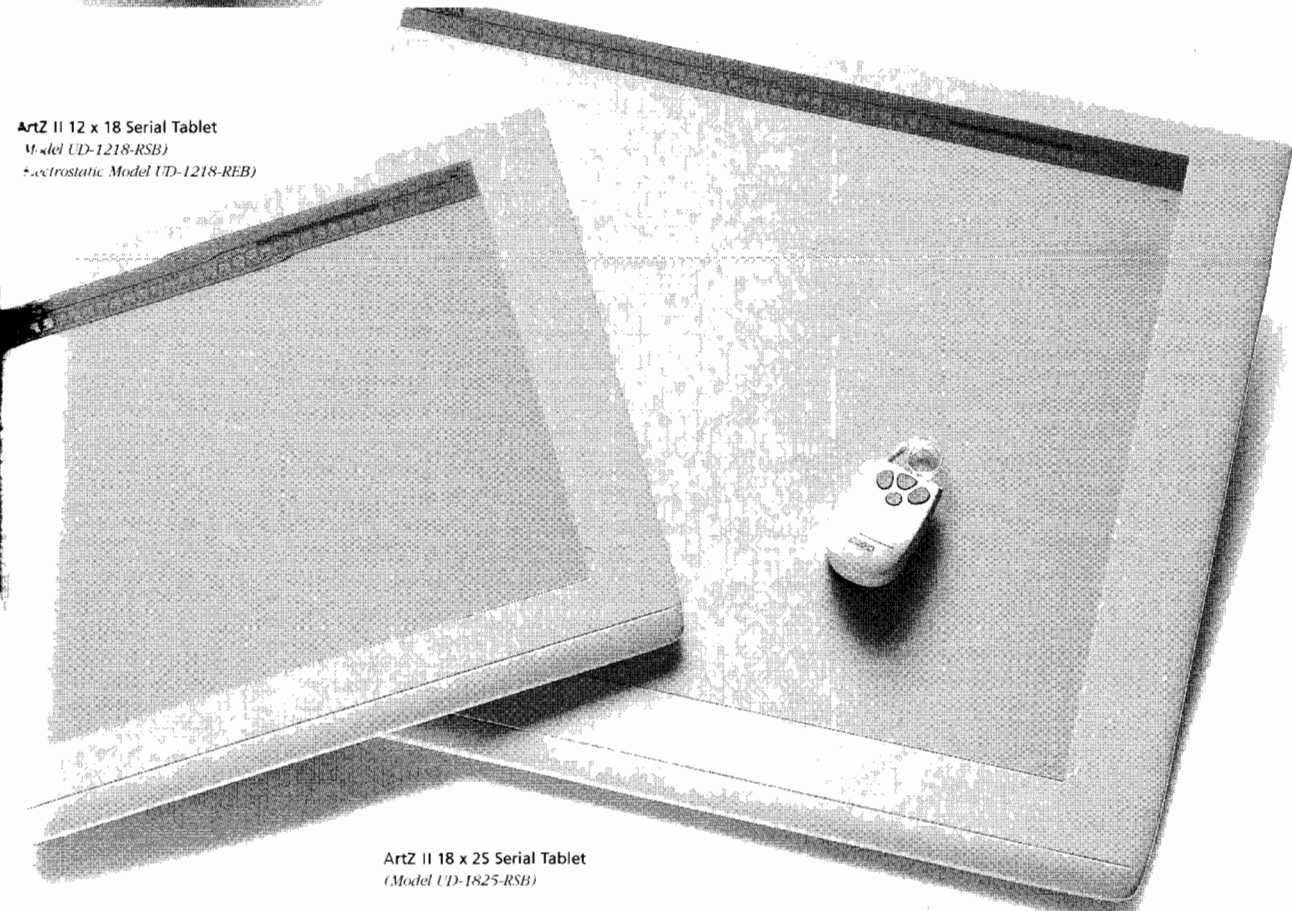
The WACOM portfolio of graphic tablets and accessories. A new generation of electronic graphic tablets, pens, and pucks created to serve the artist in us all.

