



Epson Projector Professional Tool Operation Guide

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Introduction to the Epson Projector Professional Tool Software

See the information here to learn more about the Epson Projector Professional Tool software.

► **Related Links**

- "Epson Projector Professional Tool Features" [p.4](#)

The Epson Projector Professional Tool software allows you to adjust and control images projected from network projectors, and monitor the status of the projectors using your computer.



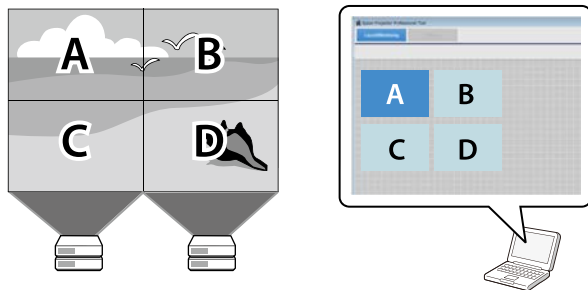
Depending on a projector's firmware version, you may encounter some limitations when using this software.

» Related Links

- "Projector Panel Feature" [p.4](#)
- "Lens Control Feature" [p.4](#)
- "Geometry Correction Feature" [p.4](#)
- "Edge Blending and Color Uniformity Features" [p.5](#)
- "Camera Assist Feature" [p.5](#)
- "Projector Operations or Settings" [p.6](#)
- "Apply Settings to Multiple Projectors Simultaneously" [p.6](#)
- "Monitoring Feature" [p.6](#)

Projector Panel Feature

You can visually select the projector you want to adjust and control on your computer screen by arranging the projector panel according to the actual projected image.



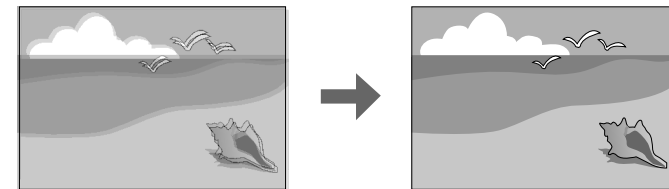
You can also specify a layout drawing for a background image on the adjustment screen, which helps you distinguish the projectors.

» Related Links

- "Adding a Projector to a Project" [p.12](#)
- "Adjusting the Layout of the Projector Panel" [p.13](#)

Lens Control Feature

You can adjust the focus or the position of the lens installed on the projector.



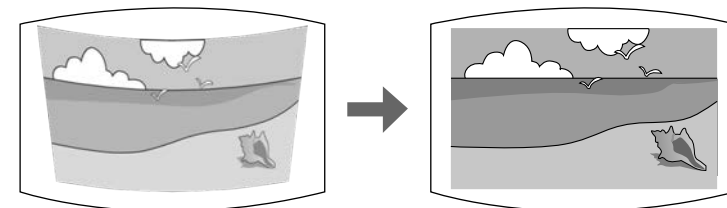
» Related Links

- "Lens Control" [p.18](#)

Geometry Correction Feature

You can correct image distortion when projecting on a curved or right-angled screen using the Geometry Correction feature. You can also undo and redo the adjustment.

You can also export the current **Correction Type** setting value to a file and import it to another projector.

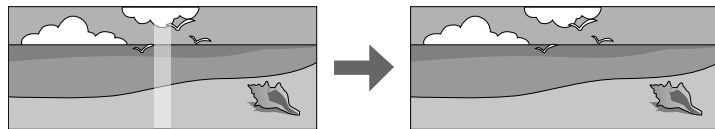


» Related Links

- "Geometry Correction" [p.21](#)

Edge Blending and Color Uniformity Features

You can create a single seamless image from multiple projectors using the Edge Blending feature, and you can reduce color tone differences among images using the Color Uniformity feature.



» Related Links

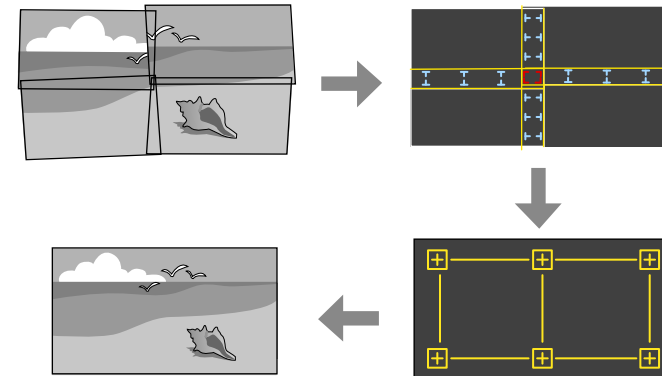
- "Edge Blending" [p.20](#)
- "Image" [p.22](#)

Camera Assist Feature

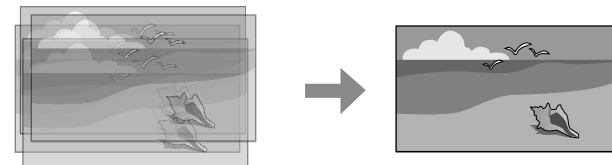
You can automatically adjust the projected image using the following camera assist features along with projector's built-in camera or optional external camera. Some features may not be available depending on the projector model.

- **Geometry Correction Assist - Tiling Function** wizard allows you to easily and quickly create a single seamless image from multiple projectors when projecting on a flat screen. By selecting the appropriate Edge Blending setting and adjusting the approximate size and position of your projected

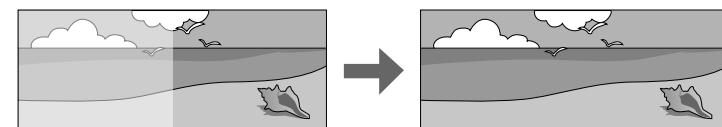
image, the projectors automatically combine these images and correct the image shape.



- **Geometry Correction Assist - Stacking Function** wizard allows you to easily and quickly create bright image by overlapping the images of multiple projectors. By adjusting the approximate size and position of your projected image, the projectors automatically overlap these images as one image.



- **Screen Matching** feature allows you to correct differences in the tint and brightness among projectors to optimize the display quality of the combined image.



- **Color Calibration** feature allows you to automatically adjust the color tone of the entire screen based on the default color settings. This compensates for deterioration in color tone over time.

» **Related Links**

- "Camera Assist Features" [p.28](#)
- "Adjusting the Screen with the Geometry Correction Assist - Tiling Function" [p.28](#)
- "Adjusting the Screen with the Geometry Correction Assist - Stacking Function" [p.31](#)

Projector Operations or Settings

You can control basic projector operations such as turning the power on or off, and displaying a Test Pattern from your computer screen.

You can also select projector settings necessary for the projector installation. After selecting settings, you can export the current projector setting values to a file and import it to another projector.

Apply Settings to Multiple Projectors Simultaneously

You can apply the following settings to multiple projectors:

- **Power/Source**
- **Shutter**
- **On-Screen**
- **Test Pattern**
- All features in the **Initial Setting** tab
- All features in the **Edge Blending** tab
- All features in the **Image** tab

Monitoring Feature

You can visually check the status of one or more projectors, such as the power, current input source, or other projector status information. This lets you monitor projector operations and receive alerts should any errors or warnings occur.

» **Related Links**

- "Monitoring Projectors" [p.37](#)

Setting Up the Software for the First Time

Follow these instructions before connecting a computer to the projector over a network.

► Related Links

- "Installing the Software" [p.8](#)

Check the system requirements necessary to run the software, and then install the software.



Some software features may not be available unless you are using the latest software version and the latest firmware for your projector. Read this guide for more information on software features and limitations.

► **Related Links**

- "System Requirements" [p.8](#)
- "Installing the Epson Projector Professional Tool Software (Windows/Mac)" [p.8](#)

System Requirements

Your computer must meet the following system requirements to use the Epson Projector Professional Tool software.

Requirement	Windows	Mac
Operating system	Windows 8.1 <ul style="list-style-type: none"> • Windows 8.1 (32- and 64-bit) • Windows 8.1 Pro (32- and 64-bit) • Windows 8.1 Enterprise (32- and 64-bit) Windows 10 <ul style="list-style-type: none"> • Windows 10 Home (32- and 64-bit) • Windows 10 Pro (32- and 64-bit) • Windows 10 Enterprise (32- and 64-bit) 	macOS <ul style="list-style-type: none"> • 10.13.x (64-bit) • 10.14.x (64-bit) • 10.15.x (64-bit) • 11.00.x (64-bit)

Requirement	Windows	Mac
CPU	Intel Core2Duo 1.2GHz or faster (Intel Core i3 or faster recommended)	Intel Core2Duo 1.2GHz or faster (Intel Core i5 or faster recommended)
Memory	1GB or more (2GB or more recommended)	2GB or more (4GB or more recommended)
Display	Resolution between 1280 × 768 and 1920 × 1080	

Installing the Epson Projector Professional Tool Software (Windows/Mac)

Download and install the Epson Projector Professional Tool software on your computer.

Visit epson.sn to download the latest version of the Epson Projector Professional Tool software.



- You need administrator authority to install the Epson Projector Professional Tool software (Windows).

- 1** Download the latest version of the Epson Projector Professional Tool software.
- 2** Follow the on-screen instructions.

Creating and Adjusting Projector Projects

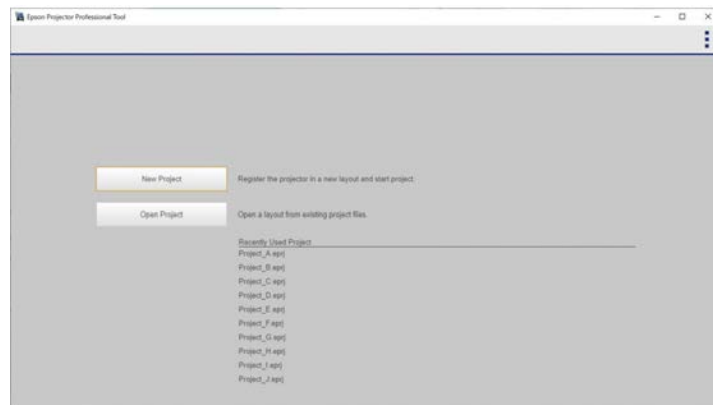
Follow these instructions to create a projector project, register projectors to the project, and adjust the image layout.

► **Related Links**

- "Creating a Project" [p.10](#)
- "Adding a Projector to a Project" [p.12](#)
- "Adjusting the Layout of the Projector Panel" [p.13](#)

You can save projector connection information and the layout of the projected image as a project. Creating separate projects allows you to save projector settings depending on the installation environment.

