

Projector installation, adjustment assist software

ProAssist™

User manual

Compatible with ProAssist Ver. 1.1







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Ver.2 2/20

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1. Overview of ProAssist

1-1. Features

ProAssist is software for controlling the projector and adjusting the projection screen from a computer via a network.

It allows necessary adjustments to be carried out smoothly when combining several projectors together to project a large screen in a classroom, meeting room, hall etc.

- Switching the input signal
- Adjusting the quality and brightness etc. of the picture
- Lens control

Lens Shift and focusing etc. can be carried out and the adjustment values thereof can be saved.





Correction of screen geometric distortion (Geometric Correction)
 Performs distortion correction when projecting onto a screen with a special shape such as a cylindrical or spherical surface etc.





Adjusting the boundary of the screen (Edge Blending)
 It makes the screen boundary less distinct by adjusting the brightness, color density etc. of the area where the screens overlap.

Example of four projectors in a 2×2 layout:



• Adjusting the color uniformity of the screen (Uniformity)

It corrects the color non-uniformity that may occur locally on the projection screen. The color non-uniformity is reduced by gradually changing the colors in the selected range.



Adjusting the intermediate tone colors between projectors

Adjust the RGB level for each gradation and set the gamma tone (gradation reproducibility) to make the screen uniform.



1-2. Operating requirements

The projector is operated in the following OS environment.

• Windows 10 (32-bit version/64-bit version) Home / Pro / Enterprise / Education

Minimum resolution of screen 1280x800 (WXGA)

Compatible projectors

Check the download page of our company.

URL: https://www.nec-display.com/dl/en/pj_soft/proassist.html

1-3. Install / Uninstall

1. Download ProAssist.

Access the download page of our company.

URL: https://www.nec-display.com/dl/en/pj_soft/proassist.html

Store ProAssist_Installer_X.X.X.X.exe on the computer. (X refers to its version.)

2. Doubleclick ProAssist_Installer_X.X.X.X.exe.

The installer will start.

Proceed to the next step according to the message on the screen.

When installation is complete, a shortcut icon for ProAssist is created on the desktop.



To uninstall

- 1. Open the "Windows Settings" window.
- 2. Click "App".

The "App and Function" window will appear.

- 3. Click "ProAssist" in the list of applications.
- 4. Click "Uninstall".

Proceed to the next step according to the message on the screen.

2. Operating ProAssist (basic operations)

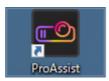
Preparations:

- Install the projector and connect it to a network.
 See the user's manual of the projector for details on how to install and connect the projector.
- Connect the computer where ProAssist has been installed to a network.

2-1. Starting / ending ProAssist

■ Starting from the shortcut icon

Double-click the ProAssist shortcut icon on the desktop.



■ Starting from the start menu

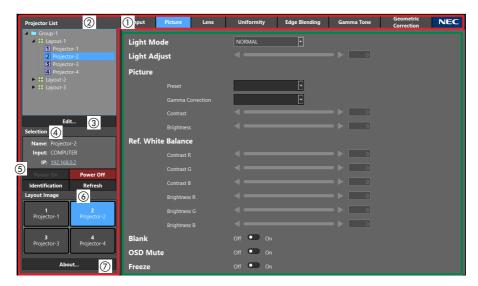
Click "Start" \rightarrow " NEC Projector User Supportware" \rightarrow "ProAssist".

The ProAssist screen will appear.

To end

Click the Close button at the top right of the window (XXXII).

2-2. Screen and operating method



↑ Common screen

↑ Display area

A description on how to operate the common screens and menu is given here.

Menu selection and a variety of settings and adjustments are carried out using a mouse or keyboard.

The selected item will be displayed in light blue.

[Common screen]

- ① Menu selector tab
 - Switches the setting and adjustment menu and displays it in the display area. Click the NEC logo to open the browser and display the website of our company.
- (2) Projector List

Displays the registered Group, Layout or Projector in a tree format.

Select the Projector to adjust from this list.

Displays the status of the projector using icons.



③ Edit button

Displays the Projector List Editor screen (\rightarrow Page 10)

(4) Selection

Displays the status of the projector selected in the Projector List.

"-" appears when multiple projectors are selected.

Name	Displays the Group, Layout, Projector Name.
Input	Displays the input terminal.
IP	Displays the IP address. Click the IP address to open the browser and display
	the HTTP server screen of the projector.