Hold the small ArtPad in the palm of your hand to illustrate ideas, jot down thoughts or take notes naturally and easily. Or choose an ArtZ II to design, illustrate, or edit imagery with superior precision and intuitive ease.

UltraPens and pucks give you freedom, control, and flexibility to expand your creative vision. Cordless, batteryless, and pressure-sensitive, your new drawing tools translate the art of expression. Easily. Elegantly. Perfectly. The WACOM portfolio of tablets and pens: the natural selection of graphic tools bound *only by your imagination.*

ArtZ II 12 x 18 Serial Tablet  
(Model UD-1218-RSB)  
Electrostatic Model UD-1218-REB)

ArtZ II 18 x 25 Serial Tablet  
(Model UD-1825-RSB)



# ACCESSORIES

To order additional pens and other accessories, refer to the Accessories Sheet that came with ArtPad II.

## ARTZ II GRAPHIC TABLETS

### **ArtZ II 6 x 8 Serial** (UD-0608-RSB)

Increase your precision and drawing ease with a laptop-size tablet. Accommodates any WACOM UltraPen and the 4-button puck. Designed for graphic designers, art directors, and other professional artists who need computerized graphic tools, but don't have space for a larger tablet.

### **ArtZ II 12 x 12 Serial** (UD-1212-RSB)

A desktop-size tablet for greater freedom of movement required by many pre-press artists, illustrators, page layout artists, and designers. Provides generous tracing area and supports both WACOM pucks.

### **ArtZ II 12 x 18 Serial** (UD-1218-RSB)

#### **ArtZ II 12 x 18 Electrostatic** (UD-1218-REB)

An ideal workstation graphic tablet that gives professionals room to work with greater ease. Also available with electrostatic mat that holds images for tracing. The tablet of choice for many graphic artists, pre-press engineers, industrial designers, and modelers.

### **ArtZ II 18 x 25 Serial** (UD-1825-RSB)

An industrial-sized graphic tablet with room for full newspaper-size formats. Fits the needs of professionals such as architects, designers, modelers, animators, CAD engineers, and video production engineers.

### **Erasing UltraPen with DuoSwitch** (UP-801E)

Designed for a natural, well-balanced feel with more precision and flexibility than your favorite artist's tool. This pressure-sensitive pen is an all-purpose tool to use for drawing, erasing, or feathering. The easy-to-use, rocking side-switch gives you two programmable buttons for double the functionality as you work.

### **WideBody UltraPen with Ink** (UP-401)

Gives immediate feedback on what you're drawing at your pen tip and your computer screen. Pressure-sensitive pen comes with inking cartridges and two polyacetal tips for inkless drawing. Slightly wider barrel is preferred by people who like a heftier drawing tool.

### **WideBody UltraPen with SmoothStroke** (UP-421)

Designed for the artist who requires a combination of visual and tactile feedback. The tip retracts slightly as the pen is pressed.

### **WideBody UltraPen with Pencil** (UP-501)

A pressure-sensitive, wide-body pen that works just like a mechanical pencil. Click the top to advance lead. Gives immediate feedback on what you're drawing at your pen tip as well as your computer screen. Uses fine 0.5 mm lead.

### **Handwriting UltraPen** (UP-211)

Extra sensitivity makes this pen ideal for handwriting recognition software. Provides for highly accurate signature verification and character recognition. So reliable and effective, it's the pen many major manufacturers use for their notebook computers. Comes with five polyacetal replacement tips and pocket clip.

### **Point and Click UltraPen** (UP-241)

Crafted for work where the pen is primarily used as a pointing device. Use this non-pressure sensitive pen with templates or in menu-picking. It gives a very distinct "click" when you press down on the pen tip.

*(Not available with ArtPad II)*

### **4-Button Puck** (UC-520)

Ergonomically designed for precise control and ease of use, this puck is popular for precision tracing, digitizing drawings, and CAD processes. Cordless and batteryless, the puck offers complete flexibility of movement, while its functional shape allows for a natural hand position that lets you use it comfortably and accurately all day. Each button can be programmed for specific functions.