When you start the Epson Projector Professional Tool software, the following screen is displayed.




- Select **New Project** to create a new project to register projectors you want to control.
- Select **Open Project** to open a previously saved project.
- Select a previously created project from the **Recently Used Project** list.

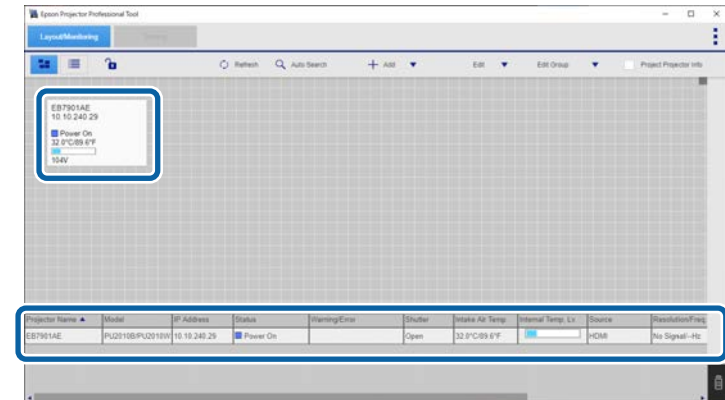
Attention

- If you change your computer's network adapter settings before starting the Epson Projector Professional Tool software, the software may not start. Restart your computer first.
- If the MAC address is changed after creating a project, an unintended projector may appear in the project.



To change the language or color theme for the software, select  in the upper right corner and select the **Option** setting.


When you create a project, the software automatically searches for network projectors on the same subnet and displays up to 50 detected projectors as panels and a list on the **Layout/Monitoring** tab.




Each projector panel or the projector list on the bottom contains the following information:

- Projector name
- IP address
- Model name
- System error
- Shutter status
- Projector status
- Intake air temperature
- Internal temperature level
- Input source
- Signal/frequency
- AC voltage (supported models only)
- Status of optional external camera (supported models only)
- Serial number (supported models only)
- Group name (only when a projector group has been created)



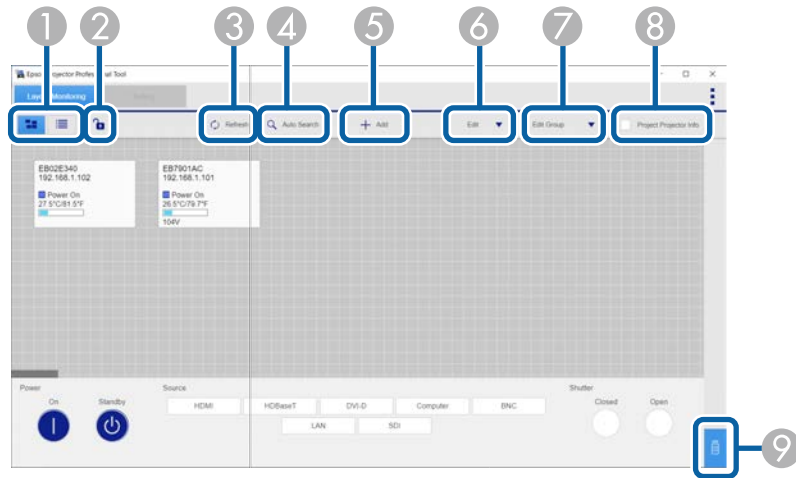
- Depending on the software settings, the information displayed in a projector panel may vary.
- The information displayed in the projector panels or lists updates automatically at an interval you set. To change the interval, select  in the upper right corner and select the **Option** setting. You can select an interval time from 5 to 60 seconds.



Select the projector panel you want to add to the project and select the following buttons as necessary.


 You can select multiple projectors in the following ways:

- Select multiple projector panels by dragging them on your computer screen.
- Select each projector panel by pressing the Ctrl (command) + Enter keys, or the Ctrl (command) key + the spacebar on the keyboard. (You can select and deselect a projector panel by pressing the Enter key or the spacebar each time.)

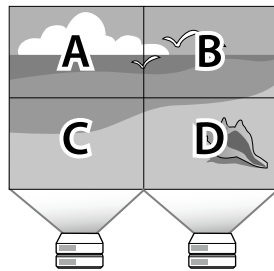
You can zoom in or zoom out the projector panels by pressing the + or - keys, or the Ctrl (command) key + mouse wheel.




1		Switches the view between one for arranging the projector panel and another for monitoring the projectors.
2		Locks/unlocks the layout of the projector panels.
3	Refresh	Updates the projector information.
4	Auto Search	Searches for network projectors on the same subnet.

5	Add	<ul style="list-style-type: none"> • Projector: Adds a projector manually by specifying the projector's IP address. • Background image: Lets you specify a background image (PNG/JPG/BMP) for the Layout/Monitoring tab. Using a layout drawing for the background helps you distinguish the projectors.
6	Edit	<p>Adjusts the projector's settings.</p> <ul style="list-style-type: none"> • Rename Projector: Lets you edit the name of the selected projector. • Remove: Deletes the projector from the project. You can also delete the background image. Click the image and then select this menu. • Authentication: Performs authentication manually when the projector status is Not Authenticated. If you set the same password for multiple projectors, you can perform authentication for multiple projectors at one time by selecting multiple projector panels before selecting this button. If you set the default Web Control password for the projector, the projector is automatically authenticated. • Set Panel Items: Lets you select the information which is displayed on the projector panel.
7	Edit Group	<p>Sets up projectors in a group so you can control them simultaneously.</p> <ul style="list-style-type: none"> • Group: Creates a group of the projectors you selected. When you want to use the camera assist feature, you can also select projector's position or stacking settings. • Ungroup: Removes the group of the projector you selected. • Re-edit Group: Lets you edit the created projector group.
8	Project Projector Info	Projects the IP address and the name of the projector you selected.
9		Opens the menu to control the projector power, input source, and shutter settings.

You can adjust the layout of the projector panel by dragging and dropping the individual projector panels on your computer screens according to the actual projected image. When you select multiple projector panels, you can move them at one time.

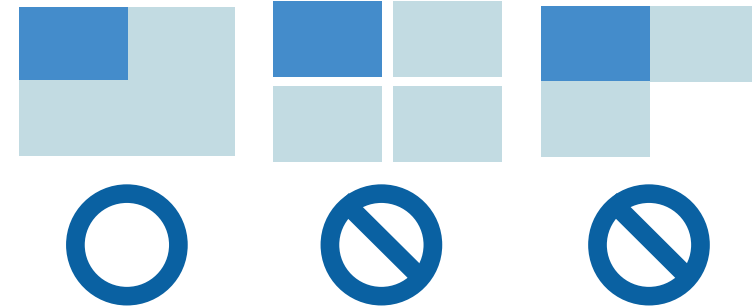


When you have finished making adjustments of the layout, select  in the upper right corner and select the **Project** setting to select **Save Project**.

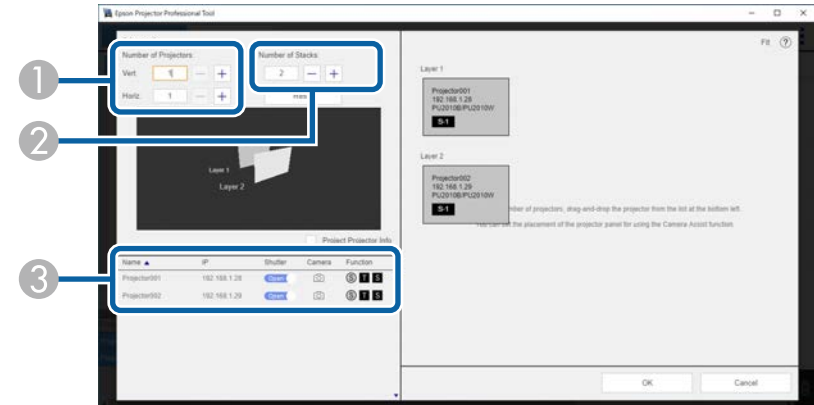
» **Related Links**

- "Tiling and Stacking Group Settings" [p.13](#)

- The shape of the selected panels forms a rectangle.



When you want to use the camera assist feature, you need to specify each projector's position or layer settings. Select **Edit Group** in the **Layout/Monitoring** tab and select **Tiling and Stacking Settings**.



Tiling and Stacking Group Settings

When you need to group projectors so you can use the Camera Assist features, make sure you arrange the panels using the following criteria:

- All the projectors must support the Camera Assist features you want to use.
- There are no gaps between the panels.

①	Number of Projectors	Specifies the number of projectors you want to arrange in the tiling group.
②	Number of Stacks	Specifies the number of layers you want to overlap images to create one bright unified image.
③	Projector List	Displays the list of projectors in the group. Drag and drop the projector to the desired position and layer.

» Related Links

- "Adjusting the Screen with the Geometry Correction Assist - Tiling Function" [p.28](#)
- "Adjusting the Screen with the Geometry Correction Assist - Stacking Function" [p.31](#)

Adjusting Projected Images


See the following sections to select and adjust individual projector settings on the Epson Projector Professional Tool **Setting** tab.

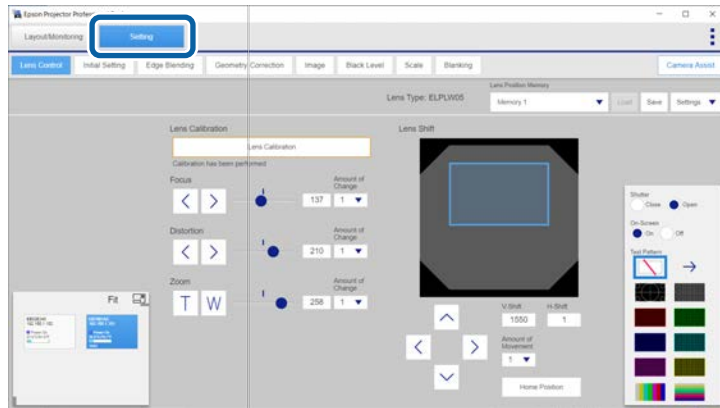
► **Related Links**

- "Projector Adjustment Options on the Software Screen" [p.16](#)
- "Screen Summary" [p.18](#)
- "Camera Assist Features" [p.28](#)

When you select the **Setting** tab, the following screen is displayed.

Select the projector you want to adjust from the list in the lower left corner of the screen. Then adjust the settings for that projector.




 To select the projector using your keyboard, press the W key to move your selection upward, the S key to move it downward, the A key to move it to the left, or the D key to move it to the right.

