



Projector Manual Update Information

Multimedia Projector

EB-L30002U

EB-L30000U

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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 4.00" [p.4](#)
- "Features of Firmware Version 4.10" [p.5](#)
- "Features of Firmware Version 5.00" [p.6](#)
- "Features of Firmware Version 5.10" [p.7](#)

Refer to these sections for a summary of the updated features of projector firmware version 4.00.

▶▶ Related Links

- "Updates to Supported Optional Accessory (Version 4.00)" [p.4](#)
- "Updates to Supported Software (Version 4.00)" [p.4](#)
- "Updates to Projector Menus (Version 4.00)" [p.4](#)

- The Simple Stacking is added to the Multi-Projection.

▶▶ Related Links

- "Simple Stacking" [p.10](#)

Updates to Supported Optional Accessory (Version 4.00)

Version 4.00 firmware supports the following optional accessory in addition to the existing optional accessories.

- External camera ELPEC01 is available with your projector.

▶▶ Related Links

- "ELPEC01 Support" [p.9](#)

Updates to Supported Software (Version 4.00)

Version 4.00 firmware supports the following software in addition to the existing optional software available for your projector.

- Epson Projector Management Version 5.4
- Epson Projector Professional Tool Version 1.4

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

Updates to Projector Menus (Version 4.00)

The following projector menu changes in firmware version 4.00.

Refer to these sections for a summary of the updated features of projector firmware version 4.10.

►► Related Links

- "Updates to Projector Menus (Version 4.10)" [p.5](#)
- "Updates to User Operations (Version 4.10)" [p.5](#)

- "Operating the Projector Using Web API" [p.14](#)
- "Remote Password Settings Change" [p.14](#)
- "Epson Web Control Operation Change" [p.14](#)
- "Epson Projector Management Operation Change" [p.15](#)

Updates to Projector Menus (Version 4.10)

The following projector menus change in firmware version 4.10.

- The settings for the **Command Communication**, **Web API Settings** and **PJLink** are added to the **Others** menu.
- The settings for the **Reset All (User Default)** and **User Default Setting** are added to the **Reset All (Factory Default)** menu.

►► Related Links

- "Command Communication, Web API Settings and PJLink" [p.12](#)
- "Reset All (User Default) and User Default Setting" [p.13](#)

Updates to User Operations (Version 4.10)

The following projector operations change in firmware version 4.10.

- You can use Web API to operate the projector.
- You can perform the point correction up to a larger number of pixels.
- You can enhance the network security with the following changes:
 - Remote Password settings
 - Epson Web Control
 - Epson Projector Management

►► Related Links

- "Maximum Point Correction Value Change" [p.14](#)

Refer to these sections for a summary of the updated features of projector firmware version 5.00.

▶▶ Related Links

- "Updates to User Operations (Version 5.00)" [p.6](#)

Updates to User Operations (Version 5.00)

The following projector operations change in firmware version 5.00

- Stacking & Blending has been added to the projected image composition method 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.

▶▶ Related Links

- "Stacking & Blending Using the Epson Projector Professional Tool Software" [p.16](#)
- "Curved Surface Correction Using the Epson Projector Professional Tool Software" [p.16](#)

Refer to the section for a summary of the updated features of projector firmware version 5.10.

► Related Links

- "Updates to User Operations (Version 5.10)" [p.7](#)
- "Updates to Projector Menus (Version 5.10)" [p.7](#)

Updates to User Operations (Version 5.10)

The following projector operations have changed in firmware (Version 5.10):

- Notes have been added in the following cases when using the Epson Projector Management software:
 - When displaying **Network error (Web Control Password authentication error)**
 - When updating the projector's firmware over the network using the Epson Projector Management software

Updates to Projector Menus (Version 5.10)

The following projector menus have changed in firmware version (Version 5.10):

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

Details of Updated Firmware

Check these sections for the updated details of firmware.

