INTERACTIVE PEN DISPLAY

DTI-520

User's Guide

용자 가이드 使用手冊



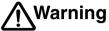






Safety Precautions

The following symbols appear throughout this user guide in order to ensure safe use of the DTI-520 (hereafter referred to as "DTI-520," "the product" or "this product"). Please read these items carefully and always heed the Warning and Caution items when using your DTI-520.



Warning This symbol indicates an item that, if ignored when handling the product, could lead to the loss of life or serious injury.



Caution This symbol indicates an item that, if ignored when handling the product, could lead to injury or damage to personal property.

Meanings of Symbols:



Indicates that it is important to be careful when taking the action or actions noted.



Indicates that the action or actions noted are to be avoided.



Indicates it is important to take the action or actions noted.

Warning

■ Do not use the product in a facility control system that requires an extremely high level of reliability.

This product may cause other electronic devices to malfunction, or other devices may cause this product to malfunction.



■ Turn this product off in places where the use of electronic equipment is prohibited.

In airports, hospital intensive care units and other such places where the use of electronic equipment is prohibited, this product may adversely affect the operation of other electrical devices. In order to prevent this, when in such locations, always disconnect the product's USB connector from your computer and turn off the switch.



Do not open the back cover.

Inside this product there are several high-voltage parts. Persons other than professional service personnel should never open the back cover of this product. Unauthorized opening of the back cover may lead to fire or electric shock.





■ When this product ceases to operate normally due to being dropped or a similar cause, remove the power source cable from the electrical outlet.

Leaving the power cable connected may result in fire or electric shock.



Regarding the power plug and power adapter.

-Please remove dust from the power plug regularly. The addition of moisture, etc. to accumulated dust may lead to



-Please do not use any power adapters other than those included with the product. Ignoring this warning may result in fire or product failure.



-Please do not damage or forcibly bend or bundle the power adapter cord. Also, please do not place heavy objects on it or expose it to excessive heat. Ignoring this warning may result in fire, electric shock or product failure.



-In the unlikely case that the power adapter should produce smoke or a strange odor, please disconnect it from the wall outlet and return it to either the store where you purchased it or to the Wacom office in your region for repair service.



-Please do not connect or disconnect the power adapter with wet hands. Ignoring this warning may result in electric shock or malfunction.



-Please do not open or otherwise change the power adapter. Ignoring this warning may result in fire or electric shock.

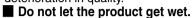




⚠ Caution

■ Do not use organic solvents to clean this product.

When cleaning the product, never use such organic solvents as alcohol. Such solvents may cause discoloration and deterioration in quality.

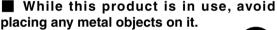


Please do not place containers such as cups and vases containing water near the product. Coming in contact with water or other liquids may cause product failure.



When cleaning this product, always disconnect the USB connector.

When cleaning the product, always disconnect the USB connector from the USB port of the computer. Failure to do so may result in electric shock.



Do not place any metal objects on the product while you are using it. This may result in malfunction or product failure.



■ Do not touch any liquids that may be leaking from this product.

The liquid contained in the product is an irritant. In the unlikely case that such liquid should leak, never touch it with bare hands. In case of contact with skin, mouth or eyes, rinse immediately with running water and continue rinsing for 15 minutes or longer. Also consult a physician.



Do not use excessive force with the cable.

Please do not step on, or place heavy objects on any of the product's cables. Also, do not apply excessive force to the base of the cable or repeatedly bend and stretch it, as this may cause it to break or malfunction.



■ Do not place the product on unstable surfaces.

Do not place the product where it is likely to totter, lean or be exposed to strong vibrations. Doing so may lead to the product falling, resulting in injury and/or product failure.



■ Do not place heavy objects on the product.

Do not put excessive weight, or place heavy objects on the product. These actions may cause product failure.



When connecting the power plug

When plugging the power adapter into an electrical outlet, also connect a grounded wire.



■ When not using this product for a long period of time

For safety reasons, when you will not be using the product for a considerable length of time, disconnect the power adapter from the electrical outlet.



■ Do not use this product in a dusty environment.

Dust can cause damage to the product.



■ Do not block the ventilation holes on the backside of the product.

Blocking these holes may cause internal overheating and subsequent damage.



■ Do not pick up the product by its stand.

If excessive force is used in handling the stand, its open and close function may become damaged. When picking up the product, always pick it up by the body.



■ Regarding the Pen

-Do not strike hard objects with the Pen. Doing so may cause damage to the product.



-Be careful to not allow small children to put either the pen or the spare nib into their mouths. There is the danger that the nib or side switch may be accidentally swallowed or that the grip pen may be damaged.



■ Do not place the product in either very hot or very cold places.

Do not place the product in very hot (35 degrees centigrade or more) or very cold (5 degrees centigrade or less) locations. Also, avoid placing it in locations with severe temperature fluctuations as this may adversely affect the product and cause product failure.



■ Do not disassemble the product.

Do not disassemble or modify the product, as these actions may lead to fire, excessive generation of heat, electrical shock or injury. The guarantee on the product will become null and void if the product is ever disassembled.





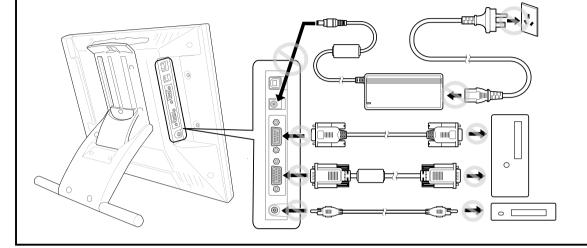


⚠ Caution

■ Do not connect or disconnect any cable while the product or your computer is on.



Do not connect or disconnect any cable (including the USB cable) or the power adapter while your computer or this product is turned on. This may cause damage to the product or to your computer.







UM-0314(A)_EN.indd 3 2007/11/12 16:53:09



Please take the following precautions to protect the health of your eyes.

- When using the product, make sure that the room is sufficiently illuminated and be careful not to get your face too close to the screen.
- Take regular breaks when using the product over an extended period of time.

Warranty Exclusions

- Wacom will not bear any responsibility for damage caused by fire, earthquake, accidents caused by third persons, intentional or accidental abuse by the customer or any other damage caused by abnormal use of the product.
- Wacom will not bear any responsibility for contingent damages (such as loss of business profits, suspension of operations, alterations to and disappearance of data, etc.) caused by use of, or inability to use, this product.
- Wacom will not bear any responsibility for damage resulting from the use of this product in a fashion other than as explained in this user guide.
- Wacom will not bear any responsibility for damage resulting from malfunctions caused by using this product in conjunction with adaptation equipment or other company's software.

