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### Important Information

- This software has been shipped after strict quality control and product inspection. If, however, you find any failure or malfunction, contact your product dealer.
- Please understand that SHARP CORPORATION bears no responsibility for errors made during use by the customer or a third party, nor for any other malfunctions or damage to this software arising during use, except where indemnity liability is recognized under law.
- Transcribing or duplicating part or all of this manual and/or this software without permission from our company is not permitted.
- As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice.
- The contents or details may vary depending on the screen configuration and OS version, etc.
- This manual does not contain basic operating instructions for Mac OS and macOS.

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Introduction

The touch panel driver 2 is a program that enables you to use the touch panel to operate the computer that is connected to the video input terminal of an applicable model.

To use the touch panel, the touch panel must be connected to a computer, and the touch panel driver 2 must be installed on the computer.

For the system requirements of the touch panel driver 2, such as applicable models and compatible operating systems, see Readme English.pdf.

The touch pen that is included with some applicable models is referred to in this manual as “active pen”. For the applicable models, see Readme English.pdf.

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TIPS

• Depending on the application software, touch operation may not be possible (for example, if the application processes mouse and other operations independently).

Caution

• Two or more active pens cannot be used at once. (Excluding the pointer function)
## Setting up the Computer

### Install

**Caution**
- To install, an administrator name (user name) and password are required.
- If an older version of the touch panel driver 2 is installed, remove (uninstall) the old version before installing the touch panel driver 2. (See page 16.)
- Do not touch the touch panel when connecting the USB cable. If you touch the touch panel, it will lead to a malfunction. In this case, disconnect and then reconnect the USB cable.

1. **Start the computer.**
2. **Exit all applications that are running.**
3. **Connect the touch panel to the computer with a USB cable.**
   To connect the touch panel, see the manual for the LCD monitor.
4. **Double-click the setup program.**
   \TouchPanel\Mac\SharpTouchPanel2.pkg
5. **Click “Continue”.**
   Follow the on-screen instructions to install the driver.
   - If a screen prompting you to enter the name and password appears, enter the name and password of the administrator and click “Install Software” (or “OK”).
   - If the “When this software finishes installing, you must restart your computer. Are you sure you want to install the software now?” screen appears, click “Continue Installation”.
6. **When the installation finished screen appears, click “Restart”.**
   This completes the installation of the touch panel driver 2.

Each time the computer is started, the touch panel driver 2 will start automatically to enable the touch panel to be used.
How to configure settings

Configuring settings from the menu bar

The touch panel driver 2 starts automatically and the icon ( ) appears on the menu bar.

1. Click the SharpTouchPanel2 icon ( ) on the menu bar.

Touch Panel Device
Shows the connected monitor.

Touch Panel Settings
Touch Operation Mode Setting: Shows the current touch operation mode. To change the touch operation mode, click this part. (See page 7.)
Multi Touch Panel Setting: See page 8. (Only when 2 touch panels are connected.)
Calibration: See page 9.

Touch Pen Settings
Shows information on registered active pens (registration number, connection status, signal strength, battery level). You can click an active pen to change its settings. (See page 11.) To register a new active pen, click “Touch pen registration”. (See page 10.)

Version Information
Shows the model name of the connected monitor, the version of this software, and other information.

TIPS

- If an active pen is not used for 1 minute, it will enter sleep mode. When the active pen is used, it will automatically wake.
- When an active pen is in sleep mode, the battery level and signal strength will not be shown correctly. After the pen wakes, it will take time for the battery level and signal strength to be shown correctly.
- When an active pen is in sleep mode, the active pen settings cannot be configured.
- It may not be possible to configure the active pen settings while continuously pressing the pen tip or function buttons.
How to configure settings

Configuring settings from System Preferences
1. Click “System Preferences” from the Apple menu ( ).
2. Click “SharpTouchPanel2” ( ).
3. Click the menu and select settings.

TIPS
- If the “Show icon on the menu bar” checkmark is removed, the SharpTouchPanel2 icon ( ) does not appear on the menu bar.
- When this software is launched, an icon appears on the menu bar.

