

SHARP®

Projector Gamma Adjustment Software

Gamma Manager

Version 1.1

For Windows®

Operation Manual

- Please read this operation manual carefully to ensure correct use of the software.

Introduction

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Troubleshooting

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Sharp Gamma Manager, the special software for use with the Sharp projector, is equipped with the function to directly adjust the projector's gamma value using a PC. Performing the specifications for the initial settings is easy, allowing for the accurate reproduction of brightness, contrast, and color intensity.

- Great effort has been expended to ensure that the descriptions in this manual are correct. Should you, however, come across an inconsistency, a telephone call or letter to SHARP Corporation noting the questionable area would be highly appreciated.
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- SHARP Corporation shall in no event be liable for damages, loss of revenue or third party claims arising from the use of the software.
- This operation manual assumes the reader is familiar with Windows® and the use of a mouse. For any questions concerning Windows®, please refer to the operation manual of the Microsoft® OS at hand.
- For the purpose of increased performance, please note that the specifications of this software are subject to change without prior notice.

Required Hardware and Software

The proper use of the **Gamma Manager** software requires the following hardware and software.

**PC running Microsoft® Windows® XP HomeEdition/
XP ProfessionalEdition or Windows Vista® (Japanese and English
operating systems are compatible with Gamma Manager)**

Hard disk free space 5 MB or more

Interface RS-232C serial port

NOTE 

Note that the Gamma Manager software may not operate normally if the serial port settings, etc. are not correct when equipment other than the projector is also connected to the serial port of the computer.

 CAUTION

Correct operation of the Gamma Manager software is not guaranteed for computers of which the motherboards have been changed or modified, or for computers that have been configured by the users themselves.

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- The circumstances described in this manual may differ depending on the operating environment of the computer used. Operating speed may slow down depending on the operating environment and the processing capability of the computer.

Projector and PC Connections

The Gamma Manager software requires the use of an RS-232C cable (female-female cross type). For details concerning PC connections, please refer to the projector's operation manual.

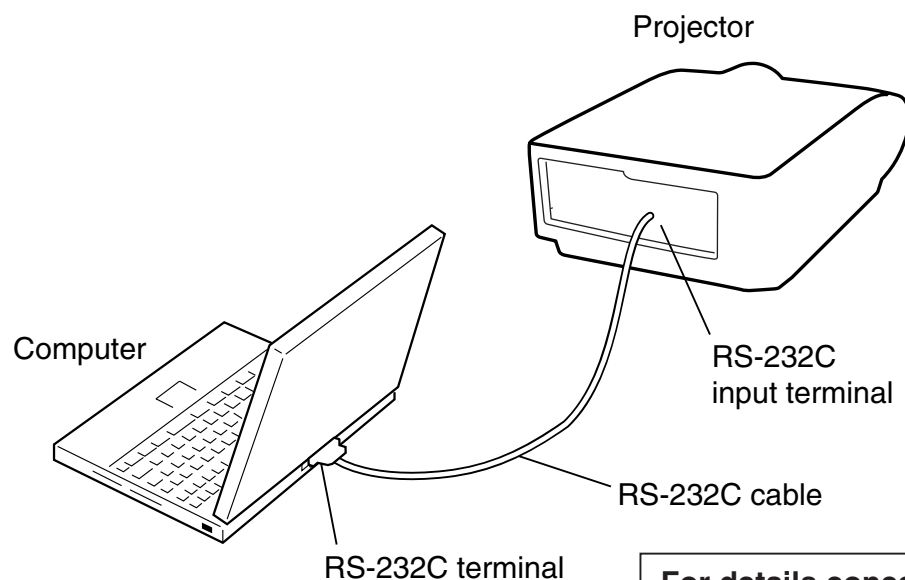
! CAUTION

Before making the connections, please be sure to turn off both the projector and the computer. After making the connections, be sure to turn on the projector first. The computer should always be turned on afterwards. (Making the connections after switching on the power can cause serious defects in the projector and/or the PC.)

NOTE

Please be sure to read the computer's operation manual carefully as well.

RS-232C cable connection






For details concerning the connections, please refer to the projector's operation manual.

Installing Gamma Manager

Before installing the Software, download the software for the installation from the SHARP Web site. When downloading it, check the instruction and cautions posted on the Web site.