Regarding warranty of the product

Wacom warrants the product, to the original consumer purchaser, except software, to be free from defects in materials and workmanship under normal use and service as long as the product remains in production, but not less than one (1) year, from the date of original retail purchase, as evidenced by a copy of the receipt or online registration with Wacom within 30 days of purchase.

Regarding Trademarks

- Windows is a trademark of Microsoft Corporation, registered in the United States and other countries.
- Macintosh is a trademark of Apple Computer, Inc., registered in the United States.
- Other product names and related items are the trademarks or registered trademarks of each concerned company.

Precautions

- 1 Wacom Company, Ltd. holds the copyright to the auxiliary tablet.
- 2 The unauthorized duplication or reproduction in whole or in part of the tablet driver or this user guide is expressly prohibited.
- 3 Wacom reserves the right to change the configurations or specifications of the tablet driver or the product, as well as the contents of this user guide, without prior notice.



As a participant in the Energy Star program, Wacom has determined that this product meets the standards of the Energy Star program.

Regarding this User Guide

This user guide contains instructions regarding the set up, installation, functions and methods of use of this product. The product consists of the LCD monitor and the tablet, which will act as two distinct pieces of equipment to be used in conjunction with your computer. First, you will set up the display device and then you will install the tablet driver in your computer. You will then be able to use this product as a built-in display tablet.

Analog RGB compatible video output is necessary for the screen display of this product. For information regarding how to use video cards, refer to the instruction manual accompanying the video card.

Please be aware of the following regarding the LCD display.

Depending on what is being displayed, bright or dark green, red and blue dots may show up on a very small portion of the LCD display screen. These do not indicate product failure or a lack of quality.







Table of Contents

Saf	fety Precautions	
Tab	ble of Contents	(
Coi	mponent Functions	(
	Opening the StandUsing the Penholder	
Acc	cessory Check	9
Co	nnecting DTI-520	10
Ins	stalling the Tablet Driver	12
	Windows Setup Macintosh Setup Uninstalling the Tablet Driver	1 1 1
1116	Switching Display Images	
	The Auto-Adjust Function The DTI-520 Power Saving Function Blurring and Protrusion of the Picture from the LCD Panel	1 1 1
	On-Screen Display (OSD) Menu	1
Pei	n	
Hei	Basic Operations of the Pen ing the Control Panel	
U J.	Displaying the Control Panel	
	Control Panel BasicsSynchronizing the Positions of the Pen Tip and Pointer	2
Usi	ing Multiple Interactive Pen Displays	
Su	pplementary Information	2
•	Removing Stains	
	Replacing the Pen Nib	
Tro	Attaching the Pen Tether Dubleshooting	
110	Display Troubleshooting	
	Pen Troubleshooting (For Both Windows and Macintosh)	2
	Troubleshooting for Windows	3
6	Troubleshooting for Macintosh	
	ecification	
	rranty	32
Ohi	taining Technical Support	3.



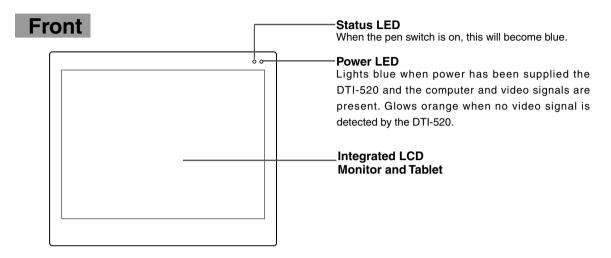




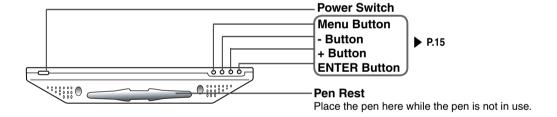




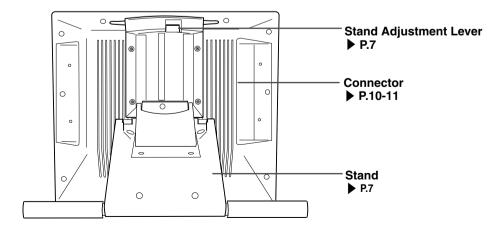
Component Functions



Top



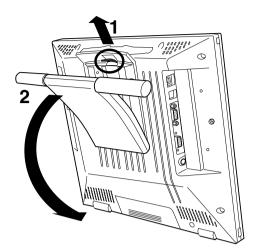
Back





Opening the Stand

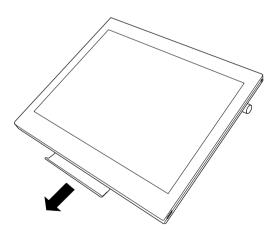
1 Pull up on the stand adjustment lever.

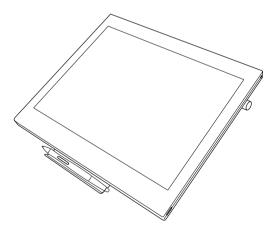


2Lower the stand carefully.

Using the Penholder

Pull the penholder towards you as shown in the illustration below.





⚠ Caution

Always close the stand and, as shown in the above illustration, lay the tablet on its side before pulling the penholder out.



Component Functions

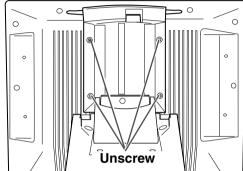
Installing DTI-520 on a Mount Arm

This product conforms to the Video Electronics Standard Association's (VESA) Flat Panel Monitor Physical Mounting Interface Standard (FPMPMI).

This product can be removed from the stand and mounted on such apparatuses as a VESA-standard mount arm. In order to do this, M4/0.7 mm screws, which are not included with the product, are needed. Use screws that will, at the time of installation, penetrate the surface of the product by no more than 15 mm. Use of longer screws may result in damage to internal parts of the product.

1 Make sure that both your computer and the product are turned off and that all cables are disconnected.

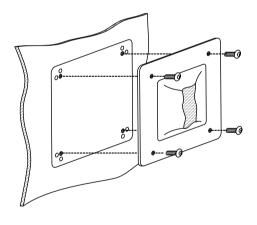
- **2**Place the display unit face down on a flat surface. To prevent harm to the front of the unit, first spread a cloth or other similar material on the flat surface.
- **3**Remove the four screws that hold the stand to the unit.



4Using four M4/0.7 mm screws, securely mount the arm or similar apparatus to the back of the unit.

⚠ Caution

When installing the unit on a mount arm or other stand, always follow the directions in the instruction booklet for the mount arm or stand, as well as the instructions contained in this document. Incorrect installation may result in the product coming loose and falling and possibly causing product failure.