(5) Projector control button

Power On	Turns on the power supply of the projector.
Power Off	Turns off the power supply of the projector.
Identification	Displays the identification message (IP address) on the screen of the projector.
Refresh	Updates the status display of the projector.

(6) Layout Image

Displays the projector layout of the selected Layout.

Click to select the projector to be adjusted.

(7) About button

Displays the version information screen of ProAssist.

[Display area]

Click the menu selector tab to display the setting and adjustment menu in the display area. Use the mouse or keyboard to configure each setting or adjustment item as shown below. For keyboard use, the Tab key is used to move the focus among menus.

Display example	Mouse operation	Keyboard operation
Dropdown list	 Click ∇ to display a dropdown list. Click the item you want to select and confirm the selection. 	 Press the space key to display a dropdown list. Press the ↑↓ keys to select an item. Press the Enter key to confirm.
Adjustment bar Handle	 Click to lower the value by 1. Click to raise the value by 1. Drag the handle to change to the value that you want. Click the adjustment bar to increase the value. You can enter the value directly by clicking the numerical input field. 	 Focus on the handle and press the ← key to lower the value by 1. Focus on the handle and press the → key to increase the value by 1. You can enter the value directly by focusing on the numerical input field.
Off/On button Off On	The button turns On/Off each time it is clicked.	 Press the ← key to turn it Off. Press the → key to turn it On.

2. Operating ProAssist (basic operations)

Display example	Mouse operation	Keyboard operation
△ button	Click this button to move the lens in the direction of the arrow and change the Zoom/Focus.	Press the Enter key to move the lens in the direction of the arrow and change the Zoom/Focus.
Radio button	Click the item you want to select and confirm the selection.	 Focus on the button and press the Enter key. Press the ↑↓ keys to select an item. Press the Enter key to confirm.
-/+ button	 Click - to lower the value by 1. Click + to raise the value by 1. You can enter the value directly by clicking the numerical input field. 	 Click the ← key to lower the value by 1. Press the → key to move the focus to the + button and raise the value by 1. [When the focus is on the + button] Press the ← key to move the focus to the - button and lower the value by 1. Click the → key to raise the value by 1.

2-3. Registering a projector and creating a Projector List

Register the projector to be controlled as a control unit in Layout and Group and create a Projector List.

References

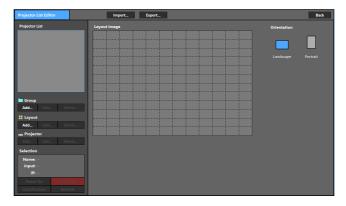
- A maximum of 6 projectors can be registered in a single Layout.
- The maximum number of levels in a Group is 4.
- A total of up to 100 Group and Layout can be created.

1. Display the Projector registration screen

When you start ProAssist for the first time and nothing has been registered in the Projector List, the Projector List is displayed in the common screen as shown in the diagram below.

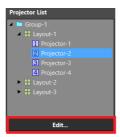


Click the Add Projector button to display the Projector List Editor screen.



References

If the Projector List is already registered, click the Edit button in the common screen to display the Projector List Editor screen.



2. Register the Group

(1) Click the Add button of the Group.



The Add Group screen will appear.

(2) Enter the name of the Group.



Enter the name of the Group in 64 or less characters.

(3) Click the OK button.

The Group will be registered and the Add Group screen closes.

3. Register the Layout

(1) Select the Group to register the Layout from the Projector List.



(2) Click the Add button of the Layout.



The Add Layout screen will appear.

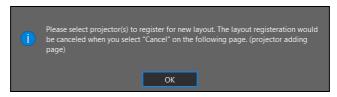
(3) Enter the name of the Layout.



Enter the name of the Layout in 64 or less characters.

(4) Click the OK button.

The following message will appear.



(5) Click the OK button again.

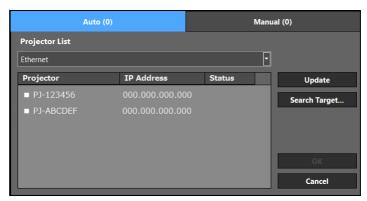
The display will change to the Projector registration screen.

4. Select the projector to register

Select automatically or manually the projector to register.

Click the tab at the top of the screen to switch between the automatic selection screen and the manual selection screen.

*Only manual may be available for selection depending on the projector.



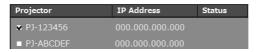
■ To select automatically

Search for projectors connected to the network.

