

Operation Manual

Light Pen II [Windows / Mac OS]



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Notes

The illustrations and screenshots in this manual may be different from those on your computer.

Expressions used in this document

Pages to reference within this document are indicated as (See page $\circ \circ$).

Pointer

Before using the pointer

Screw the long rod into the body of the pointer until it is secure. Install batteries. (See page 4)

How to use the pointer

While pressing the button, when the LED lamp lights, the infrared ray LED at the end of the rod also lights. This is sensed by the infrared ray sensor on the front of the projector, and the location of the tip of the pointer is detected.

Procedures for use:

- 1) Place the tip of the pointer anywhere on the screen.
- 2) Pressing the button once has the same function as
- left-clicking a mouse. Press and hold the button to drag. In pen mode, you can draw lines.

Note

On status will consume battery power. When not in use, press the power button to turn the power off. (Press the button to confirm that the LED does not light.)

■ Pen

Before using the pen

Install batteries. (See page 4)

How to use the pen

While pressing the tip against a hard screen, the tip of the pen and the LED for the internal infrared ray will both light. This is sensed by the infrared ray sensor on the front of the projector, and the location of the tip of the pen is detected.

Procedures for use:

- 1) Place the tip of the pen anywhere on the screen.
- 2) By pressing the tip against a hard screen, you can drag. In pen mode, you can draw lines.

Note

Since there is a touch sensor inside the tip of the pen, pushing or bending the tip will consume battery power. In order to prevent unnecessary battery consumption when not in use, press the power button to turn the power off. (Press the tip of the pen to confirm that the LED does not light.)





■ Installing and Removing Batteries 1) Rotate as shown in the following figures.

- 2) Install batteries (two) and rotate in reverse direction.



*Remove the batteries in the reverse order of installation.

■ WARNING:

Do not use or handle the batteries improperly, and the following.

- Use AAA/R03 or AAA/LR03 batteries.
- · Change both batteries at the same time.
- Do not mix and use old and new batteries together.
- · Keep batteries away from water and other liquids.
- Keep the pen and pointer away from heat and humidity.
- Do not drop the pen or pointer.
- If a battery should leak, wipe the leakage away completely and put in new batteries.
- Installing the wrong type of batteries could cause them to rupture.
- When discarding batteries, follow the instructions issued by local government authorities and the battery manufacturer.

Use with Windows

Interactive functions use the LightPenII 2.00 software.

System requirements

In order for the interactive functions to work properly, the computer system must meet the following requirements.

System requirements		
Supported OS	Microsoft Windows XP, Vista, Windows 7 (32bit/64bit)	
CPU	2.0 GHz or faster Intel Pentium 4 (dedicated GPU is recommended)	
Memory	512 MB or more	
Free disk space	80 MB or more	

Operation is not guaranteed for all computers that meet the above conditions.

Install the LightPenII software (Windows XP procedures)

Step 1: Insert the CD-ROM into the CD-ROM drive.

Step 2: Launch the "setup" file.

Step 3: Follow the instructions shown on screen to complete installation of the software.

Note

For the latest version, download "LightPenII" from our web site (http://panasonic.net/avc/projector/).

Note

- LightPenII software might not function properly with some computer systems.
- Using RescueLightPen software (use with Windows) On some computers that have free ffdshow software installed, problems might occur with the LightPenII software due to compatibility issues. In this case, run RescueLightPen, and then start LightPenII.

Uninstall the LightPenII software (Windows XP procedures)

On the desktop, select "Start", "All programs", "LightPenII 2.00", and "Uninstall LightPenII 2.00" in order. Follow the instructions appearing on the screen and uninstall the software.

Setup the interactive functions

Calibration

In order to allow the sensor of the projector to accurately detect the position of projected screen, please execute the calibration first.

- Step 1. Connect the interactive camera on the projector and PC using a USB cable.
- Step 2. Launch the "SPIIdriver" software from the start menu or the desktop. The icon will appear in the task bar at the bottom of the screen and the tool bar will appear at the right side of the screen.
- Step 3. Left-click the "SPIIdriver System" icon in the task bar.



Step 4. Select "Calibration".