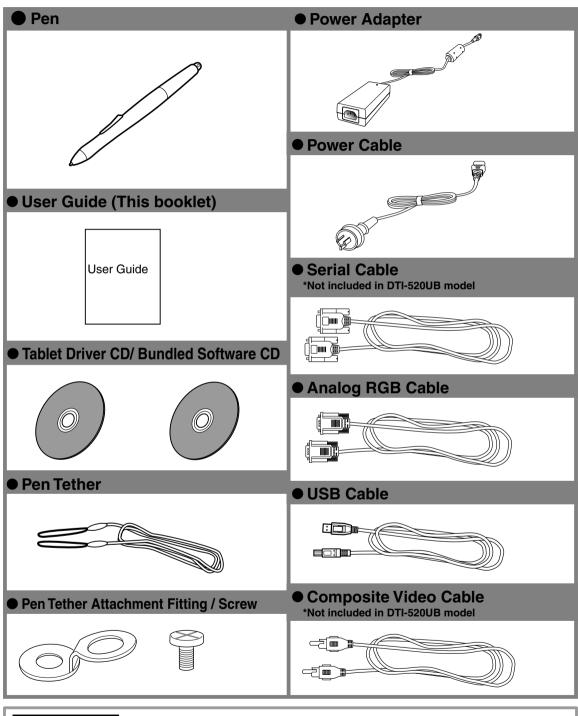
5Connect the cables and save the screws that you removed in step 3.







Accessory Check



Umportant

Do no throw the box away; it is useful for the storage and transport of the product.





Connecting DTI-520

- 1 Turn off both your computer and the product.
- **2**Connect the Analog-RGB connector to your computer's display port.
- **3**Connect the power adapter to the power cable and connect the DC power connector to the DC power input terminal. Next, plug the power cable into your electrical outlet.

 Be sure to also connect a ground wire.
- **4**Turn on the product's power switch.

 The power indicator lamp will light up orange.
- **5**Turn on your computer.



- Do not modify the refresh rate. Setting the rate to a value that exceeds the DTI-520 refresh rate may result in loss of picture.
- The color palette settings and corresponding number of colors displayed are as follows:

High Color (16 bit) → 65,536 colors / True Color (24 bit) → Roughly 16.2 million colors

- *The number of colors is limited by the efficiency of your computer and video card. For details, refer to the user's manual provided by the manufacturers.
- **6**While looking at the LCD screen, configure the color resolution and size settings.
- **7**Turn off your computer.

Caution

When using the tablet with a serial cable connection, the product's USB hub function cannot be utilized.

8Connect the product to your computer using either a USB cable or a serial cable, depending on which is appropriate for your computer.

For Macintosh, use a USB cable connection.

- **9**Turn on your computer.
- **10** Install the tablet driver (Please refer to "Installing the Tablet Driver" on page 12).

Caution

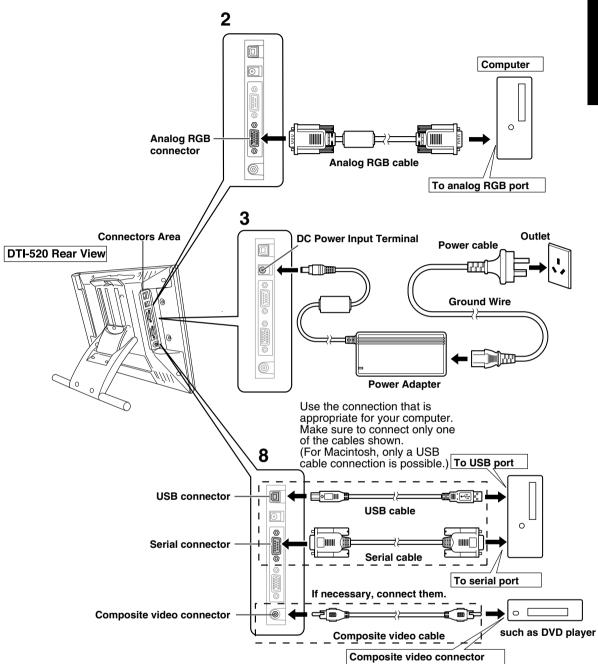
Please separate the DTI-520 from other tablets or similar devices. Electrical interference may affect operational quality of the DTI-520.











Caution

When using the tablet with a serial cable connection, the product's USB hub function cannot be utilized.









Installing the Tablet Driver

Windows Setup

Before installation, connect the DTI-520 USB cable or serial cable to your computer and turn the unit on.

- 1 First turn on the DTI-520. Then turn your computer on and login, allowing the operating system to fully load. The DTI-520 will automatically register as a USB device.
- **2**Insert the DTI-520 tablet driver CD into the CD-ROM drive. The DTI-520 menu should automatically display. If the menu does not display, double-click on the INSTALL icon (located on the CD). Click on the INSTALL PEN TABLET button and follow the prompts to install the driver software.

Macintosh Setup

- 1 Connect the USB cable to your computer, turn on the product and start up your Macintosh.
- **2**Close any open applications and temporarily turn off any virus-monitoring programs.
- **3**Insert the Tablet Driver CD-ROM into your computer's CD-ROM drive and open the CD-ROM and double-click on Install or Install.app.

™ Hint

*After installing OS X, input your password.

4Click on Install Wacom Tablet and installation will begin. Thereafter, follow the screen instructions and continue the installation process.

If during processing, the identity confirmation dialog box displays, input your password *.

5After the tablet driver installation is complete, restart Macintosh.

™Caution

Macintosh OS x 10.2 and newer versions include as a standard feature the Inkwell function. If this function is on, the yellow Inkwell memo pad will appear after installation of the Tablet Driver. To disable this function, click on Ink from the Control Panel, click on Settings and remove the checkmark from Allow Me to Write Anywhere.

Uninstalling the Tablet Driver

Windows

- 1 Click on the Windows Start button and open the Control Panel. Double click the Programs and Features icon or the Add and Delete Program (Application) icon.
- **2**Select Pen Tablet from the list and click the Uninstall or the Modify (Add) and Uninstall or Delete button. Follow the instructions in the dialog box to initiate uninstall. If Windows is restarted, it is deleted.

Macintosh

- 1 Open the Applications folder and then open the Tablet folder.
- f 2Start up Remove Tablet and follow the instructions to initiate uninstall.









The DTI-520 Display

Switching Display Images

Either an image input from the RGB – RGB cable (see P. 11) or an image input from the composite video cable (see P. 11) will be displayed on the DTI-520. Either of these images can be replaced by using the following method:

- Switch at the INPUT CONVERSION screen, which can be assessed from the menu screen.(► P.17).
- Click on the ENTER button.(▶ P.15)



If both the RGB – RGB cable and the composite video cable are connected, and then you turn the unit on, the image input from the RGB – RGB cable takes priority and is displayed.