### **16-Button Puck** (UC-620)

The same accuracy and freedom of movement as the 4-button model, but with 16 programmable buttons. Each button may be customized with any functions your software allows.

# TROUBLESHOOTING

ArtPad II power light is not on.	Make sure you are using the AC power adapter that came with the WACOM tablet and that it is plugged into an active wall outlet and is securely connected to the ArtPad II cable. Refer to page 6 for illustrated instructions. If the power light still doesn't turn on, you may have either a defective power adapter or tablet. See "Obtaining Technical Support" on page 42.
Drivers load properly but the tablet and pen don't function.	Run WTEST, then try running the program again. Refer to "Testing the Tablet" on page 36.
Pen selects everything, won't stop drawing.	If this occurs in Windows, try increasing the Click Pressure setting in the WACOM control panel. Select the Tip Pressure icon and move the slider toward Heavy.  Run the WTEST program to test the pen. Refer to "Testing the Tablet" on page 36.
The tip or side switch doesn't function.	Run the WTEST program; check for proper pen function. Make sure the power light turns green when the tip or side switch is pressed. If it doesn't, you may have defective hardware; see "Obtaining Technical Support" on page 42.
Double-clicking doesn't work.	Make sure you are quickly tapping the tablet twice on the same screen pixel. Review the technique in "Clicking" on page 17.  Try increasing the Double Click Distance. Refer to "Make Double Clicking Easier" on page 22.  Try using a lighter Click Pressure. Refer to "Adjust the Tip Pressure Sensitivity" on page 23.  Make sure the double-click speed in the mouse control panel is not set too fast.
The side switch doesn't work.	Make sure you press the side switch when the pen tip is in proximity—don't tap the tablet at the same time.  From the WACOM Tablet control panel Pen Setup box, verify that the side switch is set to the proper function.  Make sure the ArtPad II power light turns green when you press the side switch. If it doesn't, you may have defective hardware; see "Obtaining Technical Support" on page 42.

Can't move the pointer where you want to on the screen.	Go to the WACOM Tablet control panel and click the Scaling icon, then set the display to Entire Display.
When drawing on the tablet, the image on the screen appears stretched.	In the WACOM Tablet control panel, click the Scaling icon, then in the Aspect box, select the Proportional option.
When drawing on the tablet, the image on the screen is a different size.	In the WACOM Tablet control panel, click the Scaling icon, then in the Aspect box, select the One To One option.
Windows 3.1 returns you to the DOS prompt.	Check the SYSTEM.INI file for a duplicated line, DEVICE = WACOM.386, in the [386Enh] section. If a duplicate exists, remove it.
ArtPad II doesn't work in Windows.	Make sure the driver is turned on: click the Preferences icon in the WACOM control panel and make sure the Driver On option is selected.
In Windows 3.1, Write no longer works and the error "Not enough memory for Write to complete this operation" displays.	Go to the WACOM control panel and click the Preferences icon, then turn off the Pen Services compatible option.
Instead of the arrow pointer, you see a pointer that looks like a pen.	This means Pen Services compatible mode is set on in the WACOM control panel Preferences screen.
After installing the WACOM driver, the cursor disappears in some applications.	<p>This occurs when a mouse is replaced with the tablet and the mouse driver was not removed. To solve this problem follow the procedure below:</p> <p>Insert the WACOM Driver disk into the floppy drive.</p> <p>From the DOS prompt in your Windows sub-directory type:</p> <p><b>EXPAND A:\WIN\OLDMOUSE.DR_ C:\WINDOWS\SYSTEM\OLDMOUSE.DRV</b></p> <p>Then edit your system.ini file and change the mouse.drv line in the [boot] section to:</p> <p>mouse.drv=oldmouse.drv</p> <p>Restart Windows for these changes to take effect.</p>

## CO-SPECIFIC PROBLEMS

Installing from DOS failed.

Manually copy the WMOUSE.COM file from the WACOM driver disk to your hard disk drive.