Step 5. Place the tip of the pointer or pen (select according to screen size) on the + mark and press the button. That + mark changes from green to black, and the next green mark appears in the middle of the top of the screen. Follow the same procedures to turn all 13 + marks black. In order to complete calibration smoothly, make sure that the pointer or pen tip always has a clear line of sight to the sensor beneath the projector lens. The sensor can detect the tip's position well when light from the projector shines on it.



Hint:

If the screen and projector positions are fixed, this calibration will not be necessary the next time that you use the same computer and screen resolution with them.

Set to launch at start up

Step 1: Left-click the "SPIIdriver System" icon in the task bar.



Step 2: Select "StartUp" so that a check mark appears next to it as shown below.

✔ StartUp	
Calibration	
About	
Exit	

Hint

When "StartUp" is selected, the "SPIIdriver System" software will automatically be launched the next time that Windows is started up, and the icon will appear in the taskbar at the bottom of the screen and the tool bar will appear at the right side of the screen.

To disable the "StartUp" setting, click "StartUp" again to remove the checkmark.

Use with Windows (continued)

Using the interactive functions

Launch the "LightPenII" software from the start menu or the desktop. The Mouse icon will appear in the task bar at the bottom of the screen and the tool bar will appear at the right side of the screen.

Functions of the icons in the tool bar

Mouse	٢
Red pen	P
Green pen	A
Draws green lines	<u>e</u>
Blue pen Draws blue lines	2
Marker Draws marker lines	2
Shape tool Draws circles, squares, triangles and straight lines	-
Line thickness and color Use to change the pen color and line thickness	02
Eraser Erases parts of drawn lines and shapes	2
Delete Deletes an entire line or shape at once	
Save file Saves the currently shown screen to the computer	
Changes to the whiteboard mode	
Last page Returns to the previous page	4
Next page Advances to the next page	đ
Editing tool Use to edit a drawn line or picture	0
Quit	5

Quits LightPenII application

Use with Windows (continued)

Shape t	tool	
Click the sh	nape tool icon 📩 to open the shape menu as shown	below, and select the shape you want to draw.
0		
Whitebo	oard mode	
Select the v The A (la background 1) Select the that you v	whiteboard mode icon 💭 to make the background o ast page) and 🙀 (next page) icons are replaced by d) icons. e background selection icon 🆄 to open the followin want to use.	f the PC screen white. the 论 (background selection) and 🖄 (white g window where you can choose the background
Select a imag	ge. III	
Look in Recent Places Desktop Librarice Librarice Robin Librarice Robin	x: Deckground D1.jpg background_D2.jpg background_03.jpg background_04.jpg background_D5.jpg background_06.jpg background_D7.jpg background_08.jpg background_09.jpg background_10.jpg	
	background_11.jpg v Open File name: background_01.jpg v Open Files of type: Image type("torp "jpg "gil" png) v Cancel	

2) Select the white background icon 🙀 to change the background to white.

To exit whiteboard mode, select the whiteboard icon ~~ again.

Use with Windows (continued)

Editing tool

Select the editing tool icon 😨 to open the editing tool bar as shown below, and select the function that you need to use for editing.

lcon	Description	
6	Select and move object	* 🔳
©°	Rotate object	
8	Print	
5	Undo	ð
	Redo	

Mouse mode and Pen mode

After startup, the Mouse mode is active. Use the pointer or pen to move the mouse pointer.

- When using the pen, press the tip of the pen to the screen.
- When using the pointer, press and hold down the button during use.
- When in mouse mode, press and hold the pointer button or tip of the pen for about 2-3 seconds to right-click.

Select the pen (Red Pen/Green Pen/Blue Pen/Marker Pen) from the tool bar to use the pen or pointer to draw lines. You can set the line thickness and color.

- When using as a pen, use it like an ordinary pen, pressing its tip against the screen as you draw.
- · When using as a pointer, press and hold the button as you draw.



In mouse mode, the \bigotimes icon appears in the taskbar. After switching to the red pen mode, the 🖉 icon appears.

Switching quickly between mouse and pen modes

Click the pointer or pen (Red Pen/Green Pen/Blue Pen/Marker Pen) tip above or below the screen to switch between mouse and pen modes.