(1) Select the area to search from the dropdown list.



(2) Tick the checkbox of the Projector to register.



The number of selected projectors will be indicated within parentheses on the Auto tab.

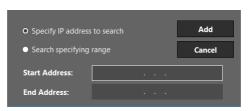
- Click the Update button to update the screen.
- When you click the Cancel button, a confirmation screen will be displayed. Click "Yes" to cancel the projector selection and close the screen.

References

Follow the procedure below to search for a Projector by specifying the IP address.

(1) Click the Search Target button.

The IP address input screen will appear.



If "Specify IP address to search" is selected

Search for the Projector with the IP address entered in Start Address.

If "Search Specifying range" is selected

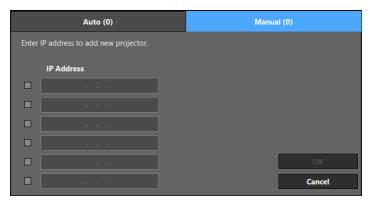
Search for the Projector with the IP addresses entered in the Start Address and End Address.

(2) Enter the IP address and click the Add button.

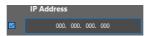
The display will return to the Projector List registration screen and the Projector found will appear.

■ To select manually

Enter the IP address of the projector connected to the network.



(1) Tick the checkbox in the IP address input field and enter the IP address.



The number of selected projectors will be indicated within parentheses on the Manual tab.

• When you click the Cancel button, a confirmation screen will be displayed. Click "Yes" to cancel the projector selection and close the screen.

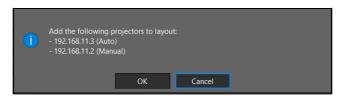
5. Registering the projector

(1) Click the OK button on the automatic selection screen or manual selection screen.



A confirmation screen is displayed.

(2) Click the OK button on the confirmation screen.



Register all the projectors selected on the automatic selection screen and the manual selection screen in the layout and return to the projector list edit screen.

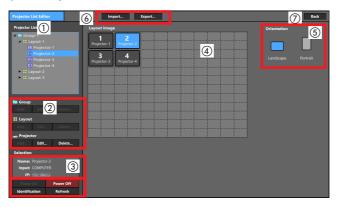
 Click the Cancel button to cancel the addition of projectors and close the confirmation screen.

2-4. Editing the Projector List

You can edit the Projector List that you have created in the Projector List Editor.

Besides this, the following functions are also available.

- Checking and changing the Layout Image
- Projector control
- Import and Export of Layout



1 Projector List

Displays the registered Group, Layout or Projector in a tree format.

Select a target to edit from this list.

You can perform a drag and drop in the Projector List area to move a Group, Layout or Projector.

② Projector List Edit button

Group

Add	Displays the Add Group screen (→ Page 11). This button is enabled when no
	projector in the Projector List is selected or when Group is selected.
	You can set the Group name in 64 or less characters.
Edit	Displays the edit screen of the Group. This button is enabled when Group is se-
	lected in Projector List.
	The edit screen is the same as the add screen.
Delete	Deletes the Group selected in the Projector List.
	The Layout belonging to the Group will be deleted too.

Layout

Add	Displays the Add Layout screen (→ Page 12). This button is enabled when no
	projector in the Projector List is selected or when Group is selected.
	You can set the Layout name in 64 or less characters.
Edit	Displays the edit screen of the Layout. This button is enabled when Layout is
	selected in Projector List.
	The edit screen is the same as the add screen.
Delete	Deletes the Layout selected in the Projector List.

Projector

Add	Displays the Projector registration screen (→ Page 12). This button is enabled when Layout is selected in Projector List.
Edit	Displays the edit screen for editing the Projector name. This button is enabled when Projector is selected in Projector List. Input new Projector name. Projector-2 OK Cancel You can enter the Projector name in 16 half-width characters or less.
Delete	Deletes the Projector selected in the Projector List.

③ Selection / projector control button

Refer to common screen (\rightarrow Page 8).

References

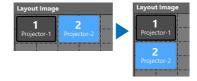
When the focus is on a Layout Image, the selected projector can be controlled with the keyboard.

Alt+I key : Displays the identification message (IP address) on the screen of the projector.

Alt+N key : Turns on the projector.
Alt+F key : Turns off the projector.

4 Layout Image

Displays a projector layout plan showing the Layout selected in Projector List as an edit target. You can change the layout plan according to the installation condition of the projector.



Operations are carried out with the mouse or keyboard.