The Auto-Adjust Function

In order to ensure optimal display image quality, this product utilizes the Auto-Adjust function. When the Auto-Adjust function is operating, it may take a short time before the screen displays properly. The settings initiated by Auto-Adjust are saved in the display.



If the Auto-Adjust function is operating, the horizontal and vertical positions as well as the phase and pitch of the display are adjusted automatically when the display mode is received. The Auto-Adjust function becomes operational when the horizontal frequency is in the 30-56.5KHz and the vertical frequency is in the 45-75Hz range.(When resolution is 1024×768 dot (XGA), vertical frequency is in the 45-70Hz range)



When the Auto-Adjust function is operating, only the power switch is operational.

The DTI-520 Power Saving Function

This product is in compliance with VESA and ENERGY STAR power-saving guidelines. When connected to a Display Power Management (DPMS)-compatible computer and graphics board, the power savings indicated below are automatically realized during times of non-operation.

Computer	Horizontal	Vertical	Picture	Power	Power Lamp
Activity	Synchronizing	Synchronizing	Signal	Consumption	
	Signal	Signal			
Turned On	Yes	Yes	Yes	23W or less	Blue
Stand-by Mode	No	Yes	No	Less than 2W	Orange/Blue*
Suspend Mode	Yes	No	No	Less than 2W	Orange/Blue*
Off Mode	No	No	No	Less than 1W	Orange

Caution

Depending on the specifications and settings of your computer and video card, when in standby and suspend modes, the power lamp may only light up orange.

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Blurring and Protrusion of the Picture from the LCD Panel

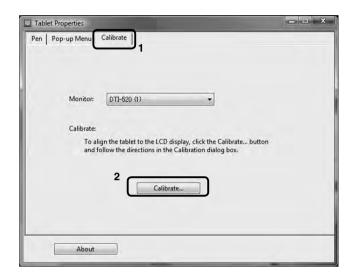
Caution

This setting is effective when the product and computer are connected by a RGB cable.

Depending on the type of computer and graphics board, the Auto-Adjust function is sometimes not able to operate at full power, resulting in the picture blurring and protruding from the LCD panel. If this happens, adjust the pitch and phase. At 1024 x 768-bit, the resolution is optimally adjusted.

Procedure:

- 1 Open the Tablet Control Panel (see page 21) and select the Calibrate tab.
- **2**Click on the Calibrate... button. An adjustment pattern for pitch and phase will appear.
- **3**Using the OSD controls, open the OSD Menu and the Pitch icon.
- **4**Adjust the pitch level so the pattern of fine vertical stripes display evenly.
- **5**In the OSD Menu, select the Phase icon.
- **6**Adjust the phase level so the adjustment pattern shows clearly.
- **7**After completing these adjustments, press the ENTER and MENU buttons to exit the OSD Menu.
- **8**Click on the CANCEL button or press the ENTER and MENU buttons to exit the OSD Menu.





Adjustment pattern for pitch and phase

WHint

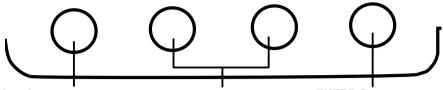
For Windows 2000, the pitch and phase may be calibrated after the Exit Windows screen is displayed. If the frequency needs to be calibrated, light and dark vertical stripes will appear in the dark areas of the screen. If the tracking needs to be calibrated, light and shade will appear horizontally in the dark areas of the screen (for 1024 x 768-bit resolution).

This method is recommended in situations where the tablet driver has not been installed.



The DTI-520 Display

On-Screen Display (OSD) Menu Buttons



Menu button :

Opens or closes the OSD Menu.

- buttons, + buttons :

You can select an option that can be activated. After activating a selected option, press the + button to increase a selected item value, and press the - button to decrease it

ENTER Button

Activates or deactivates the selected OSD menu option.

Also switches the image input from the RGB – RGB cable and the image input from the composite video cable. ▶ P.13

Using the OSD Menu

Adjusting picture quality and setting up the display are accomplished by using on-screen buttons to establish and change adjustment items and values. Click on the Menu button and the menu screen appears. Select the items to be adjusted and their desired settings.

How to Use the OSD Menu

1 Click on the Menu button to display the Main Menu Settings screen.

Example: Adjusting the brightness



2Click on the + button and the - button and select the items to be adjusted. When the option you want to adjust is highlighted, press the ENTER button.



- **3**Use the + and buttons to adjust numerical values and other items.
- **4**After making you change, press the ENTER button to save.
- **5**To exit, press the Menu button.







Types of OSD Menus

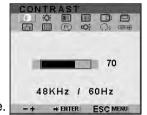
Some menu screen displays may vary depending on whether a RGB cable or a video cable is connected. The following screens explained in Common Screens below are the same ones regardless of the connection method.

Common Screens

Contrast

Select to increase or decrease image contrast.

Caution: Provided "direct" is selected on color temperature, it cannot be changeable.



Language

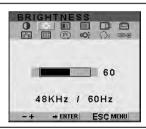
Select to choose a language option for the OSD: English, Deutsch, Francais, Espanol, Italiano, or Japanese.



Brightness

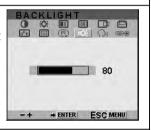
Select to increase or decrease image brightness.

Caution: If DIRECT is selected in the Color menu, Brightness cannot be changed.



Backlight

Selects to increase or decrease the backlight brightness level.



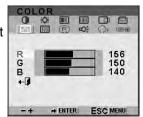
Color

Provides settings for 9300° , 6500° , and 5000° Kelvin.

Also provides a User option that enables you to adjust red, blue and green independently.

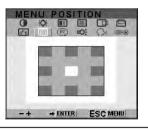
Selecting DIRECT displays the received signal as it is without any adjustment. Choose a setting to work with and press Enter to activate your selection. You can change the user setting by selecting the icon '-1'. In the User Adjustment window, change red, blue and green to calibrate color. To exit, select the icon '-1'.





Menu Position

Select to move the OSD menu around the display.



Reset

Provides two options: Use AUTO ADJUST to reset only the image parameters. Use RECALL to reset all screen options to the factory default.



Selecting the exit (-g)icon exits the Reset screen without changes.



The DTI-520 Display

Signal Source

Select D-SUB and the image input from the RGB – RGB cable displays.

Select VIDEO and the image input from the composite video cable displays.



Screens that Display with a RGB Cable Connection

Horizontal Center (VGA only)

Select to move the screen image left or right.