To Install the Software

- 1 Check that the PC on which the Software is to be installed is compatible with the Software.**
For more information, see “Required Hardware and Software” (page 4).
- 2 Turn the PC power “ON”.**
NOTE 
Log into the system using an administrator login name.
- 3 Exit from all active applications.**
- 4 Double-click the downloaded installer.**
The message “Choose Setup Language” will appear.
- 5 Select “English” and click the “OK” button.**
The “InstallShield Wizard” dialog box appears.
- 6 Click the “Next >” button.**
The “Choose Destination Location” dialog box appears.
NOTE 
Change the installation folder only if necessary.
(Changing the folder is not normally required).
- 7 Click the “Next >” button.**
The “Select Program Folder” dialog box appears.
NOTE 
Change the program folder only if necessary.
(Changing the folder is not normally required.)
- 8 Click the “Next >” button.**
The installation starts.
Once the installation is complete, the “InstallShield Wizard Complete” dialog box appears.
- 9 Click the “Finish” button.**
The installation of the Software has been completed.

Uninstalling Gamma Manager

CAUTION

If the Software is running, be sure to exit from the Software before uninstalling it.

- 1 Click the “start” button and select “Control Panel”.**
- 2 Double-click “Programs and Features” or “Add or Remove Programs”.**
- 3 Select “Sharp Gamma Manager” and click the “Uninstall” or “Change/Remove” button.**
The message “Choose Setup Language” appears.
- 4 Click the “OK” button.**
The “Confirm File Deletion” dialog box appears.
- 5 Click the “OK” button.**
The uninstallation starts.
Once uninstallation is complete, the “Maintenance Complete” dialog box appears.
- 6 Click the “Finish” button.**
The Software has now been uninstalled.

Starting the Gamma Manager Software

Before starting the Gamma Manager software, please make sure the projector and your computer are connected correctly (page 5).

► Starting

1 Turn on the power of the projector and set it to enable communication.

Be sure to always turn on the power of the projector before starting your computer.

2 Start up your computer, click the “start” button, set the pointer to “All Programs” and then to “Sharp Gamma Manager”. Next select “Sharp Gamma Manager”.

The “Model Selection” dialog box is displayed.

NOTE ►

For selection of the projector, please refer to page 9.

Quitting the Gamma Manager Software

Click the “Exit” button.

Projector Settings

Select the projector for making adjustments of the gamma curve.

1 Start up the Gamma Manager software (Page 8).

The computer searches for the projector that is connected to it and displays the “Model Selection” dialog box.

2 Select the projector of which you want to make adjustments of the gamma curve and click “OK”.

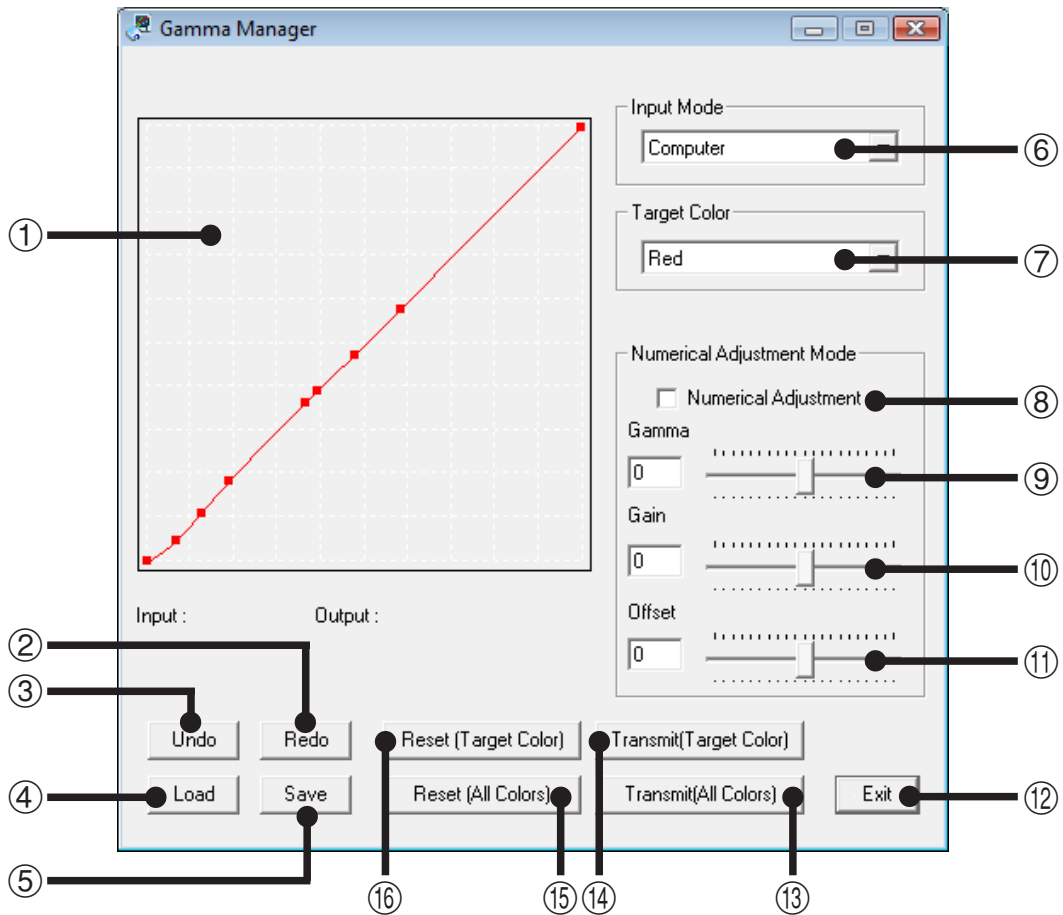
The “Gamma Manager” window is displayed.