• In Pen mode, the color selected last time will be automatically switched to.



Changing the position of the tool bar & showing/hiding the tool bar

You can change the tool bar position, as well as set whether or not to show it.

- If you select outside the left screen edge with the light pen or pointer, the tool bar will move to the left side. If you select outside the right screen edge with the light pen or pointer, the tool bar will move to the right side.
- Select outside the left or right screen edge where the tool bar stays with the light pen or pointer to show or hide the tool bar on that side.



PowerPoint Tool

Step 1. Click the Mouse icon on the task bar.



- Step 2. Set "PowerPoint Tool Setting" to "On".
- Step 3. When a PowerPoint file is in "Slide Show mode", the PowerPoint Tool bar appears on the right side of the screen.



When you quit PowerPoint mode, the PowerPoint Tool automatically disappears.

Note

The PowerPoint Tool does not support PowerPoint 2002.

Use with Mac OS

Interactive functions use the LightPenII 2.1.1 software.

System requirements

In order for the interactive functions to work properly, the computer system must meet the following requirement.

System requirements		
Supported OS	Mac OS X 10.5–10.6.4 (except 10.6.3)	
CPU	Intel processor	
Memory	512 MB or more	
Free disk space	10 MB or more	

Operation is not guaranteed for all computers that meet the above conditions.

Install LightPenII software

Step 1: Insert the CD-ROM into the CD-ROM drive. Step 2: Copy the "LightPenII 2.1.1" folder to the hard disk. Step 3: Eject the CD-ROM from the CD-ROM drive. Step 4: Launch the "LightPenII 2.1.1".

ATTENTION

Do not launch the software directly from the CD-ROM.

Note

For the latest version, download "LightPenII" from our web site (http://panasonic.net/avc/projector/).

Uninstall LightPenII software

Step 1: Drag and drop [LightPenII 2.1.1] in the folder to install to trash box. Step 2: Select "Empty trash..." from the "Finder" menu.

Setup the interactive functions

Calibration

In order to allow the sensor of the projector to accurately detect the position of projected screen, please execute the calibration first.

- Step 1. Connect the projector and Mac using the included USB cable.
- Step 2. Double-click the "LightPenII 2.1.1.app" or "LightPenII 2.1.1.app" shortcut icon to launch the program. The icon appears in the menu bar on the top of the screen and the tool bar appears at the right side of the screen.
- Step 3. Left-click the "LightPenII" icon in the menu bar.



Step 4. Select "Calibration."



Step 5. Place the tip of the pointer or pen (select according to screen size) on the + mark and press the button. That + mark changes from green to black, and the next green mark appears in the middle of the top of the screen. Follow the same procedures to turn all 13 + marks black. In order to complete calibration smoothly, make sure that the pointer or pen tip always has a clear line of sight to the sensor beneath the projector lens. When light from the projector shines on the tip, the sensor can detect its position well.



Hint

If the screen and projector are fixed, this calibration will not be necessary the next time that you use the same computer and screen resolution with them.

Set to launch at start up

Step 1: Left-click the "LightPenII" icon in the menu bar.



Step 2: Select "StartUp" so that a check mark appears next to it as shown below.



Hint

When "StartUp" is selected, the "LightPenII" software will automatically be launched the next time that Mac OS is started up, and the icon will appear in the menu bar at the top of the screen and the tool bar will appear at the right side of the screen.

To disable the "StartUp" setting, click "StartUp" again to remove the check mark.

Use with Mac OS (continued)

Using the interactive functions

Double-click the shortcut icon of "LightPenII 2.1.1.app" or "LightPenII 2.1.1.app". The icon will appear in the menu bar at the top of the screen and the tool bar will appear at the right side of the screen.