2. Operating ProAssist (basic operations)

Mouse operation	Keyboard operation
Drag the mouse to	Tab key: Move the focus in the order of the projector number.
move the position of	$Ctr+\uparrow\downarrow\leftarrow\rightarrow$ keys: Move the selected projector vertically and horizontally. If an-
the projector.	other projector exists at the location to which you move a projector, the projector
	will switch the location with another projector.

⑤ Orientation

Switch the display of the Layout Image according to the installation direction (horizontal/vertical) of the projector.

(6) Import / Export button

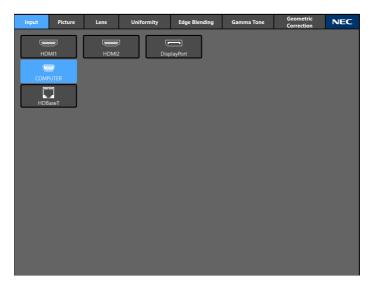
Import	Imports the Layout from screen.	Imports the Layout from the LIST file (*.lst) specified in the file selection screen.	
	NOTE All registered informa selected file.	All registered information will be overwritten by the contents of the	
Export	' /	Exports the Layout to the LIST file (*.lst). The export target differs depending on the selection status of the Projector List.	
	Selecting Projector	Layout which the selected Projector belongs to only	
	Selecting Layout	Selected Layout only	
	Selecting Group	Configuration under the selected Group	
	No selection	All	

7 Back button

Closes the Projector List Editor screen.

3. Adjusting the projector

3-1. Switching the input terminal [Input]



Switch the input terminal of the projector selected in the Projector List.

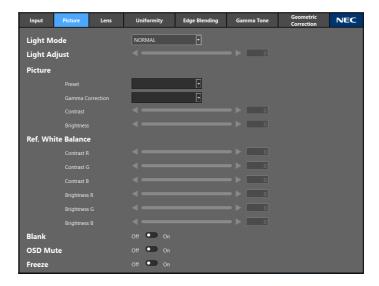
The input terminal of the selected projector will be displayed in the display area.

When multiple projectors are selected, the input terminal of each projector is merged and displayed, and you can also switch the inputs of them at the same time.

Operations are carried out with the mouse or keyboard.

Mouse operation	Keyboard operation
Click the icon of the termi-	Tab key: Moves the focus of the icon.
nal you want to select to	Enter key: Switches the input to the terminal focused.
switch the input.	

3-2. Adjusting the picture [Picture]



Adjust the picture quality of the projector selected in the Projector List and configure the settings of the Light Mode etc.

When multiple projectors are selected, the same adjustment values and settings are applied to all projectors.

[Light Mode]

Select the brightness.

[Light Adjust]

Adjust the output of the light source.

[Picture]

Preset	Select the optimal settings for the projected picture. Apply the same settings to
	all projectors for tiling projection by combining the pictures of multiple projec-
	tors. Refer to the user's manual of the projector for details of the selection items.
Gamma Correction	Select the gradation of the picture.
	Apply the same settings to all projectors for tiling projection by combining the
	pictures of multiple projectors. Refer to the user's manual of the projector for
	details of the selection items.
Contrast	Adjust the contrast of the picture.
Brightness	Adjust the brightness of the picture.

[Ref. White Balance]

Adjust the White Level and Black Level with the same signal to achieve the best color reproduction.

Contrast R, G, B	Adjust the white color of the screen.
Brightness R, G, B	Adjust the black color of the screen.

[Blank]

Turns off the picture for a while.

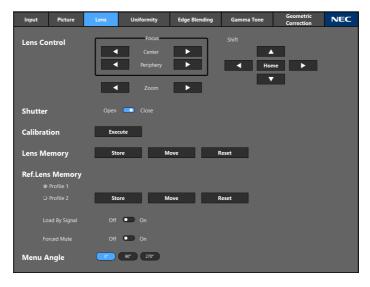
[OSD Mute]

Hides the on-screen display (menu, input terminal, message) temporarily.

[Freeze]

Captures a still image of the picture displayed.

3-3. Controlling the lens [Lens]



Adjust and configure the settings related to lens of the projector selected in the Projector List. When multiple projectors are selected, the same adjustments and settings will be applied to all the projectors.