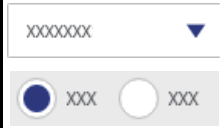




The following controls can apply to multiple projectors:


- **Shutter**
- **On-Screen**
- **Test Pattern**

The following table describes the types and usage of main buttons on the **Setting** tab.

	Adjust the value of settings. Select and hold the button to continue adjustments until you release the button. You can also adjust the settings by moving the  button.
	Adjusts each value on the Setting tab by entering the number.

	Selects a value from the options.
	Turns the setting on or off, or displays additional instructions or information.

 When you install the projector vertically, we recommend selecting **90 degrees to the right/90 degrees to the left** as the **Portrait Settings** to rotate the on-screen graphics according to the actual projected image while making adjustments. You will find **Portrait Settings** on the **Basic 2** tab of the **Initial Setting** tab.

You can select the Epson Projector Professional Tool software's general menu from  in the upper right.

Project	<ul style="list-style-type: none"> • Creates the project file using the New Project option. • Opens the saved project file using the Open Project option. • Saves the projector information and the layout of the projector panel to a file using the Save Project option.
Geometry Correction File	<ul style="list-style-type: none"> • Export: Exports the geometry correction settings for the current correction type to a file. You can also select more than one projector to export multiple files at once. • Import: Imports a geometry correction settings file. Only import a settings file to a projector of the same model with the same lens type, resolution, and firmware version.

Projector File	<p>Exports the projector settings to a file or imports a projector settings file. You can also export files from more than one projector at once. Note the following when exporting and importing settings:</p> <ul style="list-style-type: none"> You can export all settings except for Lens Control, Geometry Correction Memory, and Color Uniformity. Settings for the current Color Mode and input source are exported. When importing, the Color Mode and input source of the receiving projector will automatically change. Importing a settings file from a different projector model or a different firmware version is not supported. If you do so, some settings may not be copied and different setting values may be applied.
Shortcut	<ul style="list-style-type: none"> Settings: You can register the setting for one of the following items and target projectors as a shortcut: <ul style="list-style-type: none"> Shutter Power Test Pattern Fade-in (seconds) Fade-out (seconds) Display Background Lens Position Memory Geometry Correction Memory Source Execute: You can apply a shortcut to the target projectors at once.
Option	Selects the Epson Projector Professional Tool software's general settings.
Information	Displays the Epson Projector Professional Tool software's information.

Attention

- Do not adjust your projected image using the projector remote control or control panel at the same time that you adjust the image with this software. The settings displayed by the software may not reflect the actual settings. To update the displayed setting values, switch to a tab other than **Setting**, and then select the **Setting** tab again.
- Depending on the projector's status, the setting values may not be displayed on this software screen.
- If communication with the projector fails and the projector cannot receive the setting values you selected, the settings return to their original values.



If you want to adjust projector menu settings that cannot be set from this software, use the Epson Web Control software. To access Epson Web Control, double-click the projector panel, select the **Advanced** option, and then log in with the user name and password below. (Depending on a projector's firmware version, you may not be able to access Epson Web Control in this way.)

User name: EPSONWEB

Default password: See the projector's *User's Guide*.

Keyboard Shortcuts

When you adjust settings on each tab, you can use the following keyboard commands:

Keyboard command	Function
Tab	Move to the next setting.
Shift + Tab	Move to the previous setting.
F1 - F12	Selects a shortcut (1 to 12) to execute.

See the sections here to adjust the settings available on each tab of the **Setting** tab. See your projector *User's Guide* for details on the settings available for your projector.

» **Related Links**

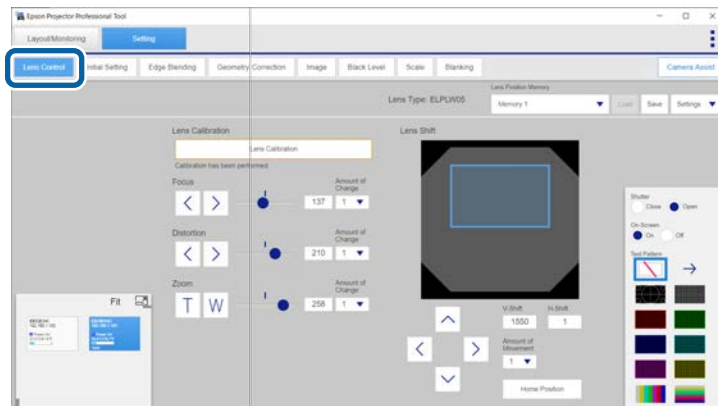
- "Lens Control" [p.18](#)
- "Initial Setting" [p.18](#)
- "Edge Blending" [p.20](#)
- "Geometry Correction" [p.21](#)
- "Image" [p.22](#)
- "Black Level" [p.25](#)
- "Scale" [p.26](#)
- "Blanking" [p.26](#)



- When adjusting the image height with the vertical lens shift, adjust it by moving the image from the bottom to the top. If you adjust it from the top to the bottom, the image position may move down slightly after adjusting.
- For best results, adjust the **Focus**, **Zoom**, or **Lens Shift** settings only after projecting an image for 20 minutes or more. This gives the image a chance to stabilize before you adjust it.
- You can register up to 10 memory settings to save adjustments for different lens types.
- You can adjust how much setting values change for each click using the **Amount of Change/Amount of Movement** setting.

Lens Control

You can adjust the projector's lens settings on the **Lens Control** tab.



Depending on the type of lens you installed, the available features or adjustment ranges may vary. And depending on a projector's firmware version, the image may appear longer horizontally in the preview image than in the actual image.

Keyboard Shortcuts

When you adjust settings on the **Lens Control** tab, you can use the following keyboard commands:

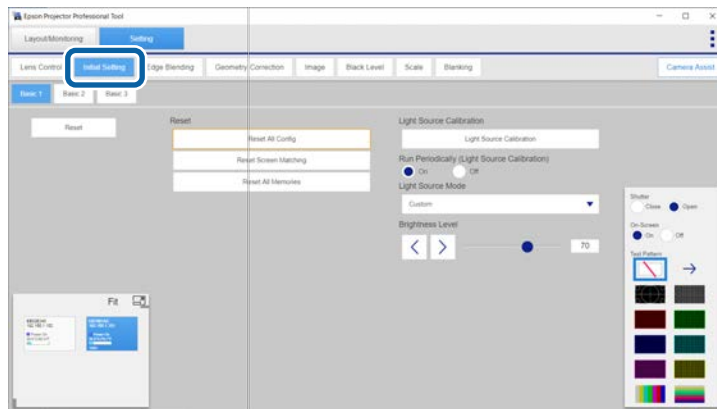
Keyboard command	Function
↑ / ↓ / ← / →	Moves the cursor on the adjustment items.
Ctrl (command) + Shift + [↑ / ↓ / ← / →]	Changes the adjustment value by one step for the selected setting.
Alt + ↑ / ↓ / ← / →	Changes the adjustment value by 10 steps for the selected setting.
Ctrl (command) + [↑ / ↓ / ← / →]	Changes the adjustment value using the increment you selected.

Initial Setting

You can select the initial values for the following projector settings on the **Initial Setting** tab:



- You can adjust settings for multiple projectors or groups on the **Initial Setting** tab. If you select different projector models, you can only adjust settings that are available on all selected projectors.
- Select **Reset** to reset settings in each tab.
- If you perform the following functions, the **Test Pattern** setting is disabled.
 - **Reset All Config**
 - **Reset Color Uniformity**
 - **Reset Screen Matching**
 - **Reset All Memories**
 - **Screen Type**
 - **Screen Position**
 - **EDID**
 - **Reset**



Basic 1 tab:

- **Light Source Calibration**
- **Run Periodically (Light Source Calibration)**
- **Light Source Mode**
- **Brightness Level**

In addition to the reset options in each tab, you can also reset settings using the following commands:

- **Reset All Config**
- **Reset Color Uniformity** (supported models only)
- **Reset Screen Matching** (supported models only)
- **Reset All Memories**

Basic 2 tab:

- **Projection**
- **Portrait Settings**
- **Screen Type**
- **Screen Position**
- **EDID settings**

Basic 3 tab:

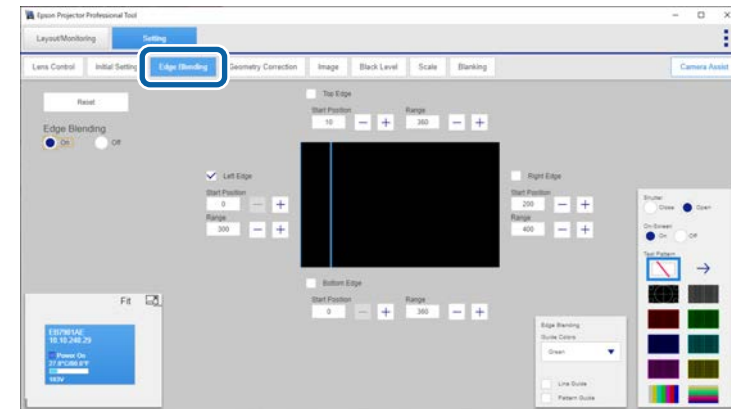
- **Display Background**
- **Start Up Screen**
- **Startup (Shutter)**
- **Standby (Shutter)**
- **Fade-in (seconds)/Fade-out (seconds)**
- **Shutter Timer**
- **Sleep Mode**
- **Standby Confirmation**
- **Indicators**
- **Beep**



- When you set **Constant Brightness** to **On** in the projector's menu, you cannot change **Light Source Mode** settings. Double-click the projector panel in the software and change the settings in the Epson Web Control screen.
- You can change the **Brightness Level** settings only when you set **Light Source Mode** to **Custom**.
- If you change any setting values while performing the fade-in or fade-out function, a difference might occur between the image on your computer screen and the actual projected image. Move to the other tab and return to the original tab to fix the error.
- When you reset all settings using **Reset All Config**, the following settings are not reset. Depending on your projector model, settings for **Color Uniformity** and **Color Matching** may also not be reset.
 - **Input Signal**
 - **Memory**
 - **User's Logo**
 - All settings on the **Network** menu
 - **Language**
 - **Date & Time**
 - **Panel Alignment**
 - **Lens Calibration**
 - **Color Calibration**
 - **Projector Grouping**
 - **Screen Matching**
 - **HDBaseT** (supported models only)



Select **Reset** to reset settings in the tab.



Before using the **Edge Blending** settings, select the **Image** tab and select **Multi-Projection** as the **Color Mode** setting.