To automatically adjust, use the Reset screen.



Phase (VGA only)

Select to reduce or eliminate horizontal distortion lines.
To automatically adjust, use the Reset screen.



Vertical Center (VGA only)

Select to move the screen image up or down.

To automatically adjust, use the Reset screen.



Pitch (VGA only)

Select to reduce or eliminate vertical distort lines.

To automatically adjust, use the Reset screen.



17

Screens that Display with a Video Cable Connection

15KHz / 60Hz -+ → ENTER ESC MENU

Sharpness Saturation SHARPNESS Adjust sharpness of Adjust saturation of a image. a image. 128 15KHz / 60Hz 15KHz / 60Hz + ENTER ESC MENU → ENTER ESC MENU Hue Adjust hue of a image. 128

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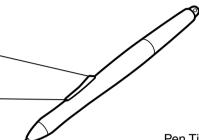
The Parts of the Pen and Their Functions

Second Side Switch

With one touch of the second side switch, functions that have been previously established become functional. ▶ P.21-22

Side Switch

With one touch of the side switch, functions that have been previously established become functional. ▶ P.21-22



Pen Tip

- You can change the position of the screen pointer by moving the tip of the pen.
- By varying the amount of pressure applied, the boldness of lines and the size of points can be adjusted.
- If the pen nib shows signs of ware, it can be replaced. See page 25.

Default Switch Function Settings

	Windows	Macintosh	Macintosh				
Side Switch	Right Button-click	Right-click					
Second Side Switch	Double-click	Double-click					

™ Note

See P.20-22 about setting of the side switch and the second side switch.

Gripping the Pen

You can hold it just like a pen.

Caution

Please be careful by mistake not to push a switch.





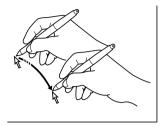




Basic Operations of the Pen

Moving the Pointer

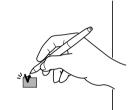
By raising the pen a little above the screen and moving it, you can move the position of the screen pointer.



Clicking and Double-clicking

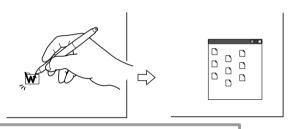
Clicking

Tap on the screen lightly once with the tip of the pen to click.



Double-clicking

Tap in the same place twice quickly with the tip of the pen to double-click.

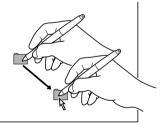


™Note

The second side switch is set to double-click as a default setting.

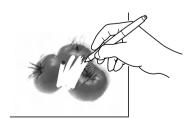
Dragging

Select an icon or folder and then, while keeping the pen tip pushed down, move the pen to move the object.



Using the Eraser

By setting the eraser function and then tracing over the display, pictures and handwritten characters disappear as if erased by a standard eraser.







Using the Control Panel

Change the settings for the pen and adjust the pointer and pen tip positions with the control panel. *When connecting and using multiple tablets, see page 24.

Displaying the Control Panel

Opening the Control Panel in Windows

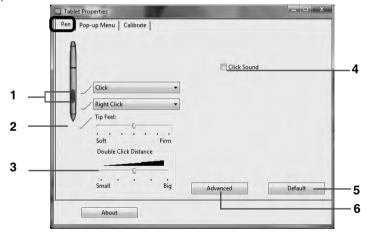
Click on the Windows Start button, go to All Programs (P) or Programs (P), open Pen Tablet and select Pen Tablet Properties.

Opening the Control Panel in Macintosh

Open System Settings and then Pen Tablet.

Control Panel Basics

You select the pen tab.



NO	Setting Item	Description
1	The second side switch and the side switch	Selects the side switch button functions for pens equipped with a side switch. See page 21-22.
2	Tip Feel	Customizes the amount of pressure needed to click or draw with the pen.
3	Double Click Distance	Adjusts the size of the double-click area. See page 21.
4	Click Sound	When checked, an audible "click" sound will be heard whenever a pen click occurs and your computer speakers are turned on.
5	Default	Returns the PEN tab settings to their factory defaults.
6	Advanced	When the Side Switch is set to right click or other click functions, select one of the following two modes of operation. Hover Click: allows you to perform click functions by pressing the Side Switch when the pen tip is raised slightly above the active surface. Click & Taps: press the Side Switch and then lightly press the pen tip against the active surface. This is the default setting for tablet PCs.









Using the Control Panel

Switch and Button Settings

Function Names		
Windows	Macintosh	Description
Click	Click	2000, p. 100
		Performs the same operations as a normal mouse.
Right-Click	Right-Click	i chomis the same operations as a normal mouse.
Middle-Click	Middle-Click	
4th click(Forwar	⁻ d)	Simulates a 4th mouse button click, which on Windows systems typically issues the Forward command in browser applications. Not available on Macintosh systems.
5th click(Back)		Simulates a 5th mouse button click, which typically issues the Forward command in browser applications. Not available on Macintosh systems
Double-Click		Simulates a left mouse button double-click. For easier double-clicking, use this function instead of tapping twice with your pen.
Click-Lock		Simulates holding down the left mouse button. Press the tool button once to initiate click lock. Press the button again to release click lock. Click lock is useful for dragging objects or selecting blocks of text.
Pop-up Menu		Displays a Pop-up Menu on your screen.
		See page 22 for more information.
Erase		Works like the eraser on a pencil in graphic applications that support the Erase function.
Keystroke		Enables you to simulate a series of keystrokes. Selecting this option displays the define keystroke dialog box, where you can enter a keystroke or keystroke sequence to play back. Keystroke combinations can include letters, numbers, function keys (such as F3) and modifier keys (such as SHIFT, ALT, or CTRL for Windows, or SHIFT, OPTION, COMMAND, and CONTROL for Macintosh).
MODIFIER		Enables you to assign modifier key(s) (such as SHIFT or CTRL). Many applications use modifier keys to constrain the size or placement of objects. Selecting this option displays the DEFINE MODIFIER dialog box where you can assign one or more modifier key functions.
Pan/Scroll		Pan/Scroll allows you to move an open file or image within a window. This function can only be set to the Side Switch. In an application that does not provide a free-hand tool, scroll speed can
		be set to one of 5 speeds. Move the slider to the desired setting.
		reduces scroll speed fast: increases scroll speed.
Pressure Hold		Sets the button so that, when pressed, the pressure is locked at the current
* Displays only with the use of the Side		pressure level until the button is released. For example, you can paint with pressure sensitivity until you reach the bush size that you like.
Switch or Second Si	de Switch.	
Mode Toggle	t Danal	Toggles between Pen Mode and Mouse Mode.
Tablet PC Inpu	ı ranei 	In Windows Vista and tablet PCs, this function will open the tablet PC input panel.