[Lens Control]

Focus Center		Adjust the focus near the optical axis.
	Periphery	Adjust the focus around the screen periphery.
		*Depending on the projector, the only adjustment item may be "Focus".
Zoom		Adjust the size of the projection screen.
Shift ◄▶▲▼		Adjust the position of the projected image.
Home		Returns the lens to its home position

[Shutter]

Turns off the light source to turn off the projection light temporarily.

[Calibration]

Calibrates the adjustment range of the lens.

[Lens Memory]

Saves the adjustment value of the lens for each input signal.

Store	Saves the adjustment values of Lens Shift, Zoom and Focus in the projected input
	signal.
Move	Moves the lens to the saved adjustment position of the lens according to the
	input signal.
Reset	Deletes the adjustment value of the lens registered in the projected input signal.

[Ref. Lens Memory]

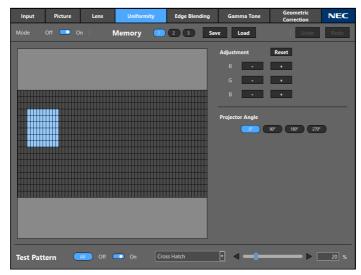
Saves the adjustment value of the lens as a common signal of all the projectors.

Profile1,	Select the Profile number to register the adjustment value.
Profile2	
Store	Saves the adjustment values of Lens Shift, Zoom and Focus in the selected Profile number.
Move	Moves the lens to the adjustment position of the lens saved in the Profile number.
Reset	Returns the adjustment value saved in the selected Profile number to the default factory shipping condition.
Load By Signal	Moves the lens to the adjustment value of the lens saved in the selected Profile number when the signal is switched.
Forced Mute	Select whether to mute (delete) the picture or not when moving the lens.

[Menu Angle]

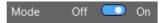
Select the orientation of the on-screen display (menu, input terminal, message).

3-4. Adjusting the Uniformity of the picture [Uniformity]



Adjust the color uniformity in some parts of the projection screen. Select the target projector to adjust from the Projector List.

(1) Turn the mode to On.



The Uniformity function will be enabled.

(2) Turn the Test Pattern to On.



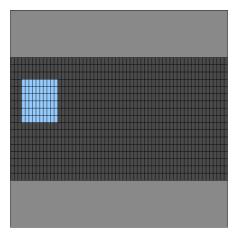
Select a raster from the dropdown list to display the Raster test pattern on the projection screen.

Adjust the gradation of the test pattern with the adjustment bar so that the non-uniformity appears more distinct.

When you turn Test Pattern to On after enabling All, the same gradation Test Pattern is displayed in all the projectors belonging to the same Layout.

(3) Select the adjustment range.

Select the range to adjust the color uniformity in the adjustment range selection area.



Operations are carried out with the mouse or keyboard.

Mouse operation	Keyboard operation	
Select the range by drag-	Tab key: Moves the focus to another control.	
ging.	$\uparrow\downarrow\leftarrow\rightarrow$ keys: Cancel the previous selection and moves the focus to the	
	selected position.	
	Shift+ $\uparrow\downarrow\leftarrow\rightarrow$ keys: Maintain the previous selection status and select the	
	range starting from the position where Shift was first pressed.	

The selected adjustment range will be displayed in blue.

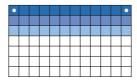
(4) Adjust each of the R, G, B color component.

Change the R, G, B values to change the color gradation towards the outside starting from the center of the adjustment range* so that the non-uniformity is less distinct.





* If 2 corners are included on the upper side of the adjustment range, apply gradation from the top to the bottom as shown in the diagram below.



Also, if a bottom left corner is included in the adjustment range, apply the gradation from the bottom left to the top right as shown in the diagram below.



- Click the Reset button to reset the RGB adjustment values of the selected range. Undo records will also be reset.
- Click the Undo button to return to the previous adjustment value. A maximum of up to 50 values can be recorded.
- Click Redo button to adjust the value again. Redo can be carried out a maximum of 50 times.

References

When the focus is in the adjustment range selection area, you can adjust the RGB values with the shortcut keys.

Ctrl+R key : Raises the red value by 1.
Ctrl+Shift+R key : Lowers the red value by 1.
Ctrl+G key : Raises the green value by 1.
Ctrl+Shift+G key : Lowers the green value by 1.
Ctrl+B key : Raises the blue value by 1.
Ctrl+Shift+B key : Lowers the blue value by 1.

Ctrl+Z key : Returns the adjustment value to the previous value

Ctrl+Y key : Redoes the adjustment 1 time.