Then select the **Edge Blending** tab, set the **Edge Blending** setting to **On**, and adjust the **Top Edge/Bottom Edge/Left Edge/Right Edge**, **Start Position**, and **Range** settings as necessary to blend the images together.

When projecting on a flat screen, you can also use the **Geometry Correction Assist - Tiling Function** wizard to automatically create a single seamless image from multiple projectors. Select the **Camera Assist** tab to start the wizard.

Keyboard Shortcuts

When you adjust settings on the **Edge Blending** tab, you can use the following keyboard commands:

Keyboard command	Function
↑ / ↓ / ← / →	Selects a value to adjust.
Ctrl (command) + [↑ / ↓ / ← / →]	Changes the adjustment value.

Edge Blending


You can use the adjustments on the **Edge Blending** tab to create a single seamless image from multiple projectors. Adjust the values to overlap the image sides as necessary.


» **Related Links**

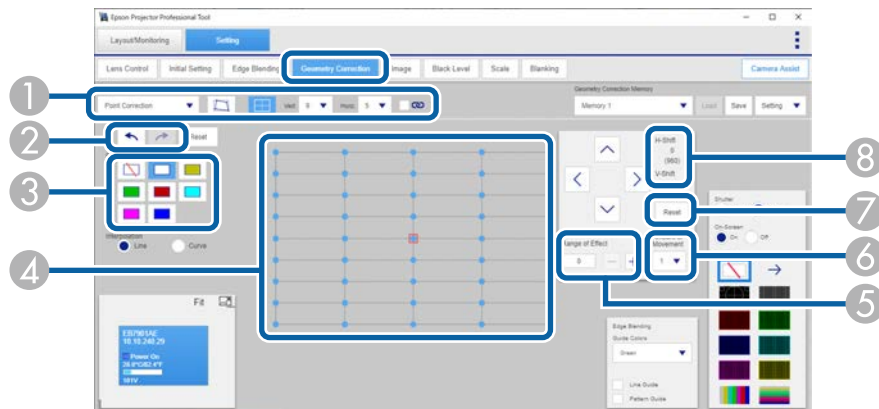
- "Adjusting the Screen with the Geometry Correction Assist - Tiling Function" p.28



Geometry Correction

You can correct image distortion using the settings on the **Geometry Correction** tab.



- When projecting on a flat screen, you can also use the **Geometry Correction Assist** (Tiling or Stacking) wizard to automatically correct an image shape projected from multiple projectors. Select the **Camera Assist** tab to start the wizard.
- You can import and export geometry correction settings you make in this screen. Select  in the upper right corner and select the Geometry Correction File option. Only import a settings files to a projector of the same model with the same lens type, resolution, and firmware version.
- Select **Reset** to reset the settings of the selected correction type or all correction types.



- 1 You can select the correction type. If the selected correction type can be used with other correction types or has optional settings, you can adjust the settings using the buttons on the right.
- 2 You can use  or  to undo or redo the adjustment.
- 3 You can change the grid color of the projected pattern by selecting the **Pattern Color** option (for supported correction type).
- 4 When you use the **Quick Corner**, **Curved Surface** (Correct Shape), **Corner Wall** (Horizontal Corner, Vertical Corner), **Point Correction**, or **Arc Correction** settings, you can also make adjustments by dragging and dropping a point on your computer screen, either within or outside of the projection area. When you use **Point Correction**, you can select and move up to 34 points simultaneously.
- 5 You can specify the number of points that move along with the specific point movement.
- 6 You can select the degree of the point movement to fine-tune your adjustments.
- 7 You can reset the correction values.
- 8 Two values are shown. The top value is the relative coordinate value, which is the amount of point movement. The lower value in parentheses is the absolute coordinate value of the selected point in the panel.

For example, when you use **Quick Corner** and then switch to **Point Correction**, the relative coordinate value changes, but the absolute coordinate value does not change. In this state, if you perform **Point Correction**, the absolute coordinate value is the same in **Quick Corner** and **Point Correction**, but the relative coordinate value is different for each.

Depending on the projector model, an absolute coordinate value and a relative coordinate value may not be displayed. The amount of point movement may be displayed instead.

By using several correction types in combination, you can first make approximate corrections, and then make precise corrections as described in the examples below.

- After you use **Curved Surface** or **Corner Wall** adjustments, you can perform **Quick Corner**, and then **Point Correction**.
- After you use **Quick Corner**, you can perform **Point Correction**.



- If a large amount of adjustment is performed, the focus may not be uniform even after making adjustments.
- When **4K Enhancement** is activated or a 4K signal is input, you cannot use **Curved Surface**, **Corner Wall**, or **Point Correction**.
- When you adjust the **Linearity** setting in the **Curved Surface** correction, you may not be able to adjust the correction point to the maximum depending on other selected correction settings.
- You can register up to three **Memory** settings for each projector to save different types of adjustments.
- Depending on the projector model, the operation speed of **Point Correction** may be slow. To improve the operation speed, try



selecting as the **Pattern Color** setting.

Keyboard Shortcuts

When you adjust settings on the **Geometry Correction** tab, you can use the following keyboard commands:

Keyboard command	Function
↑ / ↓ / ← / →	Moves the cursor on the point or edge of the image in the up, down, left, or right direction.
Shift + [↑ / ↓ / ← / →]	Selects multiple points.
Esc	Deselects the cursor on the point.
1 - 7 (Num)	Selects the amount by which you want each adjustment step to increment the changes. <ul style="list-style-type: none"> • 1 = [1] • 2 = [5] • 3 = [10] • 4 = [15] • 5 = [20] • 6 = [25] • 7 = [30]

Keyboard command	Function
Ctrl (command) + [↑ / ↓ / ← / →]	<ul style="list-style-type: none"> • Adjusts the point using the increment you selected using the 1 to 7 number keys. (Press and hold the buttons to adjust more quickly.) • Adjusts the edge of the image.
Ctrl (command) + Shift + [↑ / ↓ / ← / →]	Adjusts the point by one step. (Press and hold the buttons to adjust more quickly.)
Alt + [↑ / ↓ / ← / →]	Adjusts the point by 10 steps. (Press and hold the buttons to adjust more quickly.)
i	Initializes the point settings.
Alt + s	Registers the Memory settings.
Alt + l	Loads the Memory settings.
Ctrl (command) + z	Undoes the adjustment.
Ctrl + y (command + shift + z)	Redoes the adjustment.

» Related Links

- "Adjusting the Screen with the Geometry Correction Assist - Tiling Function" [p.28](#)
- "Adjusting the Screen with the Geometry Correction Assist - Stacking Function" [p.31](#)

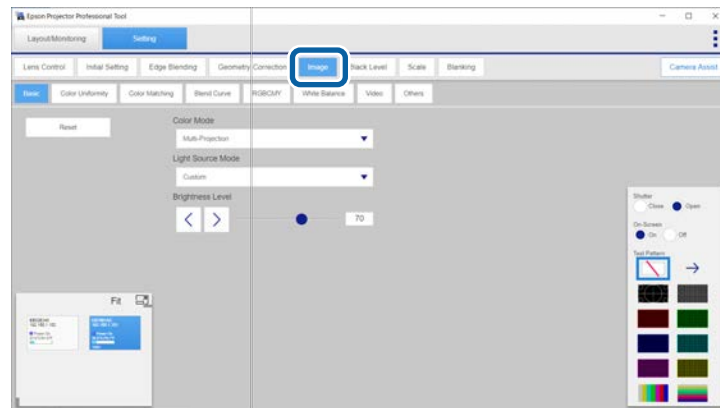
Image

You can adjust the following image settings on the **Image** tab. You can also adjust the settings for multiple projectors or groups simultaneously on the **Image** tab. If you select different projector models, you can adjust only settings that are available on all selected projectors.



- You can also perform the following automatic corrections on the projector or group you selected. Select the **Camera Assist** tab to perform the automatic correction.
 - **Screen Matching**
 - **Color Calibration**
- Select **Reset** to reset settings in each tab.
- If you perform the following functions, the **Test Pattern** setting is disabled.
 - **Color Uniformity**
 - **Image Processing**
 - **Frame Interpolation**
 - **Deinterlacing**
 - **Reset**

- **RGBCMY**
- **White Balance**
- **Video** settings
 - **Image Processing**
 - **Frame Interpolation**
 - **Deinterlacing**
- **Others** settings
 - **Brightness**
 - **Contrast**
 - **Color Saturation**
 - **Tint**
 - **Light Source Control**
 - **Response Speed**



- **Basic** settings
 - **Color Mode**
 - **Light Source Mode**
 - **Brightness Level**
- **Color Uniformity**
- **Color Matching**
- **Blend Curve**



- When selecting multiple projectors, you can apply the **RGBCMY**, **Color Matching**, **Color Uniformity**, or **Blend Curve** setting to all projectors selected.
- When adjusting the **Color Uniformity** settings, the image may become distorted. The image is restored once adjustments are complete.
- When you set **Constant Brightness** to **On** in the projector's menu, you cannot change the **Light Source Mode** setting and the **Brightness Level** settings.
- You can change the **Brightness Level** settings only when you set **Light Source Mode** to **Custom**.
- You can change the **Dynamic Contrast** settings only when you set **Color Mode** to **Dynamic** or **Cinema**.
- You can select **Fast 1** as the **Image Processing** setting only when you set **Deinterlacing** to **Video** or **Film/Auto**.
- You cannot change the **Frame Interpolation** settings in the following situations:
 - The input signal is higher than WUXGA.
 - **4K Enhancement** and **Scale** are enabled.
 - **Edge Blending** is set to **On**.
 - **Image Processing** is set to **Fast 1** or **Fast 2**.
- You cannot change the **Deinterlacing** settings in the following situations:
 - **Image Processing** is set to **Fast 2**.
 - The input signal is other than 480i, 576i, or 1080i.