The icons that appear on the menu bar vary depending on the status of the touch panel and touch pen adapter.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Touch panel</th>
<th>Touch pen adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not connected</td>
<td>Not connected</td>
</tr>
<tr>
<td></td>
<td>Connected</td>
<td>Not connected</td>
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<tr>
<td></td>
<td>Not connected</td>
<td>Connected</td>
</tr>
<tr>
<td></td>
<td>Connected</td>
<td>Connected</td>
</tr>
</tbody>
</table>
1. Click the SharpTouchPanel2 icon (🗹) on the menu bar.

**Touch Operation Mode Setting**

Select operation mode of the touch panel.
- Standard Touch Mode: The touch action takes place when the screen is touched by active pen or finger.
- Pen dedicated Mode: The touch action takes place only when the screen is touched by active pen. The touch action does not take place when the screen is touched by finger.
Touch Panel Settings

**Gestures setting**
Select the touch action (see page 17) to be used. Touch actions that are followed with a ✅ mark have multiple actions that can be used. Click a touch action and select the desired action.

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**Multi Touch Panel Setting**
If 2 touch panels are connected at the same time, specify which USB connection is connected to which display.

1. Touch the touch panel and check the USB that is connected to the touch panel. A red frame appears around the USB icon in (1) above.

2. Drag the USB icon with the red frame on screen (1) to the corresponding monitor.

**TIPS**
- This can be set only when the model supports multi-screen.
Calibration

If black bands appear at the top and bottom or left and right of the screen, perform position adjustment so that the mouse cursor correctly moves to the point that is touched.

* If black bands appear both at the top and bottom and at the left and right, the touch position is not correct. In this case, change the display.

Device Information
Select the model to be calibrated.

Calibration Method
Execute calibration of the selected model.

Auto
If black bands appear on the screen, position adjustment is automatically performed. Select “Auto” and click on “Apply”.

Manual
If the automatically adjusted touch position is not correct, perform manual calibration. The PN-L series and PN-C series have different calibration methods.

- PN-L series
  Enter the display resolution (Width, Height) and click “Apply”.
  To check the monitor resolution, see the manual for the LCD monitor.

- PN-C series
  When you click “Apply”, a setting screen appears. (4-point touch screen)
  Follow the instructions on the screen.
  To cancel, press the [ESC] key on the keyboard.
Register, delete or configure an active pen.
To configure the settings, the touch pen adapter that has the active pen registered must be connected.

Registering(pairing)/unregistering an active pen
Up to 4 active pens can be used simultaneously when using the pointer function.
To use the optional active pen, you must register the active pen (pairing).
The maximum number that can be registered depends on the LCD monitor. For details, see Readme English.pdf.
You can also cancel the registration of an active pen.

Registering an active pen
Perform active pen pairing for one pen at a time.

1. Click the SharpTouchPanel2 icon ( ) on the menu bar.

2. Click “Touch pen registration” in the “Touch pen settings”.

3. Click “Registration”.
4. Simultaneously hold down function button 1 and function button 3 of the active pen being paired.
   Continue pressing the buttons until pairing is completed.
   A message appears after completion of pairing.
5. Click “OK”.

Tips
- Pairing may not be possible if there is another touch pen adapter nearby.
- In this event, turn off the power of the monitor that uses the nearby touch pen adapter.
- One touch pen cannot be registered in multiple touch pen adapters.
Unregistering an active pen
1. Click the active pen you want to cancel in the touch pen list on the Touch pen settings screen.
2. Click “Unregister”.

Change the active pen settings
1. Click the SharpTouchPanel2 icon ( ) on the menu bar.
2. Click the active pen that you want to set in the touch pen list of the “Touch Pen Settings”.
3. Click the tab of the item you want to set and change the settings.

TIPS
• Alert settings for low battery
  When the battery is low, an alert appears in the top right corner of the monitor screen.
  To change the alert display method, select “Sharp Touch Panel2” from “System Preferences” - “Notifications” in the Apple menu ( ). Select from the three methods below.