Adjustment ends with this.

References

Adjustment values can be saved in 3 ways.



Select the storage destination from 1, 2 or 3 and click the Save button.

To invoke the adjustment value, select the storage location from 1, 2 or 3 and click the Load button. The Undo records will be reset then.

You can also invoke the adjustment value for 1, 2, and 3 by using "COLOR UNIFORMITY (TOOL)" from the on-screen menu of the projector.

Example of NP-PA703UL:

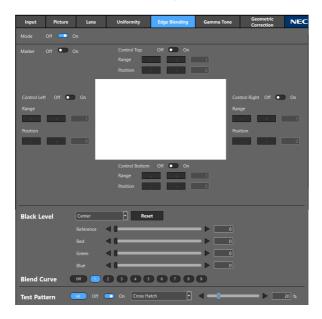


• You can rotate the display inside the adjustment range selection area to match the actual installation orientation of the projector.



The coordinates (0, 0) will be the following position according to the angle of rotation. 0°: Top left / 90°: Top right / 180°: Bottom right / 270°: Bottom left

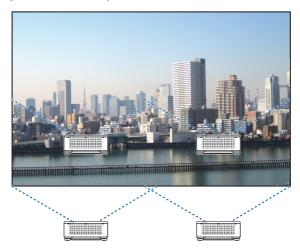
3-5. Adjusting the multi-screen boundary [Edge Blending]



Adjust the boundary of the picture for tiling projection by combining the pictures of multiple projectors.

Select the projector to be adjusted from the Projector List and carry out the adjustment one unit at a time.

Example of four projectors in a 2×2 layout:



Preparations:

Configure the same Preset and Gamma Correction settings for all projectors that perform Edge Blending.

- 1. Select a projector in the Projector List.
- 2. Select an input terminal on the "Input" screen and project the image.
- 3. Set the Preset and Gamma Correction on the "Picture" screen.

The recommended settings for NP-PA703UL are as follows.

Preset	Graphic
Gamma Correction	Natural

- 4. Turn on the Test Pattern in the "Edge Blending" screen to display the test pattern.
- 5. Configure the Preset and Gamma Correction to the same settings as those set in Step 3 on the "Picture" screen.

Repeat Step 1 to 5 to adjust the settings for all the projectors.

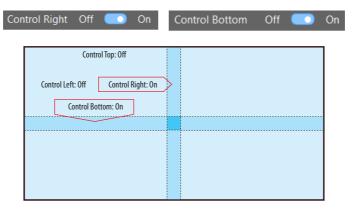
(1) Turn the mode to On.



The Edge Blending function will be enabled.

(2) Select the area to adjust.

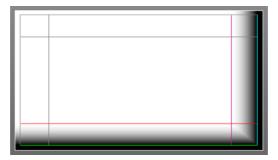
When adjusting the top left projector out of the 4 projectors that have been installed as shown in the diagram below, turn the right and bottom controls to On.



(3) Turn on the Marker.



Displays the lines of the 4 colors (Marker) in the adjustment image.



The cyan and green Marker indicates the edge of the area where the picture overlaps while the magenta and red Marker indicates the Range (area/width).

(4) Adjust the Position and Range and set the overlapping area.

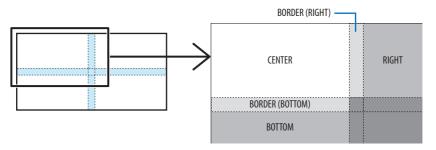


Besides adjusting the position with the -/+ buttons, you can also drag the Marker inside the adjustment image with the mouse to adjust its position.

(5) Adjust the Black Level.

If the difference in brightness of the section where the picture overlaps is a concern, adjust the Black Level for each area.

The Black Level adjustment of the top left projector is as shown in the diagram.



Select the location to adjust from the dropdown list and adjust the Black Level with the Reference, Red, Green and Blue adjustment bars. Select Reset to delete the adjustment value.



(6) Select the Blend Curve.

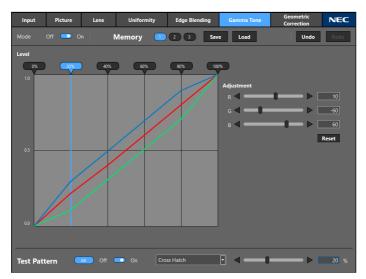
Adjust the change in gradation of the section where the picture overlaps to make the boundary of the projection image less distinct.

Select the optimal curve setting from the 9 types available.