1. Type: **COPY A:\WMOUSE.COM C:\**

2. Edit the AUTOEXEC.BAT file and add the line: **WMOUSE**.

---

ArtPad II does not work in DOS.

From the directory where the WMOUSE.COM file is located, type WMOUSE. This will make sure the driver is loaded and that a tablet can be found.

If you get the message, "A mouse driver is already loaded," you have another mouse driver installed. Unload any other mouse driver from memory by removing the driver from the CONFIG.SYS or AUTOEXEC.BAT file and rebooting your computer.

If you get the message, "A tablet was not found," the tablet may not be connected to an active com port or there may be a conflict with another com port. See "Testing the Tablet" on page 36.

---

## COMMON PROBLEMS

After installing the WACOM driver, WACOM and Serial error messages appear in event viewer.

Some Serial Port and WACOM error messages will be generated, when NT is starting up, and the WACOM driver is loading. These are debugging messages. Please ignore them, they are normal.

---

## TROUBLESHOOTING

In Adobe Photoshop or other drawing application, you notice a screen delay while drawing lines on the tablet.

From the Pen Setup box, turn off Double Click Assist.

---

In Adobe Photoshop or Adobe Illustrator, you have to press hard before the pen will start to draw.

In the Tip Pressure Setup box, set Click Pressure to the minimum setting (5%).

---

In paint applications, the line you are drawing doesn't line-up with the location of the pointer.

Exit the application and open the WACOM Tablet control panel. Select the Scaling icon and set the scaling to Entire Display.

---

# APPENDIX A.

## USING THE TABLET IN DOS

The WACOM mouse emulation driver allows you to use your tablet and pen with DOS programs running under real mode DOS (not an emulated DOS shell) and in a DOS shell running under Windows 3.1. WMOUSE.COM must be installed before running Windows 3.1 to work as a mouse pointer under a Windows 3.1 DOS shell. WMOUSE.COM cannot be run from within a DOS shell of Windows.

You should not install WMOUSE.COM if you are using Windows 95 or NT; the tablet and pen will automatically function in a DOS shell when the Windows drivers are installed. The WACOM mouse driver allows you to configure the pen for absolute positioning or relative positioning (like a mouse), enable or disable the driver, and select the com port used by the tablet.

If you ran the installer program and told it to load the WACOM mouse driver at startup, you're ready to use the tablet and pen in all DOS programs that support a mouse.

If you ran the installer program and didn't tell it to load the WACOM mouse driver at startup, you can manually load WMOUSE from the system prompt.

Go to the WACOM subdirectory where the WACOM drivers are installed. For example, type **CD \WACOM**.

Type **WMOUSE**. If the program successfully finds the tablet on com 1, for example, you'll see the message:

```
Model KT-0405-R Tablet detected on Com 1.  
WACOM mouse driver V5.1 successfully  
loaded. Absolute pointing mode.  
Copyright WACOM CO., LTD. 1989-1995
```

You don't have to specify the com port number for the tablet when loading the WACOM mouse driver—the driver will automatically search all com ports for you. However, if the tablet is not found and the com port was not specified, the WACOM mouse driver will be installed on com port 1.

If another mouse driver is loaded, you'll see the error message:

```
WACOM driver failed to load because another mouse  
driver is already installed.
```

Unload the other mouse driver from memory by removing the driver from the **CONFIG.SYS** or **AUTOEXEC.BAT** file and reboot your computer.

If your computer can't find the tablet, you'll see the error message:

```
A WACOM Tablet was not detected.  
WACOM mouse driver V5.1 connected to COM 1.
```

Check the following:

- Verify the tablet power light is on.
- Make sure the cable is securely connected to the computer.
- Refer to "Testing the Tablet" in on page 36 for more information.

A forward slash followed by a command option can be added to the command line to customize the tablet and pen operation. The available options are described in the following table. You can add multiple command options to the command line; however, each option must be preceded by a space and a forward slash. Either uppercase or lowercase letters can be used. For example, if you type **WMOUSE /R**, the WACOM mouse driver will load (if not already loaded) and the pen will be configured for relative positioning. You'll see the line, "Relative positioning mode."