  None ..............Not displayed
  Banners ..........Displayed for about 10 seconds (factory default setting)
  Alerts ................Displayed until “Close” is pressed
Touch Pen Settings

Basic

Showing information
Shows the firmware version and touch pen ID of the selected active pen.

LED Setting (Only appears on applicable models)
Set how the active pen LED lights during use.
    - Always Light On: Always lights.
    - Blink slowly: Blinks.
    - Light On when button is pressed: Lights while the function button is pressed.

Unregister
Release the registration (pairing) of the selected active pen.

Pen

Pressure Settings
Enable or disable the pen pressure function.

Input pen pressure
Shows the current amount of pen pressure.

Start value of pen pressure detection
Set how hard the active pen must be pressed to be recognized.

Saturation value (100%) of pen pressure
Set the amount of active pen pressure that is treated as the maximum pressure.

Automatic setting (Only appears on applicable models)
Normally not used.
If pen pressure is detected when the pen tip is not being pressed, the pen pressure will be automatically adjusted.
Do not press the pen tip during automatic setting.

Restore defaults
Return the “Start value of pen pressure detection” and “Saturation value (100%) of pen pressure” to the factory default settings.
Function buttons

Functions can be assigned to the function buttons of an active pen. You can also specify whether or not the pointer function is assigned to function button 4. After selecting a function button, select the function to be assigned to the button. The displayed screen (number of function buttons) varies depending on the active pen.

Functions that can be assigned to function buttons 1 to 3 are as follows.

| Function | Disable, Undo, Secondary click, Redo, PageUp, PageDown, ↑ (cursor up), ↓ (cursor down) |

Click “Restore defaults”, it will return to the settings below.
- Function button 1: Secondary click
- Function button 2: PageDown
- Function button 3: PageUp
- Function button 4: Pointer
Touch Pen Settings

- Pointer (Only appears on applicable models)

Image Preview
   Shows the currently set pointer icon.

Shape
   Set the shape of the pointer.

Size
   Set the size of the pointer.

Color
   Set the color of the pointer.

Transparency
   Set the transmissivity of the pointer.

Disable left click
   Select this checkbox to disable mouse left click by function button 4.

Disable tilt
   Select this checkbox to disable detection of pen tilt.

Invert pen direction
   Select this checkbox to use the pointer function by pointing the pen tip at the screen.

Show pen number in image
   Select this checkbox to show the pen number on the pointer icon.

Advanced
   Pointer speed: Adjust how fast the pointer moves when the active pen is moved.
   Image stabilization: Adjust pointer movement caused by a shaking hand.
   Pointer start time: Set the time until the pointer appears after the function button 4 is pressed.
   Centering Time: Set the time until the pointer position returns to the center of the screen.
      The pointer position will return to the center of the screen when the set time elapses after you stop using the pointer function.
   Restore defaults: Return the items in “Advanced” to their default settings.

Restore defaults
   Return all items in the pointer settings to their default settings.

TIPS
- For how to use the pointer function, see the manual for the LCD monitor.
- To execute a mouse left click, press function button 4.
  To use as a pointer, press and hold function button 4.
- To perform mouse dragging, press and release function button 4 and then immediately press and hold function button 4. The mouse cursor will move to the position where you release function button 4.
- If the pointer icons overlap when multiple pens are used, the icon that was displayed last will be on top.
- While left clicking or dragging is being used, left click and drag cannot be used on another active pen.
Changing the shape or color of the pointer icon

You can change the pointer icon settings while using the pointer function (while pressing function button 4). Only one active pen can be set at once.

1. To change the icon shape: Press function button 2 while pressing function button 4.  
   To change the icon color: Press function button 3 while pressing function button 4.

   The selection changes each time you press function button 2 or 3.

2. When you have completed the settings, release function button 4.

Spotlight

When spotlight ( ) is selected in “Shape”, the overall screen darkens and a bright circular area appears at the pointer position.