Once you have finished adjusting the first projector, select the second projector in the Projector List and repeat Steps (1) to (6). Adjust the rest of projectors in the same way.

3-6. Adjusting the gamma tone of the picture [Gamma Tone]



Adjust the intermediate tone colors between projectors. Select the target projector to adjust from the Projector List.

(1) Turn the mode to On.



The Gamma Tone function will be enabled.

(2) Select the adjustment point.

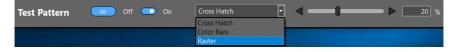
Refer to the RGB adjustment value flag displayed in the gamma curve display area and select the gradation to adjust from 0%, 20%, 40%, 60%, 80% or 100%.



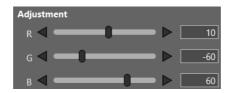
(3) Turn the Test Pattern to On.

Select a raster from the drop-down list to display the Raster test pattern on the projection screen.

Apply the gradation level selected in the step (2) to the test pattern.



(4) Adjust the R, G, B levels.



Change the R, G, B values while observing the projection screen and adjust them so that they are optimal.

- Click the Reset button to reset the RGB adjustment values of the selected level. Undo records will also be reset.
- Click the Undo button to return to the previous adjustment value. A maximum of up to 50
 values can be recorded.
- Click Redo button to adjust the value again. Redo can be carried out a maximum of 50 times.

Similarly, adjust the other gradations and other projectors where necessary so that the colors are uniform among all the projectors.

References

Adjustment values can be saved in 3 ways.



Select the storage destination from 1, 2 or 3 and click the Save button.

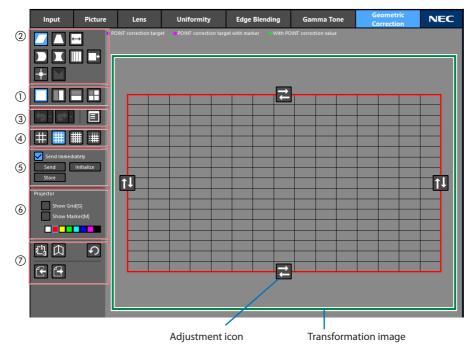
To invoke the adjustment value, select the storage location from 1, 2 or 3 and click the Load button. The Undo records will be reset then.

You can also invoke the saved adjustment value for 1, 2, and 3 by using "GAMMA (TOOL)" from the on-screen menu of the projector.

Example of NP-PA703UL:



3-7. Correcting the distortion of the projection screen [Geometric Correction]



Corrects the distortion of the screen when projecting onto a screen with a special shape such as a cylindrical or spherical surface etc.

- (1) Use the "Split buttons" (1) to select the area of correction.

 When the screen is split, blue-violet correction points are displayed in the correction area.
- (2) Use the "Correction type buttons" (2) to select the type of correction.

 The display and position of the adjustment icon vary depending on the correction method.
- (3) Drag the Adjustment icon to change the Transformation image and adjust the screen distortion.

You can also adjust with the shortcut key (Ctrl + arrow key).

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	No split
	Split the screen into 2 halves on the left and right
	Split the screen into 2 halves at the top and bottom



Split the screen into 4

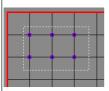
NOTE:

- Splitting the image limits the direction of correction, and there are some correction types that cannot be used.
 - ② Correction type buttons: Select the type of correction.

		Left/right direction	Up/down direction
	This performs slant correction.		direction
	This performs keystone correction.		1
\leftrightarrow	This performs amplitude correction.		
	This performs bowing correction.		
	This performs pincushion correction.		1
	This performs correction of linearity.		=
	This performs position correction.		

This performs point correction.

Move the selected correction point to correct.



Mouse operation	Action
Click and drag a point other than the intersec-	Select correction range
tion point (background) on the grid	
Click intersection point on grid	Select a correction point
Click a point other than the intersection point	Clear all correction points
(background) on the grid	
Click and drag a correction point	Correction
Ctrl + click and drag a point other than the in-	Add a correction point with-
tersection point (background) on the grid	in the specified range
Ctrl + click the intersection point on the grid	Add a correction point
Ctrl + Shift + click and drag a point other than	Clear a correction point
the intersection point (background) on the grid	within the specified range
Ctrl + Shift + click a correction point	Clear correction point



Keyboard operation	Action
Shift + arrow key	Select correction range
Ctrl + arrow key	Correction
Arrow key	Move correction point

NOTE:

- Point correction also affects other points besides the selected correction point. Perform correction for multiple points instead of just one point.
- This operation cannot be performed when the correction area is selected with the split button.