NOTE

- If the dialog box for the projector to be adjusted is not displayed, click “Rescan” to perform the search once more.
- If the second search mentioned above also failed to display the desired projector, follow the steps below.
 - Refer to “Troubleshooting” on page 14.
 - Follow the procedure below to search for the projector again.
 1. Visit the Sharp website <http://sharp-world.com/projector/> and download the Sharp Gamma Manager Model File of the projector you want to adjust.
 2. Click the “Import” button to select the model file.
 3. Click the “Open” button to import the model file.
 4. Click the “Rescan” button to search for the projector again.
- A search is made for projectors for ports COM1 through COM10. Projectors connected to other COM ports are not displayed.

Adjusting the Gamma Curve Using the PC

“Gamma Manager” Window



- ① **View / adjustment area of the gamma curve**
The gamma curve data is displayed graphically.
Enables adjustment of the gamma curve.
- ② **“Redo”**
To restore the original status after operating the gamma data.
- ③ **“Undo”**
To restore the previous status just before operating.
- ④ **“Load”**
Reads the gamma curve data saved in a file.
- ⑤ **“Save”**
Saves the adjusted gamma curve data in a file.
- ⑥ **Selecting “Input Mode”**
For selecting the input mode for the adjusted gamma from the pull-down menu.

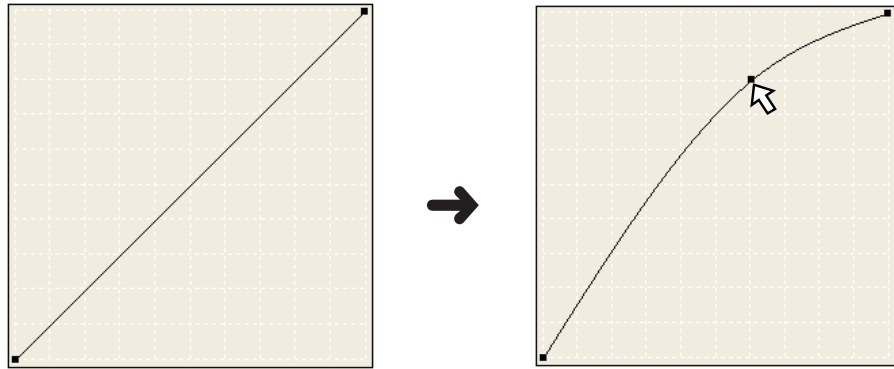
- ⑦ **Selecting “Target Color”**
Select the color to be adjusted from the pull-down menu.
When selecting red, green, or blue, only the selected color can be adjusted. When selecting “RGB”, all three colors, red, green, and blue, can be adjusted simultaneously.
- ⑧ **“Numerical Adjustment Mode” check box**
By checking the check box, the adjustment mode using the numerical setting is obtained.
By unchecking the check box, the adjustment mode for graphical setting is obtained.
- ⑨ **Slider bar for gamma adjustment**
The gamma value of the gamma curve is set using the slider bar. The value set becomes the adjustment coefficient and in accordance with this setting value, the view / adjustment area of the gamma curve is represented graphically.
- ⑩ **Slider bar for the adjustment of the gain value**
The gain value of the gamma curve is set using the slider bar. The value set becomes the adjustment coefficient and in accordance with this setting value, the view / adjustment area of the gamma curve is represented graphically.
- ⑪ **Slider bar for the adjustment of the offset value**
The offset value of the gamma value is set using the slider bar. The value set becomes the adjustment coefficient and in accordance with this setting value, the view / adjustment area of the gamma curve is represented graphically.
- ⑫ **“Exit” button**
Quits the software.
- ⑬ **“Transmit (All Colors)” button**
The gamma curve data for all three colors, red, green, and blue is sent to the projector and changes the gamma setting value of the projector.
- ⑭ **“Transmit (Target Color)” button**
The gamma curve data for the color selected in “Target Color” is sent to the projector and changes the gamma setting value of the projector.
- ⑮ **“Reset (All Colors)” button**
The gamma curves for the three colors, red, green, and blue, are reset to the default setting.
- ⑯ **“Reset (Target Color)” button**
The color gamma curve that was selected using the adjustment target color is reset to the default setting.