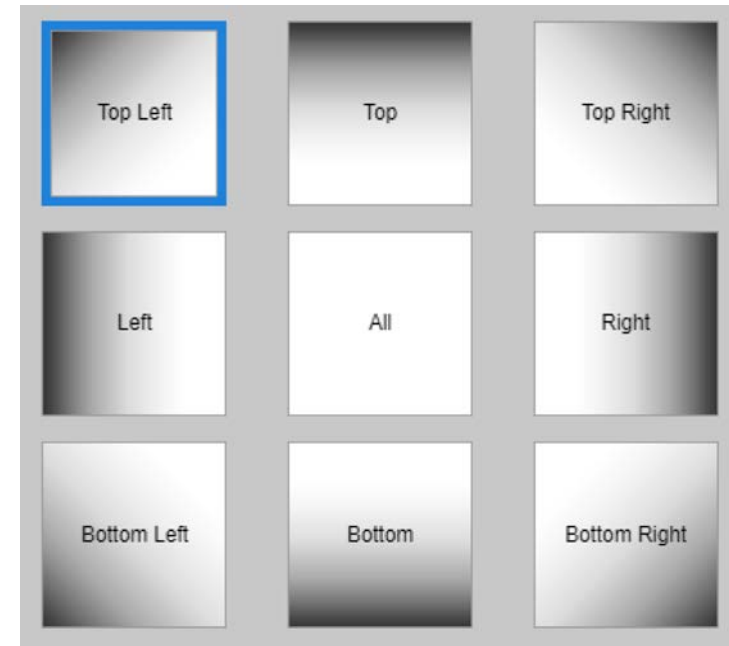
» Related Links

- "Color Uniformity Option" [p.24](#)
- "Color Matching Option" [p.25](#)

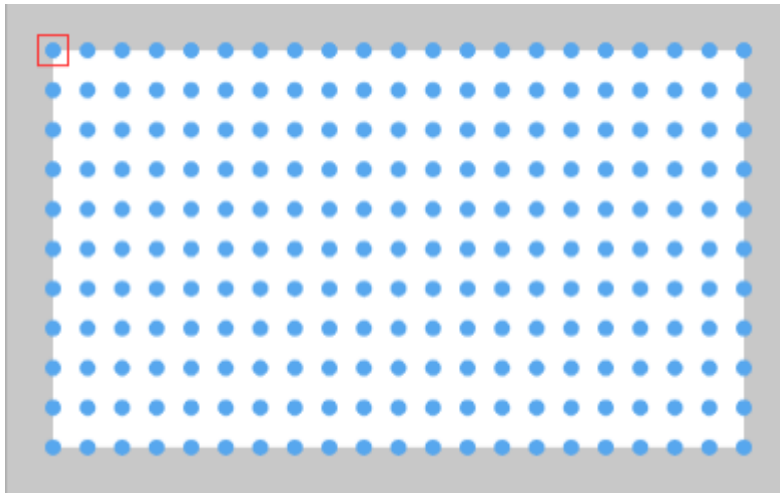
Color Uniformity Option

You can select the adjustment area by using the **Adjustment method** settings in the **Color Uniformity** tab.

- **Gradation adjustment** allows you to select the adjustment area from nine regions.





- **Flexible adjustment** allows you to select the adjustment area flexibly by selecting the points.



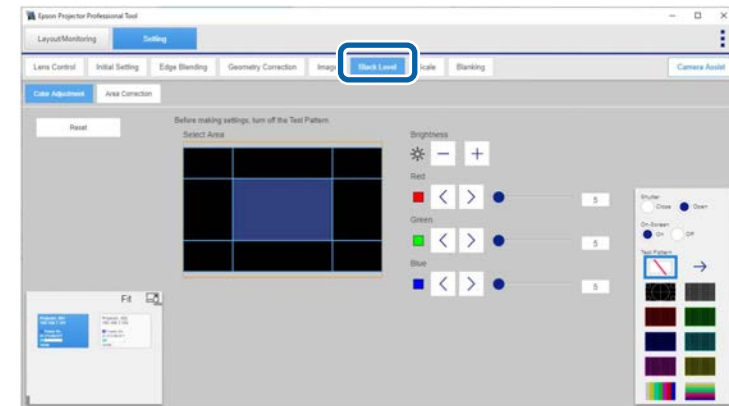
Color Matching Option

You can select the pattern type you want to view to confirm your settings by using the **Pattern Display** settings in the **Color Matching** tab.

- : Displays a smooth image with gradations applied to the overlapped image area.
- : Clearly displays the center of the overlapped image area.

Black Level

You can adjust the brightness and color tone for the area where the images do not overlap to create a seamless image.



- When you turn off **Edge Blending** or have not selected the edge of the image, you cannot adjust the **Black Level** setting.
- When multiple screens are overlapping, adjust based on the area with the most overlap (the brightest area).
- If the **Geometry Correction** value is large, you may not be able to adjust the **Black Level** setting.
- If you change the **Top Edge/Bottom Edge/Right Edge/Left Edge** settings, the **Black Level** setting returns to its default value.
- During automatic Screen Matching adjustments, previously selected **Color Adjustment** settings may change.
- Select **Reset** to reset settings in each tab.
- If you adjust the **Black Level** settings, the **Test Pattern** setting is disabled.

Keyboard Shortcuts

When you adjust settings on the **Black Level** tab, you can use the following keyboard commands:

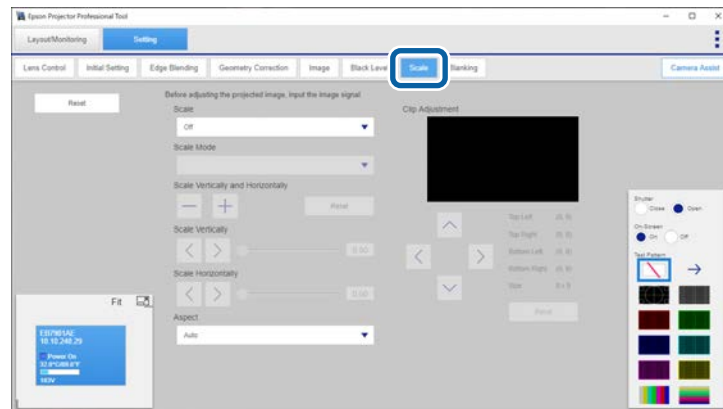
Keyboard command	Function
↑ / ↓ / ← / →	<ul style="list-style-type: none"> Selects an image adjustment area (Color Adjustment tab). Moves the cursor on a line or point of the image (Area Correction tab).
Enter	Switches selection between a line and points (Area Correction tab).
Ctrl (command) + [↑ / ↓ / ← / →]	Moves a line or point (Area Correction tab).



- Depending on a projector's firmware version, the **Aspect** setting may not be available.
- When no input signal is received, you cannot adjust the **Scale** settings.
- Select **Reset** to reset settings in the tab.
- If you adjust the **Scale** settings, the **Test Pattern** setting is disabled.

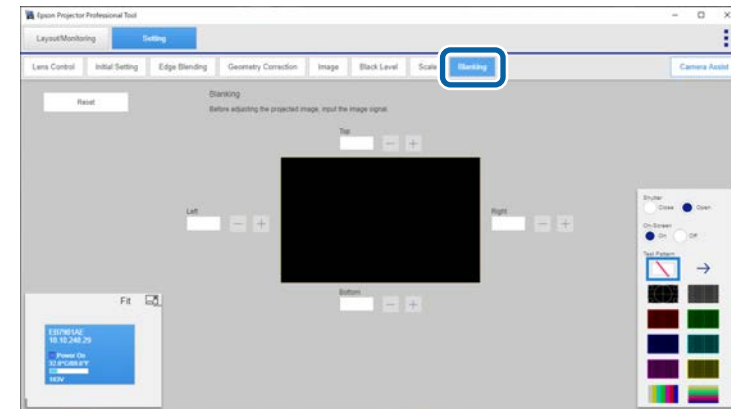
Scale

You can crop and/or scale portions of the image that the projectors are combining together.



Blanking

You can hide a specific area of the projected image you select.



- When no input signal is received, you cannot adjust the **Blanking** settings.
- Select **Reset** to reset settings in the tab.
- If you adjust the **Blanking** settings, the **Test Pattern** setting is disabled.

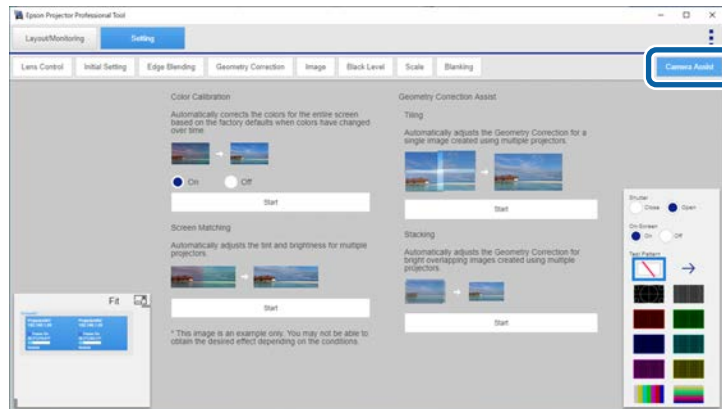
Keyboard Shortcuts

When you adjust settings on the **Blanking** tab, you can use the following keyboard commands:

Keyboard command	Function
↑ / ↓ / ← / →	Selects an edge to adjust.
Ctrl (command) + [↑ / ↓ / ← / →]	Changes the adjustment value.

You can automatically adjust the projected image using the projector's built-in camera or optional external camera.

To use the **Camera Assist** features, go to the **Setting** tab and select the **Camera Assist** tab. You can perform the features by following the on-screen instructions.



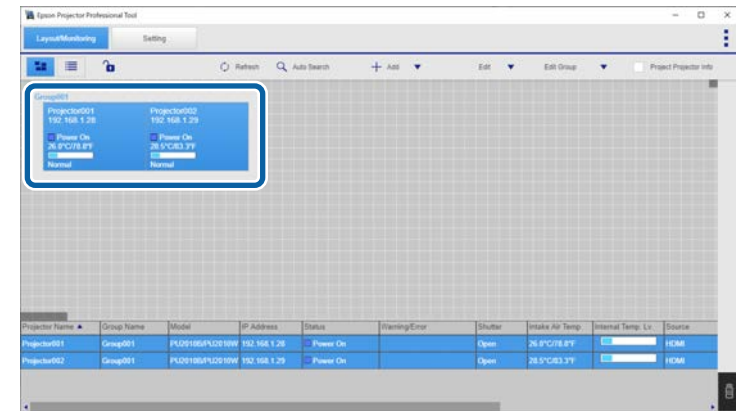
▶ Related Links

- "Adjusting the Screen with the Geometry Correction Assist - Tiling Function" [p.28](#)
- "Adjusting the Screen with the Geometry Correction Assist - Stacking Function" [p.31](#)
- "Keyboard Shortcuts for the Geometry Correction Assist" [p.34](#)
- "Operating Conditions for the Geometry Correction Assist" [p.34](#)
- "Operating Conditions for Screen Matching/Color Calibration" [p.35](#)
- "Solving Camera Assist Problems" [p.35](#)

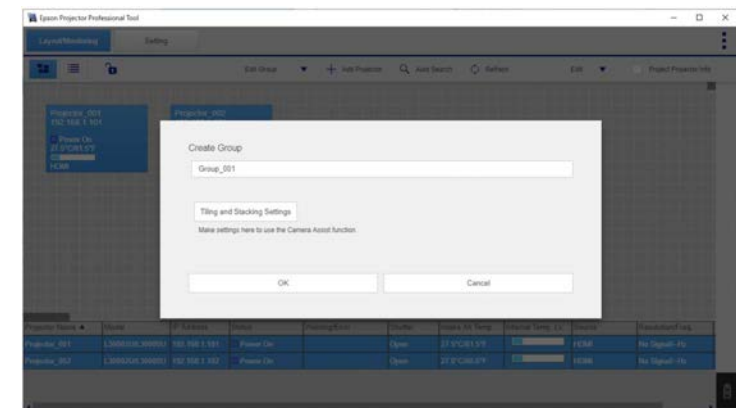
Adjusting the Screen with the Geometry Correction Assist - Tiling Function

You can use the **Geometry Correction Assist - Tiling Function** wizard to easily and quickly create a single seamless image from multiple projectors when projecting on a flat screen.

