

EPSON

Projector Manual Update Information

Multimedia Projector

EB-PU2220B

EB-PU2216B

EB-PU2213B

EB-PU2120W

EB-PU2116W

EB-PU2113W

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Introduction to the Updated Firmware

Epson periodically provides firmware updates to enhance your projector features and to address issues of performance. Refer to these sections to learn more about the updated features within each firmware version.

▶ Related Links

- "Features of Firmware Version 1.04" [p.4](#)
- "Features of Firmware Version 1.05" [p.5](#)
- "Features of Firmware Version 2.00" [p.6](#)
- "Features of Firmware Version 2.50" [p.7](#)
- "Features of Firmware Version 2.60" [p.8](#)

Refer to the section for a summary of the updated features of projector firmware version 1.04.

▶▶ Related Links

- "Updates to Supported Optional Accessories (Version 1.04)" [p.4](#)

Updates to Supported Optional Accessories (Version 1.04)

Version 1.04 firmware supports the following optional accessories in addition to the existing optional accessories.

- Lens unit ELPLU03, ELPLW05, ELPLM08 and ELPLM09 are available with your projector.

Refer to the section for a summary of the updated features of projector firmware version 1.05.

▶ Related Links

- "Updates to Projector Menus (Version 1.05)" [p.5](#)

Updates to Projector Menus (Version 1.05)

The following projector menus change in firmware version 1.05.

- **21:9** has been added to the **Screen Type** menu from **Extended > Display > Screen**.
- **3440×1440** and **2560×1080** have been added to the **EDID** menu from **Signal > Advanced**.

Refer to the section for a summary of the updated features of projector firmware version 2.00.

▶ Related Links

- "Updates to Supported Software (Version 2.00)" [p.6](#)
- "Updates to Projector Menus (Version 2.00)" [p.6](#)
- "Updates to User Operations (Version 2.00)" [p.6](#)

- When compositing projected images using the camera assist feature in the Epson Projector Professional Tool software, curved surfaces are now supported in addition to flat surfaces.
- You can create a horizontally wide screen image projected from two projectors using the optional external camera.

Updates to Supported Software (Version 2.00)

Version 2.00 firmware supports the following software in addition to the existing optional software available for your projector.

- Epson Projector Professional Tool Version 1.5

See *Epson Professional Projector Tool Operation Guide* for more details.

Updates to Projector Menus (Version 2.00)

The following projector menus change in firmware version 2.00.

- The **Group Tiling** menu has been added to the **Extended > Multi-Projection** menu, and the menu hierarchy for **Projector Grouping**, **Tiling**, and **Scale** has been changed.
- The **Simple Blending** setting has been added to **Extended > Multi-Projection**.

Updates to User Operations (Version 2.00)

The following projector operations change in firmware version 2.00.

- Stacking & Blending has been added to the projected image composition method using the Epson Projector Professional Tool software.

Refer to the section for a summary of the updated features of projector firmware version 2.50.

▶ Related Links

- "Updates to Supported Software (Version 2.50)" [p.7](#)
- "Updates to User Operations (Version 2.50)" [p.7](#)

Updates to Supported Software (Version 2.50)

Version 2.50 firmware supports the following software in addition to the existing optional software available for your projector.

- Epson Projector Professional Tool Ver. 1.52

See *Epson Professional Projector Tool Operation Guide* for more details.

Updates to User Operations (Version 2.50)

This version supports Camera Assist V150.

See the following for details.

https://download2.ebz.epson.net/sec_pubs_visual/camera_assist/EN

Refer to the section for a summary of the updated features of projector firmware version 2.60.

▶▶ Related Links

- "Updates to Supported Software (Version 2.60)" [p.8](#)
- "Updates to Projector Menus (Version 2.60)" [p.8](#)

- "Crestron XiO Cloud" [p.20](#)

Updates to Supported Software (Version 2.60)

Epson Projector Management

Explanations in the User's Guide have been updated.

▶▶ Related Links

- "Epson Projector Management" [p.18](#)

Updates to Projector Menus (Version 2.60)

The following projector menus have changed in firmware version 2.60:

- The **EPMC Monitoring Control** menu has been added to the **Network** menu.
- The **Monitor Password** setting has been added to the **Network > Network Configuration > Basic** menu.
- The explanation in the User's Guide regarding the **Network > Network Configuration > Others > Command Communication** setting has been updated.
- The **Crestron XiO Cloud** setting has been added to the **Network > Network Configuration > Others** menu.