The pen will default to absolute positioning if no options are given. Make sure your tablet is not using a com port that shares an IRQ line with another device. If you want to use both a tablet and a modem, make sure the tablet is not sharing an IRQ line with the modem.

COMMAND VARIABLE	DEFINITION
------------------	------------

	In this "pen-like" pointing mode, the pointer jumps to an exact location on the screen as determined by the position of the pen on the tablet. This is the default setting.
--	---

	This is useful when you want to disable the WMOUSE driver without removing it from memory, for example to free a communications port for DOS applications with built-in drivers that access the tablet directly.
--	--

	This is useful when you have previously disabled the WMOUSE driver and now want to enable it again.
--	---

	With this command you can change the communications port used by the tablet. The WACOM mouse driver will search on this com port first.
--	---

	If you're more comfortable with the pointer response of a mouse, you can program your pen to the typical "pick up and roll" movement of a mouse.
--	--

	This option is useful when you want to remove the WMOUSE driver from memory, thus freeing memory space without restarting your computer.
--	--

	Displays this list of available options.
--	--

# APPENDIX B.

## AUTOCAD RELEASE 13 CONFIGURATION

You can configure ArtPad II for use with AutoCAD Release 13 for Windows or DOS. Included on your WACOM Tablet driver disk is a Wintab Compatible driver for Windows and the version 4.2 protected-mode ADI driver for DOS. If you use Windows, proceed to the next section “Release 13 for Windows.” If you use DOS, skip to the section “Release 13 for DOS.”

### CONFIGURING WINDOWS

After you install ArtPad II for Windows, it will function as your AutoCAD system pointing device. You can use ArtPad II as a drawing and navigation tool in AutoCAD—without any further configuration. However, if you want to use ArtPad II to digitize drawings to proper scale, you'll need to configure AutoCAD and calibrate the tablet.

Setting up the tablet for AutoCAD involves configuring AutoCAD for a Wintab Compatible tablet. If you want to configure a screen pointing area and a template area on your tablet, refer to the AutoCAD online help facility or the AutoCAD Release 13 Installation Guide for Windows manual. However, due to the small size of ArtPad II, WACOM suggests leaving the entire tablet area configured as your drawing area.

If you're starting AutoCAD for the first time, AutoCAD will perform an initial configuration and ask for hardware information. From the displayed list of available digitizers, type the number for the Wintab Compatible Digitizer and accept the default options. If AutoCAD has already been installed, you'll need to reconfigure AutoCAD for a WACOM tablet by following these steps.

Start AutoCAD for Windows.

From the Drawing Editor, open the Options menu and select Configure.

From the Configuration window, select option #4 Configure digitizer.

Type **Y** to select another digitizer.

From the list of available digitizers, type the number of the Wintab Compatible Digitizer.

Type **0** (zero) to exit to the drawing editor and then type **Y** to keep the configuration changes.

Decide from which device AutoCAD will accept input: ArtPad II or both ArtPad II and your mouse. From the Drawing Editor, open the Options menu and select Preferences. Select the System tab and choose an option from the Digitizer Input section.

- **Digitizer.** The AutoCAD drawing editor only accepts input from ArtPad II.
- **Digitizer/Mouse.** The AutoCAD drawing editor accepts input from both ArtPad II and your mouse, which controls the Windows system pointer.

If you are using ArtPad II to digitize a small drawing, you'll need to calibrate ArtPad II with the paper drawing's coordinate system. The purpose of the calibration is to allow you to digitize points from the paper drawing into the appropriate coordinate system of your drawing file.

From the Drawing Editor, open the Options menu and choose Tablet.

Digitize point #1 on the paper drawing. Then enter the XY coordinate from the paper drawing at the digitized point.

Digitize point #2 on the paper drawing. Then enter the XY coordinate from the paper drawing at the digitized point.

Digitize more points if necessary. More than four points may take more time than expected for AutoCAD to compute the best-fitting projective transformation.