Functions of the icons in the tool bar

Teel her need	liana		(777)
Tool bar positi			
Moves tool bar to right or left side of screen			
Mouse			
Enables mouse function			
Mouse Right Key			
Enables rig	ht-clic	k function	00
Mouse Double Click			
Enables do	uble-c	click function	0
Pen thickness	S		
Selects per	n thick	ness	~
Pen color	-		
Selects per	n color	r	-
Red Pen			
Draws red	lines		e
Green Pen	Green Pen		
Draws gree	en line	s	e
Blue Pen			
Draws blue	lines		e
Black Pen			1
Draws blac	k lines	3	D
Marker Pen	-		D
Draws mar	ker lin	es	2
Eraser			A
Erases par	Erases parts of drawn lines and shapes		
Delete			*0
Deletes an	entire	line or shape at once	9
Redraw			a
Use to undo last drawing (or erasing)			0
Save file			0
Saves the currently shown screen to the computer			
Last page			
Returns to the previous page			
Next page			
Advances to the next page			\checkmark

Mouse mode and Pen mode

After startup, the Mouse mode is active. Use the pointer or pen to move the mouse pointer.

- When using the pen, press the tip of the pen to the screen.
- When using the pointer, press and hold down the button during use.
- When in mouse mode, press and hold the pointer button or tip of the pen for about 2-3 seconds to right-click.
- Select the right-click or double-click icon from the tool bar, and move the cursor to a file you want to open and click. This is convenient for opening files.

Select the pen (Red Pen/Green Pen/Blue Pen/Black Pen/Marker Pen) from the tool bar to use the pen or pointer to draw lines. You can set the line thickness and color.

- · When using as a pen, use it like an ordinary pen, pressing its tip against the screen as you draw.
- When using as a pointer, press and hold the button as you draw.

In mouse mode, the 🖞 icon appears in the menu bar. After switching to the red pen mode, the 🖉 icon appears.



Switching quickly between mouse and pen modes

Click the pointer or pen (Red Pen/Green Pen/Blue Pen/Black Pen/Marker Pen) tip above or below the screen to switch between mouse and pen modes.

· In Pen mode, the color selected last time will be automatically switched to.



Changing the position of the tool bar & showing/hiding the tool bar

You can change the tool bar position, as well as set whether or not to show it.

- If you select outside the left screen edge with the light pen or pointer, the tool bar will move to the left side. If you select outside the right screen edge with the light pen or pointer, the tool bar will move to the right side.
- Select outside the left or right screen edge where the tool bar stays with the light pen or pointer to show or hide the tool bar on that side.



Use with Mac OS (continued)

Disabling interactive functions

Step 1. Left-click the "LightPenII" in the menu bar.

Step 2. Select "Exit" to quit the software.

(You can do this from either the screen or the computer.)



Troubleshooting



Q2: When calibrating the LightPenII, the green + mark will not turn black so I cannot proceed.

A: This could be caused by one of the following.

- 1. Check the following.
 - Does the pen or pointer have enough battery charge?
 - Is the tip of the pointer or pen in shadow on the screen? If the sensor cannot detect the LED in the tip of the pointer or pen, it will not function.

Do not put the pen tip in shadow.	The recommended angle is 25°.
on total	

- The surrounding light might be too bright. Move light sources further away from the CMOS sensor and screen. This problem occurs frequently in the following situations.
 - I his problem occurs frequently in the following situations.
 - Sunlight is entering through a window near the screen
 - There is a light source near the sensor or screen
- 3. When using Windows Vista or Windows 7, the + mark at the bottom left of the screen might be hidden by the start icon. In this case, place the tip where you expect it to be and press the button.

Q3: The tip of the pointer and the mouse pointer position are not the same.

A: This could be caused by one of the following.

- 1. Calibration was not conducted accurately.
- 2. After calibration, the projector or screen was moved.
- 3. The computer resolution was changed.
- Recalibrate in any of these cases.

Q4: The mouse pointer jumps around regardless of the movement of the pointer tip.

A: This could be caused by one of the following.

- 1. There might be interference from a strong light nearby. Block nearby light from reaching the screen. (See Q2 above.)
- 2. Since remote control use can cause malfunction, do not use one when using the interactive functions.

Q5: When the computer is restarted from standby mode, LightPenII does not work.

A: When a computer is put into standby mode, its USB ports might be shut down. Quit the LightPenII program once and then restart it. (See Q1 above.)

Q6: Why does this message appear? "Strong lighting in the environment may cause light pen to stop functioning normally."

A: The surrounding light is too bright. Interfering light can appear white as shown below. Move those light sources or the screen, turn the lights off, use curtains or try other means to prevent such interference.



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