▶▶ Related Links

- "EPMC Monitoring Control" [p.19](#)
- "Monitor Password" [p.19](#)
- "Command Communication" [p.19](#)

Details of Updated Firmware

Check these sections for the updated details of firmware.

▶ Related Links

- "Details of Updated Optional Accessories (Version 1.04)" [p.10](#)
- "Details of Updated Projector Menus (Version 1.05)" [p.12](#)
- "Details of Updated Projector Menus (Version 2.00)" [p.13](#)
- "Details of User Operation Change (Version 2.00)" [p.14](#)
- "Details of User Operation Change (Version 2.50)" [p.17](#)
- "Details of Supported Software Update (Version 2.60)" [p.18](#)
- "Details of Updated Projector Menus (Version 2.60)" [p.19](#)

Refer to these sections for more details about newly supported optional accessories.

▶ **Related Links**

- "ELPLU03, ELPLW05, ELPLM08 and ELPLM09 Support" [p.10](#)

ELPLU03, ELPLW05, ELPLM08 and ELPLM09 Support

You can use lens unit ELPLU03, ELPLW05, ELPLM08 and ELPLM09 with your projector when you update the firmware to version 1.04. Refer to *Specifications* for the technical details of lens unit ELPLU03, ELPLW05, ELPLM08 and ELPLM09.

▶ **Related Links**

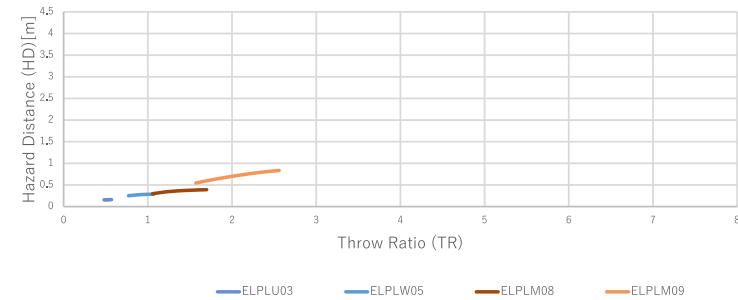
- "Hazard Distance according to IEC62471-5" [p.10](#)

Hazard Distance according to IEC62471-5

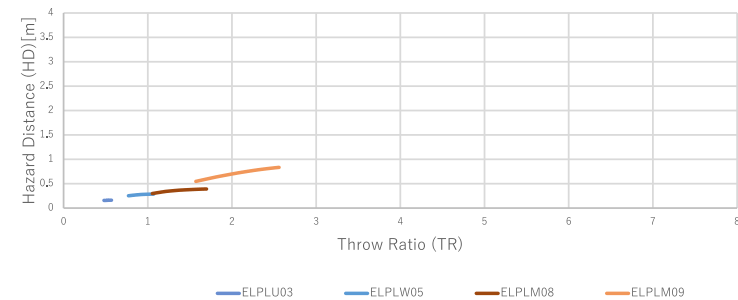
When using projectors and interchangeable lenses that change to Risk Group 3, no direct exposure to the beam is permitted. Operators must control access to the beam within the hazard distance or install the product at a height that will prevent eye exposure within the hazard distance.

Looking into the lens at distances closer than those indicated here can cause damage to eyesight.

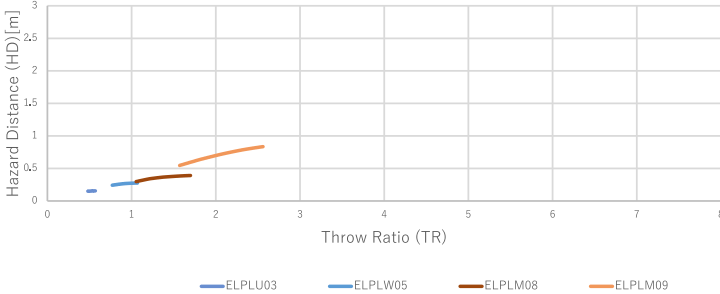
EB-PU2220B/EB-PU2120W:



EB-PU2216B/EB-PU2116W:



EB-PU2213B/EB-PU2113W:



Refer to these sections for details about projector menu changes.

▶▶ **Related Links**

- "21:9 Support for Screen Type and EDID" [p.12](#)

21:9 Support for Screen Type and EDID

21:9 has been added to the **Extended > Display > Screen > Screen Type** setting and **EDID** for this screen type has been added to the **Signal > Advanced > EDID** setting.