Press Return to end.

After ArtPad II has been configured as a digitizer and calibrated, you can use Ctrl + T to toggle between using ArtPad II as a digitizer and as a Windows system pointer (Tablet On and Off). This completes the configuration and calibration of ArtPad II for AutoCAD Release 13.

Setting up the tablet for AutoCAD involves installing the ADI 4.2 Protected-mode driver for ArtPad II. If you want to configure a screen pointing area and a template area on your tablet, refer to the AutoCAD online help facility or the *AutoCAD Release 13 Installation Guide for DOS* manual. However, due to the small size of ArtPad II, WACOM suggests leaving the entire tablet area configured as your drawing area.

Copy the DGPWACU.EXP file from the WACOM Tablet disk's ADI sub-directory to  
C:\ACADR13\DOS\DRV.

This is the AutoCAD default location of protected-mode ADI drivers.

Set the environment variable with the command

```
SET ACADDRV= C:\ACAD\DOS\DRV.
```

You can include this set command in your AUTOEXEC.BAT or ACADR13.BAT batch file, or enter it manually prior to each start of AutoCAD. Refer to your AutoCAD manuals for placing the driver in non-default directories.

Start AutoCAD and select Config: from the Options menu or type **CONFIG**.

Press Return to continue, then select the Configure Digitizer option and type **Y** to choose a new digitizer.

Select the option, **ADI 4.2 driver for WACOM UD-Series**, from the displayed list. Then follow the screen prompts to configure the driver. The following steps explain each of the different options.

Select the language you want to use during configuration.

Select the tablet model **ArtPad II (absolute)** from the list of supported models. Most AutoCAD users set up their tablets for absolute positioning, but you can also specify mouse-like relative positioning.

You can choose to operate the tablet in polled mode or interrupt-driven mode. To use interrupt-driven mode, the interrupt line must be enabled on your serial port. This usually is done by setting the appropriate jumpers on your serial port card. COM1 should be set for IRQ4 and COM2 for IRQ3. If you don't know how your IRQ lines are configured or if your serial port shares an IRQ line with another device, select option **#2**, Polled Mode.

The Detailed Setup option selects some options that are not commonly used. Accept the default by typing **N**. If you want to use the Detailed Setup, refer to the section on the next page, "To use detailed configuration options," for an explanation of the detailed setup options.

When prompted for the type of cursor, press **Enter**. The 3 Buttons option for using a pen is selected.

Finally, AutoCAD will ask you which serial port your tablet is using. Enter **COM1** or **COM2** or their hexadecimal address.

---

**I M P O R T A N T**

---

Save your configuration settings upon exiting to the Drawing Editor.

### *To calibrate ArtPad II in DOS*

If you are using ArtPad II to digitize a small drawing, you'll need to calibrate ArtPad II with the paper drawing's coordinate system. The purpose of calibration is to digitize points on the drawing and map them to their real coordinates without regard to the actual tablet points.

- 1 From the Drawing Editor, open the Options menu and choose Tablet.
- 2 Digitize point #1 on the paper drawing. Then enter the XY coordinate from the paper drawing at the digitized point.
- 3 Digitize point #2 on the paper drawing. Then enter the XY coordinate from the paper drawing at the digitized point.
- 4 Digitize more points if necessary. More than four points may take more time than expected for AutoCAD to compute the best-fitting projective transformation.
- 5 Press Return to end.

After ArtPad II has been configured as a digitizer and calibrated, you can use Ctrl + T to toggle between using ArtPad II as a digitizer and for normal screen pointing. This completes your installation, configuration, and calibration of ArtPad II for AutoCAD Release 13.

### *To use detailed configuration options in DOS*

The detailed setup dialog box offers options for the click pressure threshold, re-initialization after a shell command, and tablet orientation. The driver will prompt you about the following settings.