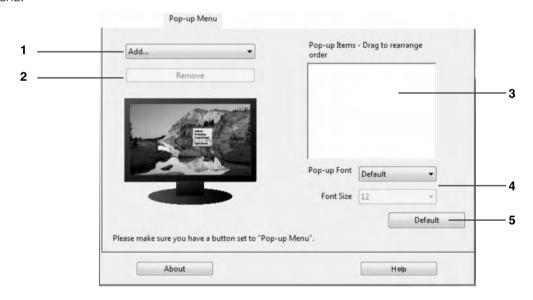
UM-0314(A)_EN.indd 21 2007/11/12 16:53:18



Function Names	
Windows Macintosh	Description
Journal	This function opens Microsoft Journal, an application for Windows Vista and tablet PC.
Open/Run	Opens an application or file. This function will open a dialog box. Click Browse to select an application or file. The selection you make appears in the Application To Run box. Click "OK" to accept the selection.
Ink Toggle	Lets you use your pen to toggle the lnk Anywhere function of Inkwell on and off. Note that lnk must be turned on for this button function to work.
Application Defined	Allows the application to determine the button function. Use this for applications such as CAD programs that have built-in button support.
Default Settings	Click on this button and all settings return to their default settings.
Disabled	Disables the button function.

Customizing the Pop-up Menu

Use the POP-UP MENU tab to define the available functions on the Pop-up Menu list. To display the Pop-up Menu, set a tool button to the POP-UP MENU function. Whenever you press that button, the Pop-up Menu is displayed. Select from available items in the Pop-up Menu by clicking on them. To close the Pop-up Menu without making a selection, click outside of the Pop-up Menu.



NO	Setting Item	Description
1	Button function	Select a button function to add to the Pop-up Menu list.
2	Remove	Removes the selected item from the list.
3	Pop-up Items	Displays a list of functions that have been added to the Pop-up Menu. To change the order of an item, drag it to a new location. Double-click on an item to make edits.
4	Pop-up Font and Font Size	Sets the FONT and FONT SIZE of the Pop-up Menu.
5	Default	Returns all tab settings to their default values. This action will delete all Pop-up Menu items that have been defined.



Synchronizing the Positions of the Pen Tip and Pointer

Make the necessary adjustments so that when the pen nib is brought near the LCD screen, the pointer displays properly in the area where the pen nib is placed (parallactic adjusting).

- * When using an analog RGB input type of LCD pen tablet, please refer to "Blurring and Protrusion of the Picture from the LCD Panel" on P. 14 and make any necessary adjustments to the screen.
- * When using multiple tablets, see page 24.
- 1 Click on Calibrate... and the screen used for making adjustments will appear.
- **2** Click in the middle of the cross mark in the upper left-hand corner of the screen while sitting in your normal seating position with the pen nib and the cross mark will move to the bottom right-hand side of the screen.



3 Click again in the middle of the cross mark that is now in the bottom right-hand corner of the screen while sitting in your normal seating position and the cross mark will disappear. The process of synchronizing positions is now complete.

Click on the OK button in the lower part of the screen to close the screen.











Using Multiple Interactive Pen Displays

When multiple interactive pen displays are connected and are to be used, it is necessary to set up the pen and calibrate for each interactive pen display individually. Please follow the procedures below to carry this out.

- **1** Bring the pen tip near the display for which the setup is to take place. Verify that the pointer moves in conjunction with the pen tip.
- **2**Open the control panel. (Please refer to the screenshot accompanying Step 1 of the procedure described in "Blurring and Protrusion of the Picture from the LCD Panel" on P. 14)
- **3**Open the Calibrate tab and verify that the correct monitor name is displayed in the Monitor field.

If Another Monitor Name is Displayed in the Monitor Field...

The control panel of a different interactive pen display is being displayed. Press the ESC key on the keyboard to close the control panel and, beginning with Step 1, repeat the above procedure to display the correct control panel.

*If the monitor name is changed without displaying the control panel, the tablet will not be set up correctly.

[Important]

When more than one interactive pen tablet is connected, the control panel of the last tablet to recognize the pen tip is displayed. Even after identifying the pointer, if you use the pen on another tablet to open its control panel, the pen tip is recognized and the control panel of this tablet opens. Please refer to the following example.

Example > Setting up Display A when Displays A and B are connected.

- 1. The pointer is identified by Display A.
- 2. The control panel of Display A is displayed. \rightarrow OK

The pen is used on Display B to display the control panel \rightarrow NOT OK (This carries out the setup of Display B)

The computer mouse is used on Display B to display the control panel → OK

4Refer to "Blurring and Protrusion of the Picture from the LCD Panel" on P. 14 and carry out calibrations.

To set up the pen, open the PEN tab, refer to "Switch and Button Settings" on P. 21 and carry out the setup.

5Repeat Steps 1 – 4 to set up another display.



24

Depending on your PC graphics card or driver, multi-monitor set up may not be available.











Supplementary Information

Removing Stains

If the product casing or pen becomes soiled, wipe off with a clean, soft cloth.

If this fails to remove the stains, soak a clean, soft cloth with a water-diluted detergent mixture, wring thoroughly and wipe off.

If the protective covering for the LCD display becomes soiled, wipe with a dry, soft cloth. If the stain is difficult to remove, try moistening the cloth slightly.

℃Caution

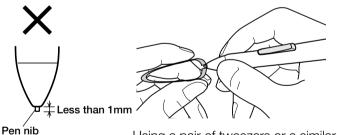
Do not use detergents for cleaning. The use of detergents may adversely affect the performance of the pen. Also, do not use organic solvents, as they may cause surface discolouration.

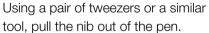


Replacing the Pen Nib

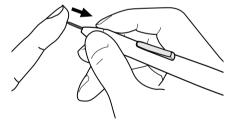
When the pen nib becomes worn down so that it is 1mm or less in length, replace it as shown in the illustration below. If the pen nib becomes worn down and angular in shape, it can easily damage the surface of the protective covering of the LCD display.







Insert a new nib



Insert the new nib, firmly pushing it in until it stops.

Caution

Please prevent children from placing the grip pen or pen nib in their mouths. There is the danger that the nib may be pulled out and swallowed. If the grip pen is placed in the mouth, it may be damaged.



UM-0314(A)_EN.indd 25 2007/11/12 16:53:20



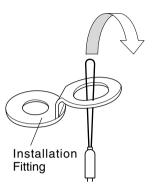
Supplementary Information

Attaching the Pen Tether

The pen tether may be attached to ensure that the pen is not lost or mislaid.