This is useful for video meetings using Microsoft Teams Rooms with Front Row layout.

Previous Settings Menu (Version 1.04)

Menu	Setting values
Screen Type	4:3, 16:9, 16:10
EDID > Resolution	Various EDID

New Settings Menu (Version 1.05)

Menu	Setting values
Screen Type	4:3, 16:9, 16:10, 21:9
EDID > Resolution	Existing EDID, 3440×1440, 2560×1080



3440×1440 and **2560×1080** are only available when the **EDID Preset** is set to **3480×2160/30Hz**.

When you select **21:9** as the Screen Type, **2560×1080/60Hz** is automatically selected as the **EDID** setting.

Refer to these sections for details about projector menu changes.

▶ Related Links

- "Group Tiling" [p.13](#)
- "Simple Blending" [p.13](#)

Group Tiling

The **Group Tiling** menu has been added to the **Extended > Multi-Projection** menu, and the menu hierarchy for **Projector Grouping, Tiling, and Scale** has been changed.

Previous Multi-Projection Menu (Version 1.05)

- **Extended > Multi-Projection > Projector Grouping**
- **Extended > Multi-Projection > Tiling**
- **Extended > Multi-Projection > Scale**

New Multi-Projection Menu (Version 2.00)

- **Extended > Multi-Projection > Group Tiling > Projector Grouping**
- **Extended > Multi-Projection > Group Tiling > Tiling**
- **Extended > Multi-Projection > Group Tiling > Scale**

Simple Blending

The **Simple Blending** setting has been added to **Extended > Multi-Projection**.

Location Setup

Sets the position of the primary projector.

Whole Screen Aspect

Sets the screen aspect ratio after combining.

Start Auto Adjustment

Automatically adjusts the projected image using the external camera.

Screen Matching

Corrects the tint and brightness of each projected image.

Refer to these sections for details on changes to user operations.

▶ Related Links

- "Stacking & Blending Using the Epson Projector Professional Tool Software" [p.14](#)
- "Curved Surface Correction Using the Epson Projector Professional Tool Software" [p.14](#)
- "Simple Blending Using the Projector's Menu and the Optional External Camera" [p.15](#)

Stacking & Blending Using the Epson Projector Professional Tool Software

Stacking & Blending has been added to the projected image composition method using the Epson Projector Professional Tool software. You can use the **Geometry Assist - Stacking & Blending Function** wizard to easily and quickly create a single large, bright, projected image by joining and overlapping the images of multiple projectors.

See *Epson Professional Projector Tool Operation Guide* for more details.

- 1** Start the Epson Projector Professional Tool software.
- 2** Create a group of projectors that support Stacking & Blending on the **Layout/Monitoring** tab.
- 3** Select **Blending and Stacking Settings** on the **Create Group** screen.
- 4** Specify the projectors' positions in the **Blending and Stacking Settings**.
- 5** Start the **Geometry Assist - Stacking & Blending Function** wizard. When the wizard has finished, perform the following operations as necessary:

- **Screen Matching** to correct the tint and brightness of each projected image.
- **Point Correction** to adjust the gaps in the positions of the projected image.

Curved Surface Correction Using the Epson Projector Professional Tool Software

When compositing projected images using the camera assist feature in the Epson Projector Professional Tool software, curved surfaces are now supported in addition to flat surfaces.

Previous Image Composition (Version 1.05)

When compositing projected images using the camera assist feature in the Epson Projector Professional Tool software, only flat surfaces are supported.

New Image Composition (Version 2.00)

When compositing projected images using the camera assist feature in the Epson Projector Professional Tool software, the following functions now support curved surfaces.

- Screen Matching (convex surfaces are not supported)
- Color Calibration
- Blending
- Stacking
- Stacking & Blending

See *Epson Professional Projector Tool Operation Guide* for more details.



Check the following points when using the camera assist feature to correct images projected onto a curved surface.

- All projectors in the group must support the Curved Surface Correction feature.
- Before using this software to automatically adjust the projected image, determine the position of linearity for the entire screen, and attach stickers or other markers to the screen to mark the linearity adjustment.
- Attach the stickers for linearity adjustment at equally spaced gaps on the projection surface.
- When correcting the shape using the **Geometry Assist** wizard, align the number and position of the correction points with the stickers for linearity adjustment.

Simple Blending Using the Projector's Menu and the Optional External Camera

You can create a horizontally wide screen image projected from two projectors using the optional external camera.