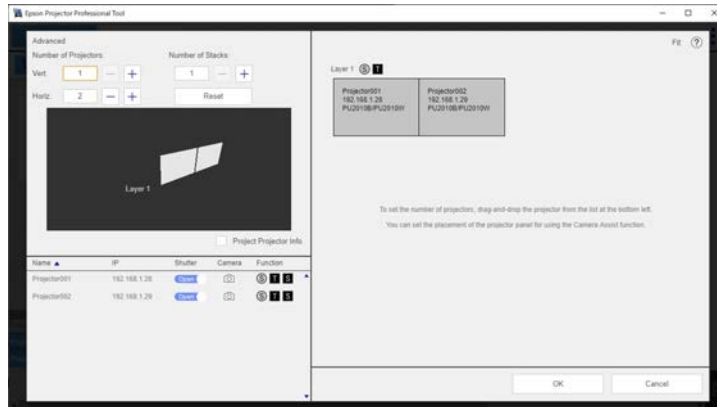
1 Create a group of projectors that support Tiling.



2 Select the **Tiling and Stacking Settings** in the **Edit Group** screen.



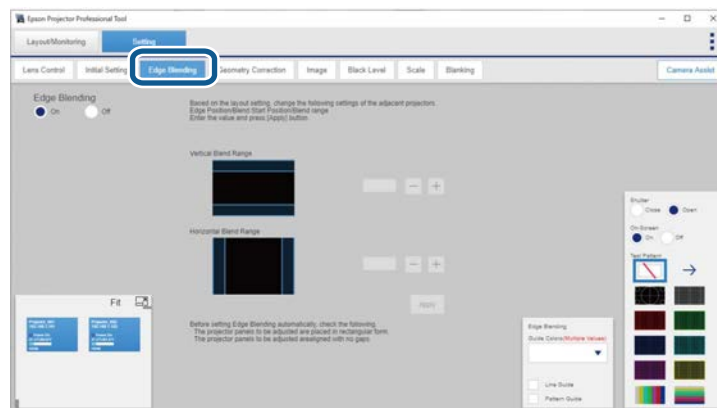
3 Specify the projectors' positions in the **Tiling and Stacking Settings**.



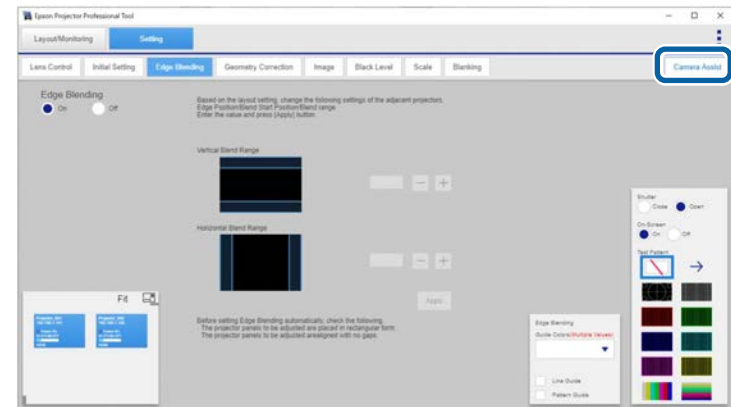
When you are done, click OK.

4 Click the **Setting** tab.

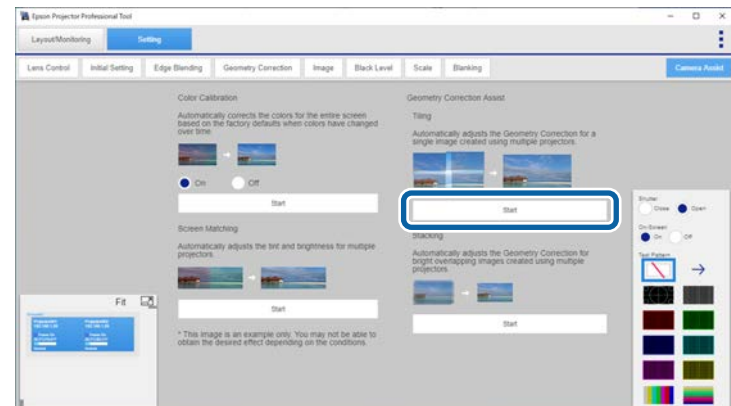
5 Adjust the Edge Blending values on the **Edge Blending** tab.



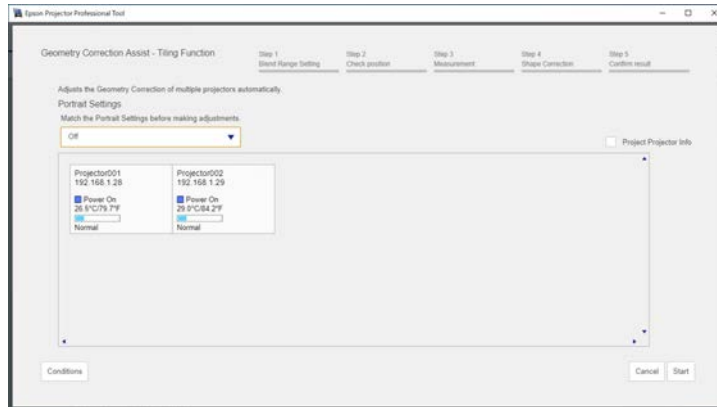
6 Click the **Camera Assist** tab.



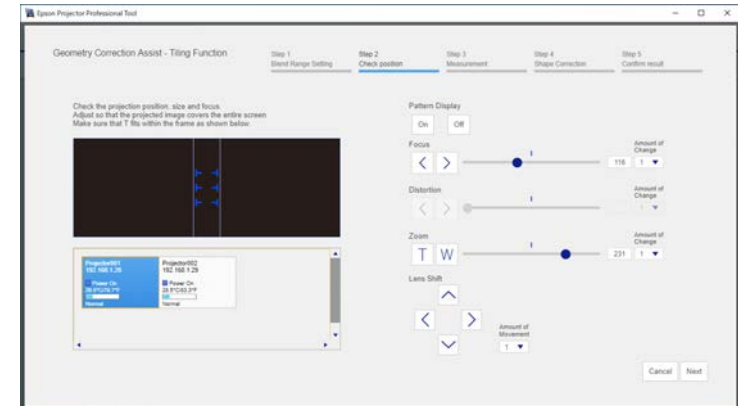
7 Click the **Start** button in the **Geometry Correction Assist > Tiling** area.



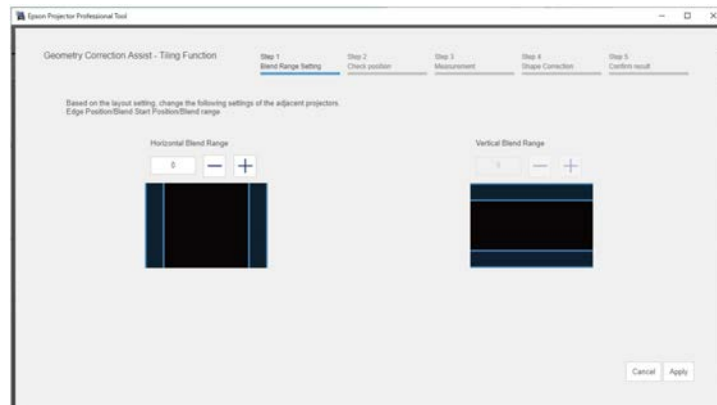
The **Geometry Correction Assist - Tiling Function** wizard starts.



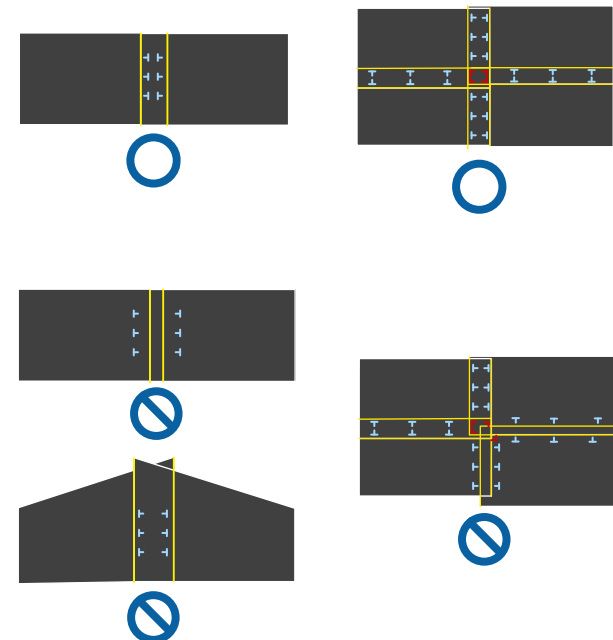
9 While checking the displayed pattern, adjust the focus, size, and position of your projected image so the image covers the entire screen.



8 If a specified Edge Blending value is incorrect, the **Blend Range Setting** screen appears. Adjust the Edge Blending values as necessary.