Correct for Corner Wall Screen.



NOTE:

- Click the Corner Wall Screen button and select whether to split the screen into 2 halves on the Left and Right Walls or at the Upper and Lower Walls.
- This operation cannot be performed when the correction area is selected with the Split button.
- ③ Undo/Redo button, Parameter button



Return to the previous adjustment value. A maximum of up to 50 values can be recorded.



Adjust the value again.



Display the correction values list screen.

(4) Grid button: Change the display grid number of the deformed image.



The number of grids is reduced, resulting in a coarse display.



The standard number of grids.



The number of grids is increased, resulting in a fine display.

Configure the user settings of the grid.

NOTE:

 Depending on the projector, the user setting function of the grid is not available.



[#]##]	Select the grid display to refer to.
<u>/</u>	Select / clear all grids.
	Select / clear the horizontal and vertical grids.
	" " will be displayed in the selected grid.
	Click the Save button to save the user settings.

(5) Send/Save button

Send	Send the correction value to the projector. If you tick the "Send Immediately" checkbox, the correction value will be sent each time you perform the correction operation without you having to press the send button.	
Initialize	Initialize all correction values and send them to the projector. NOTE: The corrections that have been saved in the projector will not be deleted.	
Store	Store the correction value in the projector. Select the storage destination from 1, 2 or 3. The saved correction values can be called with the mode setting button	

6 Select projector display

Show	Tick the checkbox to display a grid on the projection screen of the connected
Grid	projector.
Show Marker	Tick the checkbox to display a marker on the projection screen of the connected
	projector.
	You can change the color of the marker with the color palette.

NOTE:

• Depending on the projector, Show Grid and Show Marker are not available.

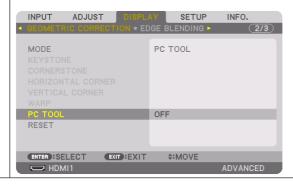
⑦ Menu button

Mode setting button

Select 1, 2 or 3 to recall the correction value saved in the projector using "Store". The 1, 2 or 3 correction value can also be recalled from the "PC TOOL" in the onscreen menu of the projector.

Example of NP-PA703UL:





Corner Wall Screen button

Select the split mode of the Corner Wall Screen (Left and Right Walls/Upper and Lower Walls).



NOTE:

- Splitting the image limits the direction of correction, and there are some correction types that cannot be used.
- When the Corner Wall Screen has been changed, the information of the "Undo" and "Redo" function will be cleared.



Reset button

Return the correction values to the factory default condition.



File save button

Save the correction data file in your computer.



File read button

Load the correction data saved in your computer using the file save button and send the data to the projector.

4. Troubleshooting

When a problem occurs	Carry out the following checks
Projector is not recog- nized	 Is the projector that you are using compatible with ProAssist? (→ Page 4) Are the computer and projector connected correctly to the network? Have you turned on the projector?
Picture is distorted	 Are the projectors installed correctly? To correct a distorted image, perform Geometric Correction. (→ Page 32)
The brightness of the screen differs for each of the projectors in tiling projection	 Adjust the brightness with the Light Mode and Light Adjust. (→ Page 19) Adjust Ref. White Balance. (→ Page 20)
The screens of the projectors differ in color in tiling projection	Adjust Gamma Tone. (→ Page 30)
The color is not uniform locally on the projection screen	 Adjust Uniformity. (→ Page 22) If the projector is a LCD-type projector, the non-uniformity of the brightness of the LCD panel may appear as a non-uniform color on the projection screen. This is a characteristic of the LCD panel and is not a malfunction. The non-uniformity in color can be reduced by adjusting the Uniformity.
I want to copy the reg- istration details of the Projector List to another computer	 You can export the registration details of the Projector List to the LIST file or import them into another computer. (→ Page 17)
The projector will not respond when you perform menu selection or a variety of settings and adjustments successively.	Much communications at a time may result in your waiting for a response from the projector. If this happens, wait until the process is finished.
Communication error is displayed	 Use the projector that has ProAssist installed to check for the network connected to the projector. Refer to the projector's user's manual to check if your projector supports the function causing a communication error.

5. Others

Trademarks

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- Windows is a registered trademark or trademark of Microsoft Corporation in the US and other countries.
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