This function is only available when the optional external camera is installed.



You can use the simple blending feature under the following conditions:

- An optional external camera is installed on each projector.
- Wait for 2 minutes after turning on two projectors before starting the simple blending process.
- You are projecting on a matte white diffusion screen that is flat and even.
- The projector is placed so it squarely faces the screen, not at an angle.
- Nothing is blocking the optional external camera and the projected image.
- The illuminance ratio on the screen surface when projecting an all-white screen and when projecting an all-black screen is 8:1 or more. (When the screen illuminance is 40 lux or less, we recommend using projection sizes within the following ranges for each projector.)
 - Up to 9.9 Klm: 50 to 200 inches
 - 10 Klm to 14.9 Klm: 60 to 300 inches
 - 15 Klm to 19.9 Klm: 70 to 350 inches
 - 20 Klm to 24.9 Klm: 80 to 400 inches
 - 25 Klm to 29.9 Klm: 90 to 450 inches
 - 30 Klm: 100 to 500 inches
- The original resolution of all the projector is same. (except for screen matching)
- **Projection** in the projector's **Extended** menu is set to **Front** or **Front/Ceiling** for all projectors.

1 Connect two projectors using a LAN cable.

2 Make sure the DHCP setting is turned on in the projector's Network menu for two projectors.



Wait for 1 minute after assigning an IP address automatically.

- 3** Select **Extended > Multi-Projection > Simple Blending**, and press [Enter]. Then press [Enter] again if necessary.
- 4** Select the **Location Setup** setting and specify the position of the primary projector from **A1** or **B1**.
- 5** Select the image aspect in the **Whole Screen Aspect** setting for the merged wide image.



You can set the following aspects using the **Whole Screen Aspect** menu.

- 21:9(EDID 3440x1440)
- 21:9(EDID 2560x1080)
- 16:6(EDID 2880x1080)
- 16:6(EDID 1920x720)
- 3:1(EDID 3240x1080)
- 32:10(EDID 3456x1080)
- 32:9(EDID 3200x900)



If you have problems with simple blending not being applied correctly, try the following solutions:

- Make sure the projectors are placed correctly and connected using a LAN cable.
 - Make sure the optional external camera is installed correctly and the cable is securely connected to the projector.
 - The optional external camera may be defective. Contact Epson for help.
 - Make sure that a powerful spotlight or source of strong natural light is not shining into the projection environment and interfering with simple blending.
 - Resize the projection size.
 - If you see an error message during the simple blending process, check the error codes in the message.
 - 0402: Measurement failure
 - 0406: Geometry correction error
 - 0407/0408: The external camera may be defective, or a communication error has occurred.
- Contact Epson for support for details.

- 6** Perform **Start Auto Adjustment**.
Follow the on-screen instructions to adjust the projection position. If the projection position cannot be adjusted fully using the [Lens Shift] button on the remote control or the [Lens] button on the control panel, move the projectors so that the green pattern and the magenta pattern overlap and turn white.
- 7** After auto adjustment is complete, perform **Correct Shape** following the instructions on the screen.
- 8** Perform **Screen Matching** to adjust the brightness and tint of the images.

Refer to these sections for details on changes to user operations.

▶ Related Links

- "Selecting the Image Aspect (Camera Assist V150)" [p.17](#)
- "Overshoot Light (Camera Assist V150)" [p.17](#)

Selecting the Image Aspect (Camera Assist V150)

Geometry Assist wizard for the Epson Projector Professional Tool is now available even when the input video aspect ratio is 16:9.

Previous version (Version 2.00)

Geometry Assist wizard for the Epson Projector Professional Tool only supported 16:10.

New version (Version 2.50)

The following function of **Geometry Assist** supports 16:9 video aspect in addition to 16:10.

- Stacking
- Blending (horizontal direction only)
- Stacking & blending (horizontal direction only)

Overshoot Light (Camera Assist V150)

Epson Projector Professional Tool's **Geometry Assist** wizard now supports overshoot light.

The projected images can be automatically adjusted even when the projected image extends onto the wall adjacent to the wall of the target projection area.

Refer to these sections for details about the supported software update.

▶▶ Related Links

- "Epson Projector Management" [p.18](#)

Epson Projector Management

The explanation in the User's Guide regarding the authentication method when registering projectors has been updated.

Previous Version (Version 2.50)

Epson Projector Management

Epson Projector Management software (Windows only) lets you monitor and control your projector through the network. See the *Epson Projector Management Operation Guide* for instructions.