- **Pressure threshold.** Determines how hard you have to press on the pen tip to register a mouse click. The higher this value is set, the more pressure you have to apply to click with the pen tip. Within the possible range from 0 to 100, find a value that lets you work most comfortably.
- **Auto re-initialize.** As a default, the tablet is re-initialized whenever you return from a shell command to AutoCAD. Since using the tablet in a DOS program (for example with WMOUSE) will change the tablet settings, the driver has to re-initialize the tablet upon returning to AutoCAD. You can disable this option.
- **Tablet orientation.** Lets you choose the way you position the tablet on your desk. If you answer yes, the driver will prompt you for the lower left corner of your working area. Position the tablet on the desk in the usual way with the WACOM logo readable on the top, then make your choice.

# APPENDIX C. PRODUCT SPECIFICATIONS

110001 1 87 0752074797417720

(Model KT-0405-RNB)

Active area (W x D)	128.0 x 96.0 mm (5.04 x 3.78 in)
Physical size (W x D x H)	191.0 x 175.0 x 7.0 mm (7.52 x 6.89 x 0.27 in)
Cable length	1.8 m (6.0 ft)
Power consumption	1.2 watts
Power supply	DC 12V 200mA
Weight	400 g (.9 lb)
Input current	100 mA
Resolution	2540 lpi/100 lpmm
Accuracy (overall with pen)	0.5 mm (.02 in), maximum
Pressure levels	256 levels
Maximum reading height	5 mm (.2 in)
Maximum report rate	205 points per second
Origin position	Upper left
Communication interface	RS-232C Serial
Connector	9-pin, D-sub, female
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-10° C to +60°C (14°F to 140°F)
Operating relative humidity	20% to 80% noncondensing
Storage relative humidity	20% to 90% noncondensing
Certification	FCC class B, VCCI class 2, TÜV-RFI CE (EMC) with 220V version only



110001 1 87 0752074797417720

(Model UP-801E)

Side switch color	lilac
Pen tip travel	0.1 mm (0.004 in) or less
Eraser tip travel	2.0 mm (0.079 in)
Physical size (L x D)	140.5 x 9.0 mm (5.53 x 0.35 in)
Weight	10 g (0.36 oz)
Tip refill type	polyacetal (Part no. PSI-A007)

(Model UP-401)

Side switch color	lilac
Pen tip travel	0.1 mm (0.004 in) or less
Physical size (L x D)	148.0 x 11.4 mm (5.83 x 0.45 in)
Weight	11 g (0.39 oz)
Tip refill type	polyacetal (Part no. PLD-4)

*Model UP-421 with 3.5mm USB-A*

*(Model UP-421)*

Side switch color	slate grey
Pen tip travel	1.0 mm (0.039 in) approx
Physical size (L x D)	148.0 x 11.4 mm (5.83 x 0.45 in)
Weight	11 g (0.39 oz)
Tip refill type	polyacetal (Part no. PLD-4)

*Model UP-421 with 3.5mm USB-A*

Black	Zebra, Part no. 4C Black (PLD-BLK)
Blue	Zebra, Part no. 4C Blue (PLD-BL)
Red	Zebra, Part no. 4C Red (PLD-RD)

*Model UP-501 with Pencil*

*(Model UP-501)*

Side switch color	lilac
Pen tip travel	0.1 mm (0.004 in) or less
Physical size (L x D)	148.0 x 12.0 mm (5.83 x 0.47 in)
Weight	11 g (0.39 oz)
Tip refill type	0.5 mm lead refill

*Model UP-211 with UltraPen*

*(Model UP-211)*

Side switch color	coral
Pen tip travel	0.1 mm (0.004 in) or less
Physical size (L x D)	140.0 x 9.0 mm (5.51 x 0.35 in)
Weight	8 g (0.28 oz)
Tip refill type	polyacetal (Part no. PSI-A007)

*Model UP-241 with Pencil*

*(Model UP-241)*

Side switch color	sage green
Force to activate tip switch	150 g or less
Pen tip travel	0.5 mm
Physical size (L x D)	140.0 x 9.0 mm (5.51 x 0.35 in)
Weight	8 g (0.28 oz)
Tip refill type	polyacetal (Part no. PSI-A007)