NOTE 

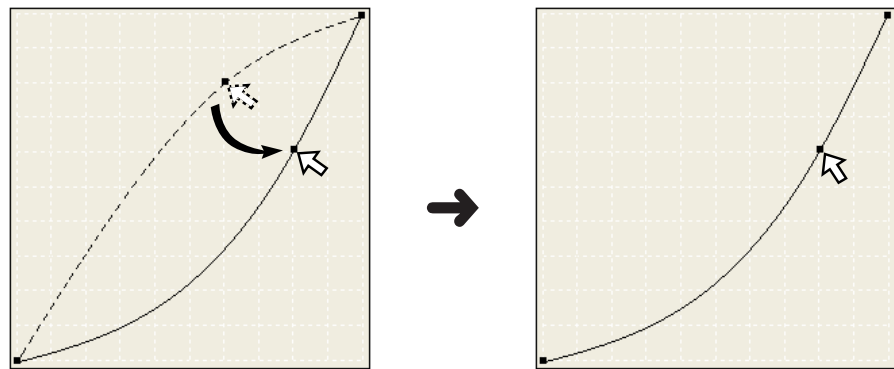
⑨, ⑩, and ⑪ are only enabled for operation during the numerical adjustment mode.

Graphical Adjustment of the Gamma Curve

- 1 Uncheck the numerical adjustment check box.
- 2 When clicking within the view / adjustment area, the control pointer appears.



- 3 By dragging the control pointer, the gamma correction curve can be adjusted.



NOTE 

Using the control pointer, multiple settings can be made.

Saving Gamma Curve Data

- 1 Click “Save”.**
The “Save As” dialog box is displayed.
- 2 Assign “File name:”.**
- 3 Assign “Save in:”.**
- 4 Click “Save”.**
The adjusted gamma curve data are saved in a file.

Reading Gamma Curve Data

- 1 Click “Load”.**
The “Open” dialog box is displayed.
- 2 Assign “Look in:”.**
- 3 Assign “Files of type:”.**
- 4 Assign “File name:”.**
- 5 Click “Open”.**
The gamma curve data saved in a file are read.

Resetting Gamma Curve Data to the Factory Default Setting

- 1 From “Target Color”, select the color to be reset to the value of the factory default setting.**
- 2 Click “Reset (Target Color)”.**
- 3 Click “Transmit”.**

NOTE 

- When the numerical adjustment check box is checked, clicking “Reset (Target Color)” is not possible.
- When “Reset (All Colors)” is clicked, the gamma curve data for all colors will be reset to the factory default settings.

Troubleshooting

When an error occurs during communication/When the projector that is connected to the computer is not displayed

- ◀ Check that the RS-232C cable is correctly connected (page 5).
- ◀ Check that the RS-232C cable is a cross-over cable.
- ◀ Reconnect the RS-232C cable and try again. The cable may not be connected properly causing an error to occur during transmission.

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Customer Service Guide

If this operation manual does not answer your question, please contact the SHARP Service departments listed below.

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<http://www.sharplcd.com>

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Sharp Electronics of Canada Ltd.

(905) 568-7140

<http://www.sharp.ca>

Mexico

Sharp Electronics Corporation Mexico Branch

(525) 716-9000

<http://www.sharp.com.mx>

Latin America

Sharp Electronics Corp. Latin American Group

(305) 264-2277

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Sharp Electronics (Europe) GMBH

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Sharp Electronics (U.K.) Ltd.

08705 274277

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