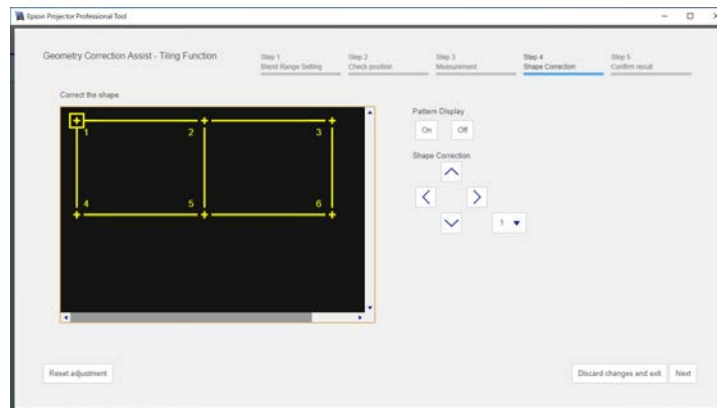


Examples:



10 Click **Next**.
Calibration starts.

11 Adjust the shape of the projected image. If necessary, adjust the **Linearity** setting.



You can also make adjustments by dragging the [+] symbols on your computer screen (supported models only), or by using keyboard shortcuts.

12 Check the result of the **Geometry Correction Assist - Tiling Function** adjustments.

13 If necessary, select **To Screen Matching** to start Screen Matching.

If there are any gaps in the positions of the projected images as a result of the Tiling adjustments, adjust the **Point Correction** setting manually.



- After using the **Geometry Correction Assist - Tiling Function** wizard, the following settings change automatically.
- The **Correction Type** setting on the **Geometry Correction** tab is set to **Point Correction** and the value of the **Point Correction** setting is set to 17×17.
- The **Area Correction** setting on the **Black Level** tab is set automatically.
- The **Color Adjustment** setting on the **Black Level** tab is set automatically.

If you want to change the **Color Adjustment** setting, perform Screen Matching.

- After calibration, the initial value of the outline position is set 5% from the inside corners of the panel.

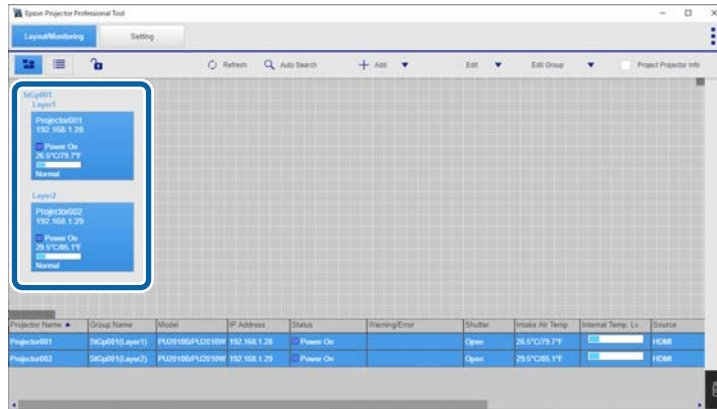
► Related Links

- "Tiling and Stacking Group Settings" [p.13](#)
- "Keyboard Shortcuts for the Geometry Correction Assist" [p.34](#)

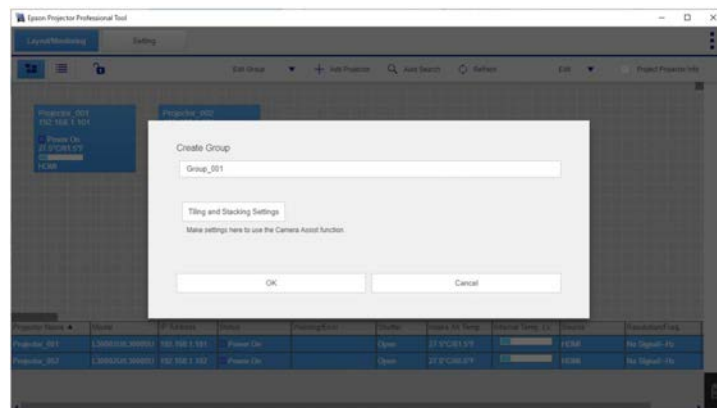
Adjusting the Screen with the Geometry Correction Assist - Stacking Function

You can use the **Geometry Correction Assist - Stacking Function** wizard to easily and quickly create bright projected image by overlapping the images of multiple projectors.

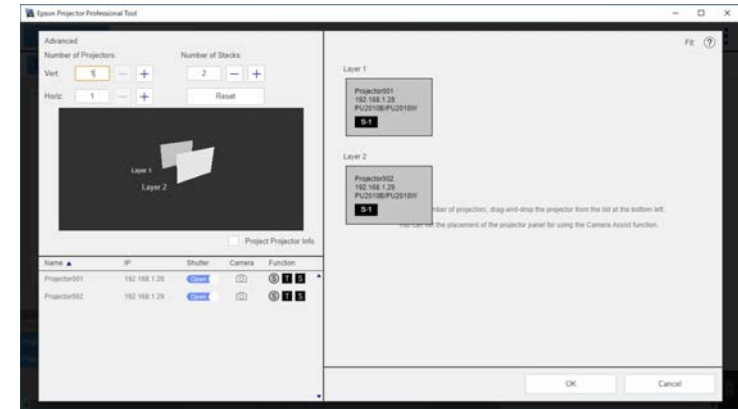
1 Create a group of projectors that support Stacking.



2 Select the **Tiling and Stacking Settings** in the **Edit Group** screen.



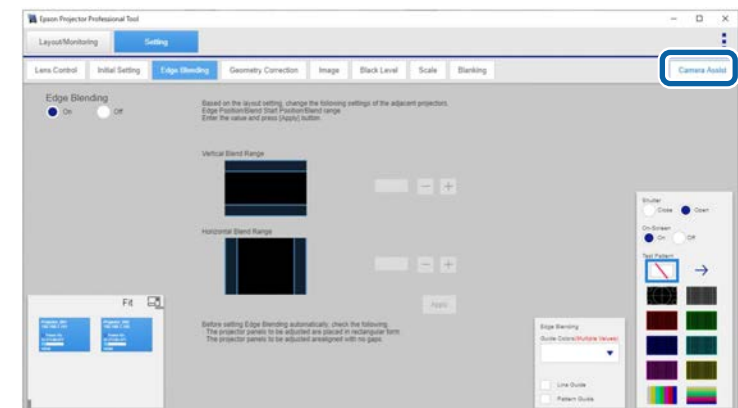
3 Specify the projectors' positions in the **Tiling and Stacking Settings**.



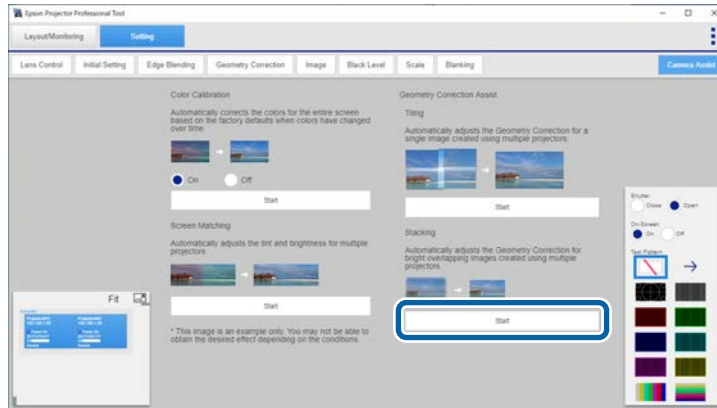
When you are done, click OK.

4 Click the **Setting** tab.

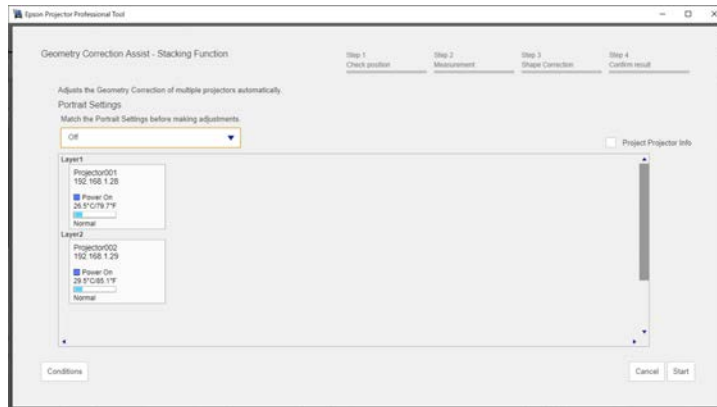
5 Click the **Camera Assist** tab.



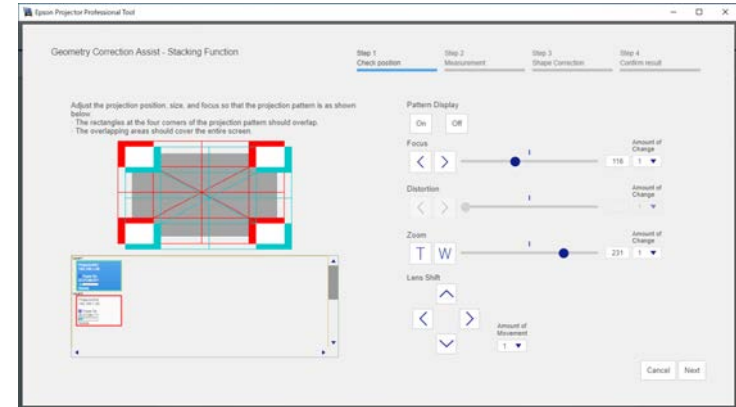
- Click the **Start** button in the **Geometry Correction Assist > Stacking** area.



The **Geometry Correction Assist - Stacking Function** wizard starts.

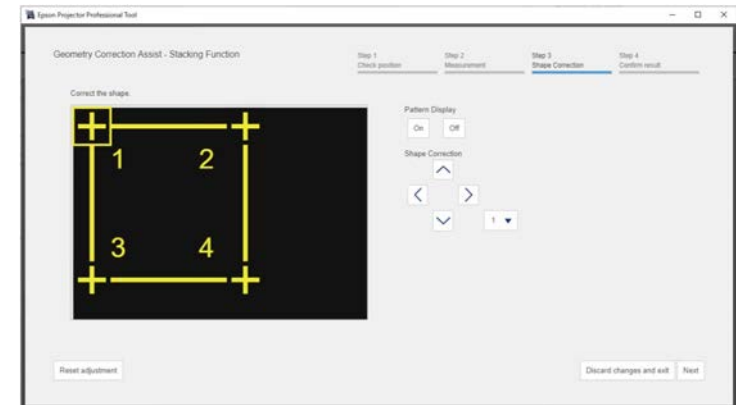


- Follow the on-screen instructions to adjust the image positions using the **Lens Control** options, so that projected images from multiple projectors roughly overlaps.