You can download Epson Projector Management from the following Web site.

epson.sn



The authentication method when registering projectors varies depending on the version of the Epson Projector Management software you are using. For the best results, we recommend that you use the latest version of the Epson Projector Management software.

New Version (Version 2.60)

Epson Projector Management

Epson Projector Management software (Windows only) lets you monitor and control your projector through the network. See the *Epson Projector Management Operation Guide* for instructions.

You can download Epson Projector Management from the following Web site.

epson.sn



The authentication method when registering projectors varies depending on the version of the Epson Projector Management software you are using.

- Epson Projector Management Ver. 5.30 or earlier: **Monitor Password**
- Epson Projector Management Ver. 5.40 or later: **Web Control Password**

For the best results, we recommend that you use the latest version of the Epson Projector Management software.

▶▶ Related Links

- "Command Communication" [p.19](#)

Refer to these sections for details about projector menu changes.

▶▶ Related Links

- "EPMC Monitoring Control" [p.19](#)
- "Monitor Password" [p.19](#)
- "Command Communication" [p.19](#)
- "Crestron XiO Cloud" [p.20](#)

EPMC Monitoring Control

The **EPMC Monitoring Control** menu has been added to the **Network** menu.

Previous Network Menu (Version 2.50)

No setting is available.

New Network Menu (Version 2.60)

☛ Network > EPMC Monitoring Control

Set **EPMC Monitoring Control** to **On** and make the necessary settings to directly communicate with the Epson Projector Management Connected cloud server, not through the Epson Projector Connected Agent. See the *Epson Projector Management Connected Operation Guide* for more details.

<https://www.projection-service.epson.com/pages/epm-connected/online-manual/web-front/EN/index.html>

Monitor Password

The **Monitor Password** setting has been added to the **Network > Network Configuration > Basic** menu.

Previous Basic Menu (Version 2.50)

No setting is available.

New Basic Menu (Version 2.60)

☛ Network > Network Configuration > Basic > Monitor Password

This is useful for monitoring and controlling projectors with a switcher, a system controller, or using Epson Projector Management Ver. 5.30 or earlier. (No password is set by default.)

- This setting is available only when **Command Communication** is set to **Compatible**.

☛ Network > Network Configuration > Others > Command Communication

- Make sure that the **Monitor Password** matches the password set for the switcher or the system controller.
- Enter up to 16 alphanumeric characters (do not use spaces or any symbols other than @).

Command Communication

The explanation in the User's Guide has been updated.

Previous Version (Version 2.50)

☛ Network > Network Configuration > Others > Command Communication

You can select the authentication method for command communication.

Protected

Select when performing a digest authentication using **Web Control Password**. You need to install the latest version of the Epson Projector Management software.

Compatible

Select when performing plain text authentication using the **Monitor Password** (up to 16 alphanumeric characters long).



Select **Compatible** when monitoring projectors with a switcher and a system controller or using Epson Projector Management Ver. 5.30 or earlier.

New Version (Version 2.60)

☛ Network > Network Configuration > Others > Command Communication

You can select the authentication method for command communication when communicating with an external device such as a computer or a system controller through the network.

Protected

Select when performing a digest authentication using **Web Control Password**. You need to install the latest version of the Epson Projector Management software.

Compatible

Select when performing plain text authentication using the **Monitor Password** (up to 16 alphanumeric characters long).



- Select **Compatible** when monitoring projectors with a switcher and a system controller or using Epson Projector Management Ver. 5.30 or earlier.
- Make sure that the **Monitor Password** matches the password set for the switcher or the system controller.
 - ☛ Network > Network Configuration > Basic > Monitor Password

Previous Others Menu (Version 2.50)

No setting is available.

New Others Menu (Version 2.60)

☛ Network > Network Configuration > Others > Crestron Xio Cloud

Set to **On** to monitor and control your projector and other devices over the network using the Crestron XiO Cloud service. You can manage multiple devices from one location. See the following Web site for details.

<https://www.crestron.com/Products/Featured-Solutions/XiO-Cloud>

Crestron XiO Cloud

The **Crestron XiO Cloud** setting has been added to the **Network > Network Configuration > Others** menu.

Appendix

Refer to these sections for important notices.

▶ **Related Links**

- "Notices" [p.22](#)

Check these sections for important notices.

► **Related Links**

- "Copyright Notice" [p.22](#)
- "Trademarks" [p.22](#)
- "Copyright Attribution" [p.22](#)

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