TIPS

- You can change the size of the spotlight with “Size” of “Pointer”.
- You can change the overall darkness of the screen with “Transparency” of “Pointer”.
- When the spotlight is set, the pointer cannot be used with other active pens.
- When using the spotlight, you can perform touch or mouse actions on the brightened part of the screen only.
Uninstall

Caution

• To uninstall, an administrator name (user name) and password are required.

1. Disconnect the USB cable.
2. Execute uninstall.
   (1) Double-click the “TouchPanel” folder, and then double-click the “Mac” folder.
   (2) Double-click “SharpTouchPanel2 Uninstaller.app”.
   (3) Click “Uninstall”.
     • If a screen prompting you to enter the name and password appears, enter the name and password of the administrator and click “OK”.
3. When the uninstall finished screen appears, click “Quit”.
4. Restart the computer.

This completes the uninstallation.

TIPS

• After restarting, the standard drivers of operating system will work.
  To find out whether the LCD monitor corresponds to the standard drivers of operating system, see the manual for the LCD monitor.
To touch with the touch pen, use pen mode. The factory default setting is automatic switching of the input mode. (Standard Touch Mode)

**TIPS**

- In addition, read the manual for the LCD monitor.
- Select the action to be used in Gestures setting. (See page 8.)
- You can not only move the cursor without tap operation.

### Touch Action

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Tap</td>
<td>Same action as left-clicking a mouse. Touch with your finger/pen.</td>
</tr>
<tr>
<td>Double-tap</td>
<td>Same action as double-clicking a mouse. Quickly touch twice with your finger/pen.</td>
</tr>
<tr>
<td>Drag-and-drop</td>
<td>Same action as drag-and-drop with a mouse. Touch the screen with your finger/pen and move without lifting. When you have finished the movement, lift your finger/pen.</td>
</tr>
</tbody>
</table>

* Tap can be set in Gestures setting. *(See page 8.)*

**Common finger and pen actions**

- **Tap**
  - Same action as left-clicking a mouse.
  - Touch with your finger/pen.

- **Double-tap**
  - Same action as double-clicking a mouse.
  - Quickly touch twice with your finger/pen.

- **Drag-and-drop**
  - Same action as drag-and-drop with a mouse.
  - Touch the screen with your finger/pen and move without lifting. When you have finished the movement, lift your finger/pen.
Finger actions

- The screen may not respond correctly in the following cases:
  - Touching is too quick
  - The distance between the two points is too short
  - When the two points cross
- Operation with the touch pen is not possible.

Click or tap with two fingers
Same action as a secondary click.

Scroll with two fingers
Use in screens that can be scrolled.
With your two fingers touching the screen, move in the direction you want to scroll. The screen scrolls in the direction of the movement.
The scroll direction can be changed.

Pinch with two fingers
Use in a screen that is capable of reduction/enlargement. Touch the screen with two fingers and move your fingers closer together to reduce the view, or apart to enlarge the view.

Reduction

Enlargement

Rotate with two fingers
Use this action in a screen that is capable of image rotation. Touch the screen with two fingers and rotate to rotate the screen in that direction.
Rotate two fingers in the same direction.

Double-tap with two fingers
Use smart zoom.
Scroll left or right with two fingers / Swipe with two or three fingers
Use cross page swipe.

Swipe left from the right edge with two fingers
Display the Notification center.

Tap with three fingers
Check the tapped text in a dictionary or other resource.

Swipe left or right with three or four fingers
Move an application to the front.

Swipe up with three or four fingers
Display Mission Control.

Swipe down with three or four fingers
Display Application Exposé.

Pinch with thumb and three fingers
Touch the screen with 4 fingers, and move your thumb and 3 fingers together to open Launchpad.
Touch Action

Spread with thumb and three fingers
Touch the screen with 4 fingers, and move your thumb and 3 fingers apart to show the desktop.

Active pen actions
Functions can be assigned to the function buttons on an active pen.
For details, see “Function buttons”. (See page 13.)
For how to use the active pen, see the manual for the LCD monitor.