- Click **Next**.
Calibration starts.

- Adjust the shape of the projected image.





You can also make adjustments by dragging the [+] symbols on your computer screen (supported models only), or by using keyboard shortcuts.

10 Check the result of the **Geometry Correction Assist - Stacking Function** adjustments.

If there are any gaps in the positions of the projected images as a result of the **Geometry Correction Assist - Stacking Function** adjustments, adjust the **Point Correction** setting manually.



- After using the **Geometry Correction Assist - Stacking Function** wizard, the following settings change automatically.
- The **Correction Type** setting on the **Geometry Correction** tab is set to **Point Correction** and the value of the **Point Correction** setting is set to 17×17.
- The **Area Correction** setting on the **Black Level** tab is set automatically.
- The **Color Adjustment** setting on the **Black Level** tab is set automatically.
- After calibration, the initial value of the outline position is set 5% from the inside corners of the panel.

» Related Links

- "Tiling and Stacking Group Settings" [p.13](#)
- "Keyboard Shortcuts for the Geometry Correction Assist" [p.34](#)

Keyboard Shortcuts for the Geometry Correction Assist

In the **Geometry Correction Assist - Tiling Function** or **Geometry Correction Assist - Stacking Function** wizard, you can use the following keyboard commands to adjust the shape of the projected image.

Keyboard command	Function
↑ / ↓ / ← / →	Moves the cursor on the point of the image up, down, left, or right.
1 - 8 (Num)	Selects the amount by which you want each adjustment step to increment the changes. <ul style="list-style-type: none"> • 1 = [1] • 2 = [2] • 3 = [3] • 4 = [5] • 5 = [10] • 6 = [15] • 7 = [20] • 8 = [30]
Ctrl (command) + [↑ / ↓ / ← / →]	Adjusts the point using the increment you selected using the 1 to 8 number keys. (Press and hold the buttons to adjust more quickly.)
Ctrl (command) + Shift + [↑ / ↓ / ← / →]	Adjusts the point by one step. (Press and hold the buttons to adjust more quickly.)
Alt + [↑ / ↓ / ← / →]	Adjusts the point by 10 steps. (Press and hold the buttons to adjust more quickly.)

Operating Conditions for the Geometry Correction Assist

You can use the **Geometry Correction Assist - Tiling Function** or **Geometry Correction Assist - Stacking Function** wizard in the following situations:

- The image is projected in front of the screen.
- You are adjusting the following number of projectors:
 - Tiling: up to 15
 - Stacking: up to 6
- You have grouped the projectors you want to adjust.

- All projector panels in a group are positioned with no gaps and formed in a rectangular shape.
- The screen surface is flat and not skewed or warped.
- All of the projectors are connected to the same network and projecting using the same resolution.
- The width of the overlapping area is adjusted as follows:
 - Tiling: 15 to 43%
 - Stacking: over 70%
- All the projectors are installed parallel to the projected image.
- A matte white diffusion screen is used.
- The illuminance ratio of the screen when projecting an all-white screen and when projecting an all-black screen is 8:1 or more.
- The screen gain is 0.9 to 1.1. (Stacking)
- The **Projection** setting is set to **Front** or **Front/Ceiling** for all projectors.
- You are not using **Geometry Correction Assist - Tiling Function** and **Geometry Correction Assist - Stacking Function** at the same time.
- The projector has the built-in camera or optional external camera installed.

- The projected image is from 80 to 200 inches in size.
- After you perform Tiling, the projected image is formed in a rectangular shape.
- All projected images are lined up with no gaps. (Adjust the width of the overlapping area to 15 to 45%.)
- The projector is installed parallel to the projected image.



- Automatic correction may not be available depending on the projector lens. See your projector *User's Guide* for details.
- After you perform automatic correction, the adjustment range of the lens shift may be reduced, depending on the projector lens.
- We recommend performing automatic correction after turning on the projector or canceling Shutter for 20 minutes or more.
- When you make adjustments, we recommend darkening the room for the most accurate corrections.
- When you perform automatic correction using the projector's built-in camera or the optional external camera, do not block the camera or the projected images.



The supported projected image size varies depending on the projector model. See the projector's *User's Guide* for details.

Operating Conditions for Screen Matching/Color Calibration

You can perform **Screen Matching** and **Color Calibration** in the following situations:

- The automatic correction is available in all projectors in a group.
- All projector panels in a group are positioned with no gaps and formed in a rectangular shape.
- The screen surface is flat and not skewed or warped.
- A matte white diffusion screen is used.

Solving Camera Assist Problems

Try these solutions if you experience problems while using Tiling or Stacking features.

- If the "The adjustment limit of geometric correction has been exceeded." message appears, increase the amount of the physical overlapping of the images.
- If the wizard stops while adjusting the shape of the projected image, the adjustment limit of geometric correction has been reached. Try adjusting the shape again and be careful to stay within the allowed range.
- If an error occurs and the wizard stops when starting calibration, make sure that the cover is removed from the built-in camera.
- If an error occurs during calibration, try the following solutions:
 - Make sure that no objects are in front of the built-in camera.

- Make sure that at least one third of the center of the each projector's projection range fits into the projection surface.
- Make sure that any bright objects, such as bright lighting, are not placed near the projection surface.
- If an error occurs and the wizard stops after finishing calibration, make sure that you are using camera assist features under the correct operating conditions.

» **Related Links**

- "Operating Conditions for the Geometry Correction Assist" [p.34](#)

Monitoring Projectors

Follow these instructions to monitor the registered projectors.

► **Related Links**

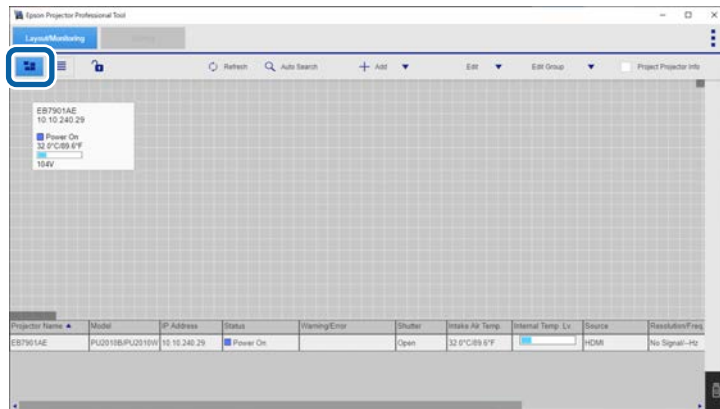
- "Projector Monitoring Views" [p.38](#)

To monitor projectors, select the **Layout/Monitoring** tab.

You can select the type of monitoring window you want to view from the following windows on the **Layout/Monitoring** tab.

- 
Layout view

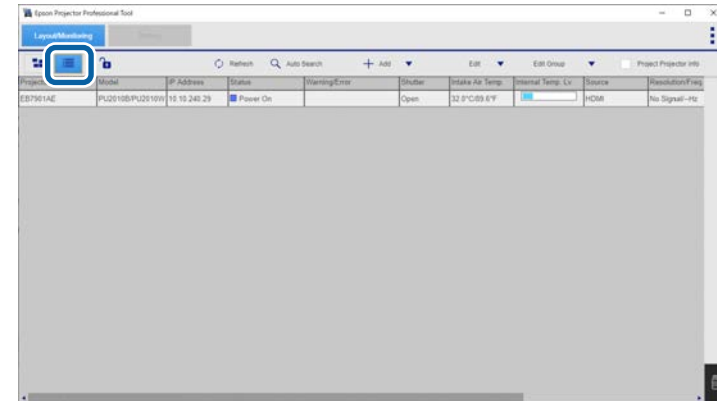
You can check projector statuses in individual panels and in the list at the bottom of the window. The status of up to four projectors are displayed in the list.



You can select the information that is displayed in the projector panels by selecting **Set Panel Items** from the **Edit** menu.

- 
List view

You can check projector statuses as a list.



The **Internal Temp Lv.** indicator shows the following conditions:

	The projector is too hot.
	The projector is overheated.
	The projector's temperature level is normal.



Depending on a projector's firmware version, its status may not be displayed correctly.

» Related Links

- "Adding a Projector to a Project" [p.12](#)

Appendix

See these sections to learn more about the Epson Projector Professional Tool software.

► **Related Links**

- ["Updating and Uninstalling the Software" p.40](#)
- ["Notices" p.41](#)

Follow these instructions to update or uninstall the Epson Projector Professional Tool software.

► Related Links

- "Getting the Latest Version of the Software" [p.40](#)
- "Uninstalling the Epson Projector Professional Tool Software (Windows 8.1/Windows 10)" [p.40](#)
- "Uninstalling the Epson Projector Professional Tool Software (Mac)" [p.40](#)

Getting the Latest Version of the Software

Updates to this software and its guide may be available on the Epson Web site.


Visit epson.sn.

Uninstalling the Epson Projector Professional Tool Software (Windows 8.1/Windows 10)

Follow the instructions below to uninstall the Epson Projector Professional Tool software.



You need administrator authority to uninstall the software.

- 1** Turn on your computer.
- 2** Make sure all running applications are closed.
- 3** Press the  key on the keyboard to display all apps.
- 4** Right-click (press and hold) **Epson Projector Professional Tool Ver.X.XX**, and then select **Uninstall**.

- 5** Follow the on-screen instructions.

Uninstalling the Epson Projector Professional Tool Software (Mac)

For Mac, follow the instructions below to uninstall the Epson Projector Professional Tool software.

- 1** Turn on your computer.
- 2** Make sure all running applications are closed.
- 3** Open the **Applications** folder.
- 4** Open the **Epson Projector Professional Tool - Tools** folder, and then double-click **Epson Projector Professional Tool Uninstaller**.
- 5** Follow the on-screen instructions.

Check these sections for important notices about your software.

► **Related Links**

- "Copyright Notice" [p.41](#)
- "About Notations" [p.41](#)
- "General Notice" [p.41](#)
- "Copyright Attribution" [p.41](#)

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About Notations

- Microsoft® Windows® 8.1 operating system
- Microsoft® Windows® 10 operating system

In this guide, the operating systems above are referred to as "Windows 8.1" and "Windows 10". Furthermore, the collective term "Windows" is used to refer to them all.

- macOS 10.13.x
- macOS 10.14.x
- macOS 10.15.x
- macOS 11.0.x

In this guide, the collective term "Mac" is used to refer to all of the operating systems above.

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