Procedure:

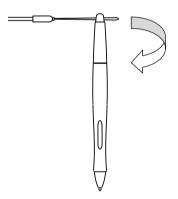
1 Pass the tip of the pen tether through the fitting.



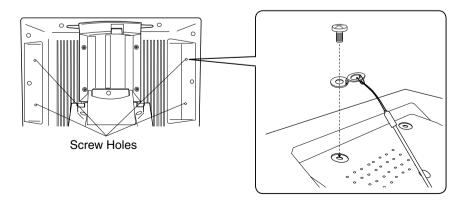
2. Pass the tip through the loop of the opposite end of the pen tether.



3. Pass the opposite tip of the pen tether through the hole at the top of the pen, and then pass the fitting through the loop.



4. Secure the fitting with the screws provided. The fittings may be installed in any one of the four holes shown below.

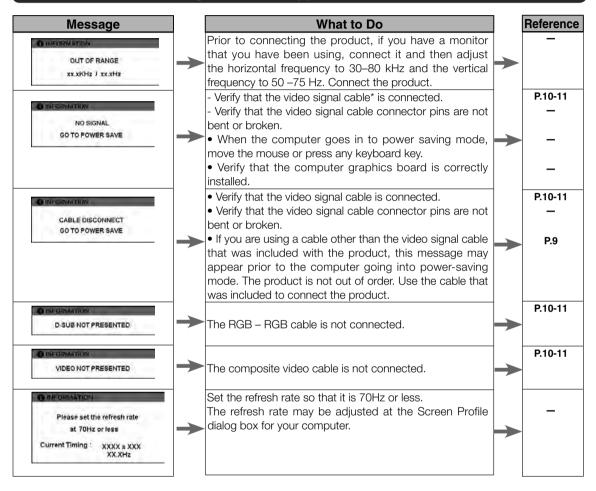






Display Troubleshooting

If One of These Messages Should Appear...



Caution

* Video signal cable indicates both USB cables (see page 9).







Troubleshooting

If One of These Conditions Should Appear...

Condition	What to Do	l	Reference
			P.10-11
The power lamp lights up orange or orange and blue.	 Verify that the video signal cable is connected. Verify that the video signal cable connector pins are not 		
orange and blue.	bent or broken.		
	When the computer goes in to power saving mode,	\rightarrow	_
	move the mouse or press any keyboard key.		
	Verify that the computer graphics board is correctly		_
	installed.		
The power lamp doesn't light up	Verify that the power cable is connected and turn the		P.10-11
and the screen doesn't display.	power switch on.		
The screen doesn't display even		_	
when the power switch is turned on.	→		_
The picture is distorted	Adjust the pitch and phase.		P.15-17
	Verify that your computer display adapter is compatible		_
The picture appears wavy	with the product.		
	Verify that the graphics mode and frequency for the	\rightarrow	P.31
The picture flickers	input signal are compatible with the product.		
	•Adjust the computer's refresh rate (vertical frequency) for		P.31
	optimal display.		
The picture is not clear	•Adjust the contrast and brightness.		P.15-17
	Adjust the pitch and phase.		P.15-17
	•Set your computer's resolution to SXGA (1280 x 1024).	\rightarrow	
The picture appears doubled or in			_
triplicate	•Do not add an extension to the video signal cable and		
	refrain from using the input selector.	\rightarrow	_
	•Connect the video signal cable firmly to the connector.		
The picture is out of position	Adjust the pitch and phase.		P.15-17
	•Adjust the horizontal and vertical positioning. Depending		P.15-17
The picture size is incorrect	on the input signal and video card, the picture may not	\rightarrow	
	entirely fill the screen.		
The picture is dark.	Adjust the brightness.	\rightarrow	P.15-17
Waves and vertical stripes appear in			P.15-17
the picture.	•Adjust the pitch and phase.		
The picture color is uneven.	Adjust the color temperature.		P.15-17
The color white does not display as	, , , , , , , , , , , , , , , , , , , ,	\rightarrow	
white.			







The Pen and Side Switch do not Operate Correctly (For Both Windows and Macintosh)

• ""	N/I	1	- 1
Condition	What to Do		Reference
The pen nib produces a click even when only very lightly coming in contact with the screen.	Use the control panel to set the pen nib sensitivity to Firm setting.		P.20
The pen does not produce a click unless excessive pressure is used.	Use the control panel to set the pen nib sensitivity to Soft setting.	→	P.20
The pen nib produces a click prior to coming into contact with the screen.	Use the control panel to set the pen nib sensitivity to Firm setting. When the status lamp turns blue in response to the pen nib being moved to close proximity to the screen, either the pen or the tablet is probably defective.	-	P.20
The pen nib and side switch do not work.	Please verify that the status lamp turns blue when the pen nib and side switch are pushed. If the lamp doesn't change color, this probably indicates that either the pen or the tablet is probably defective.	-	P.6
The side switch does not work.	Verify that the side switch setting in the control panel isn't set to Not Available	→	P.20-22
The pen cannot be double-clicked using the pen nib.	If possible, quickly click in the same area. You can also set the side and second side switches so that one click is the equivalent of a double-click.		P.20-22
	In the control panel, set the double-clicking interval to a longer setting and set the pen nib sensitivity to a lighter setting. Verify that the double-click speed setting is not too fast in the regular mouse control panel.	→	P.20-22 —
The pressure function cannot be used.	Please refer to your software application and the store where you bought the application to verify whether it is pressure function-enabled. Some applications have special settings that must be established before the		_
	pressure function becomes operational. The tablet driver probably is not installed properly. Try reinstalling it.		P.12

General Troubleshooting

Condition		What to Do		Reference
When a replacement computer is		Installing the newest version of tablet driver may		_
purchased or new software is used,	\rightarrow	resolve this problem. The newest tablet driver can be	\rightarrow	
the tablet cannot be used.		downloaded from the Wacom homepage.		
The tablet, which is connected to a		Some USB hubs cannot recognize tablets. Connect the	_	_
USB hub, doesn't respond.		tablet directly to the computer's USB port.		

UM-0314(A)_EN.indd 29 2007/11/12 16:53:22







Troubleshooting

Troubleshooting for Windows

Condition		What to Do		Reference
Even when connected to the USB port, the pen is inoperable.	→	•Check the connection of the USB connector. If using a USB hub connection, try connecting directly to the computer's USB port. •When the product model type appears in the Unknown Device list, select it and click the Delete button, canceling all settings for it. Next, click the Renew button and, following the directions in the New Hardware dialog box, re-install the tablet driver. •If use of the USB port is advantageous, open the Control Panel folder and then the System folder. Then open, in order, the Hardware and Device Manager folders. Next, check and make sure that USB (Universal Serial Bus) Controller appears in the list that is displayed. If it isn't present, it will be necessary to adjust your computer.	→	P.10-11
When Windows is in DOS full screen		Please consult your computer maker regarding this. When using a DOS mouse, the pen is inoperable. You	,	
mode, moving the pointer with the pen becomes impossible.	→	must use another mouse.		_
If the mouse is set for left-handed		Restart Windows.		
use in the regular mouse control panel, the ability to click with the pen nib is lost.	→		→	_

Troubleshooting for Macintosh

Condition		What to Do		Reference
Even when connected to the USB port, the pen is inoperable.		-Check the connection of the USB connector. Connect directly to the computer's USB portIf equipped with a USB card, the system software has probably not been installed properlyIf you have any other high-speed, high-power USB peripherals, connect these and check and see whether they operate properly or not. If these other units operate properly, this would seem to indicate that the tablet is defective.	→	P.10-11 —
The product always reverts to mouse mode and the pressure function cannot be used.	-	The tablet driver may not be properly installed. Try reinstalling it.	→	P.12

UM-0314(A)_EN.indd 30 2007/11/12 16:53:22









General Specifications

Physical dimensions(W D H):344 × 300 × 49 mm (excluding stand)

Weight: 4.6kg (including stand) Main unit input voltage: DC12V

23 W or less (DC12 V)

Power consumption: Usage temperature and humidity ranges: Storage temperature and

humidity ranges:

5-35 degrees C, 20-80%RH (conditions where condensation does not form)

-10-60 degrees C, 20-90%RH (conditions where condensation does not form) (at 60 degrees C maximum storage humidity is 38%; at 90% humidity, maximum storage

temperature is 42 degrees)

LCD Display Specifications

Display: a-Si TFT Active Matrix LCD

Screen size: 15 inches

1024 × 768 dot (XGA), 800 × 600 dot (SVGA), 640 × 480 dot (VGA) Resolution (75Hz Max.):

 $0.297(W) \times 0.297 (H) \text{ mm}$ Pixel pitch: Display dimensions: 304.1 × 228.1mm 253 level; 16,190,000 colors Color depth:

Signal inputs: Analog RGB input 0.7 Vp-p, 75, straight polarity

Synchronous inputs: TTL level, 2.2 k, polarity freedom (horizontal / vertical separation or

composite synchronous input)

Digital inputs: DVI 1.0

Synchronous frequency: horizontal: 30 – 56.5 kHz; vertical 45 – 75 Hz .(When resolution

is 1024 × 768 dot (XGA), vertical frequency is in the 45-70Hz range.)

Scanning method: all non-interlace

Plug and Play: DDC2B

- On rare occasions, light and dark dots may appear on a small part of the display screen. This condition does not indicate product failure.
- Afterimages may remain on the screen after still images have been displayed for a long period of time, but these will disappear after a short period of time.

Tablet Specifications

Reading method: Electromagnetic induction method

Maximum reading range: 304.1 × 228.1mm

Reading resolution: Maximum 20 lpmm (0.05 mm)

Reading accuracy: +/- 0.5 mm; four corners(25mm wide, 80mm long from each corner of four "L" shaped

area) to be +/- 1.5 mm.

Maximum reading height:

Data transfer rate: Maximum 100 points per second

Pressure level: 512 levels USB, RS-232C Interface:

Grip Pen Specifications (IP-110)

Side switch type Double Pressure functions: Pen nib switch

Pen nib switch type /retraction motion: Non-retractable/0.2 mm or less

Load when pen nib is switched on: 30 g or less

Physical dimensions and weight: $12.5 \times 147.5 \,\mathrm{mm}, \, 10 \,\mathrm{g}$









(WORLDWIDE, EXCEPT FOR EUROPE, AFRICA AND MIDDLE EAST)

Limited warranty

Wacom warrants the product, to the original consumer purchaser, except for the Software and consumable items such as the pen nibs, to be free from defects in materials and workmanship under normal use and service for a period of two (2) years, from the date of original retail purchase, as evidenced by a copy of the receipt and registration with Wacom within 30 days of purchase.

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

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

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

Wacom shall have no responsibility to repair or replace the product if the failure of the product has resulted from accident, abuse, misuse, negligence, or unauthorized modification or repair, or if it has been handled or stored other than in accordance with Wacom's storage instructions. Any descriptions, drawings, specifications, samples, models, bulletins, or similar material, used in connection with the sale of the product, shall not be construed as an express warranty that the product will conform or comply with your requirements.

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This Limited Warranty is governed by the laws of the United States of America and the state of Washington. This Limited Warranty is valid for and only applies to products purchased and used inside the United States (and its territories or possessions) and Canada.

Warranty service outside of the U.S.A. and Canada

For products purchased or used outside of the United States and Canada, the warranty period is one (1) year from the date of original retail purchase. Upon discovery of a defect in the product, except in the Software, within the Warranty Period you should contact your local dealer or distributor. If an authorized Wacom repair center is not available in your local country you will be responsible for all transportation costs including duties and taxes to and from the Wacom repair center. In all other respects the terms of the warranty as set forth above apply to such sales.









Obtaining Technical Support

If you experience a problem with this product that cannot be solved by referring to this guide or the manual included with your driver CD, please refer to our online FAQ or contact our support staff.

Online FAQ: http://www.wacom-asia.com/faq/faq_index.html Email: http://www.wacom-asia.com/contact/contact_index.html Phone support is available from 9:00 am - 6:00 pm on weekdays:

Tel: +81-3-5309-1588, Fax: +81-3-5309-1514 (International calling fees differ by region.)

Support for Hong Kong residents is available from Wacom Hong Kong Ltd.

URL: www.wacom.com.hk

Tel: (852) 2836-8186, Fax: (852) 3519-4833

Email: sales:wacom.com.hk

Regarding Limited Warranty in the Asia Pacific region (excluding China and Hong Kong) Wacom Co., Ltd. warrants the product, to the original consumer purchaser, including the main unit and accessories such as the AC adapter and cables, to be free from defects in materials and workmanship under normal use and service for a period of one (1) year, from the date of original retail purchase, as evidenced by a copy of the receipt (proof of purchase) or if issued, the warranty card from your local reseller or distributor. Wacom's Limited Warranty Policy for Asia Pacific can be found on the Asia Pacific website at: www.wacom-asia.com/technical/warranty/img/Limited_Warranty_AP.pdf

Premium Extended Warranty Service is available in Asia Pacific http://www.wacom-asia.com/technical/warranty/premiumwarranty.html





UM-0314(A)





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