►► Related Links

- "Details of Updated Optional Accessories (Version 4.00)" [p.9](#)
- "Details of Updated Projector Menus (Version 4.00)" [p.10](#)
- "Details of Updated Projector Menus (Version 4.10)" [p.12](#)
- "Details of User Operation Change (Version 4.10) " [p.14](#)
- "Details of User Operation Change (Version 5.00) " [p.16](#)
- "Details of User Operation Change (Version 5.10)" [p.18](#)
- "Details of Updated Projector Menus (Version 5.10)" [p.19](#)

Refer to the section for more details about newly supported optional accessory.

▶▶ Related Links

- "ELPEC01 Support" [p.9](#)



You can download the Epson Projector Professional Tool software and manual from the following website.

epson.sn

ELPEC01 Support

You can use external camera ELPEC01 with your projector when you update the firmware to version 4.00.

▶▶ Related Links

- "External Camera Usage" [p.9](#)

External Camera Usage

You can use extended functions such as the Camera Assist function and Remote Camera Access with the optional external camera.

The extended functions reduce the time and effort needed to adjust the image.

When using the optional external camera, the following operations that are normally required for general camera solutions become unnecessary:

- Preparation such as securing installation location and adjusting the angle of view.

As the optional external camera is installed on the projector or the lens, a tripod and installation space is unnecessary. There is also no need to adjust the focus, angle, and exposure.

- Activation

Epson Projector Professional Tool software and Epson Web Control allow you to use the extended functions.

Refer to these sections for details about projector menu changes.

► Related Links

- "Simple Stacking" [p.10](#)

Simple Stacking

The **Simple Stacking** setting is added to the **Extended** menu > **Multi-Projection**.

Previous Extended Menu (Version 3.00)

Top menu	Sub menu	Items or setting values
Extended	Multi-Projection	Projector ID
		Projector Grouping
		Tiling
		Geometry Correction
		Edge Blending
		Black Level
		Scale
		Reset
		Screen Matching

New Extended Menu (Version 4.00)

Top menu	Sub menu	Items or setting values
Extended	Multi-Projection	Projector ID
		Projector Grouping
		Tiling
		Geometry Correction

Top menu	Sub menu	Items or setting values
		Edge Blending
		Black Level
		Scale
		Reset
		Screen Matching
		Simple Stacking

You can easily and quickly create a bright projected image by overlapping the images of multiple projectors using **Simple Stacking**.

- **Point Correction:** Divides the projected image into a grid and corrects the distortion in 0.5 pixel increments by moving the selected point of intersection in any direction.
- **Start Auto Adjustment:** You can automatically adjust the projected image using the camera assist functions. The projector for which you perform this feature becomes a master projector, and the adjustment is performed based on the projector's image position and shape.



- Connect two projectors using a LAN cable.
- Make sure you do the following before adjusting:
 - Set the **DHCP** setting to **On** in the projector's **Network** menu for two projectors.
 - Adjust the image position, shape, and focus on the master projector. If you adjust the image shape of the master projector, select **Point Correction** and select **Quick Corner** to correct the shape.
 - The required time for simple stacking varies depending on the projector layout. It takes up to approximately 4 minutes.

► Related Links

- "Conditions for Simple Stacking" [p.11](#)

Conditions for Simple Stacking

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

- An optional external camera or a built-in camera is installed on each projector.
- Wait for 2 minutes after turning on two projectors before starting the simple stacking 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.
- **Projection** in the projector's **Extended** menu is set to **Front** or **Front/Ceiling** for all projectors.

Refer to these sections for details about projector menu changes.

► Related Links

- "Command Communication, Web API Settings and PJLink" [p.12](#)
- "Reset All (User Default) and User Default Setting" [p.13](#)

Command Communication, Web API Settings and PJLink

The settings for the Command Communication, Web API Settings and PJLink are added to the Network menu > Others.

Previous Network Menu (Version 4.00)

Top menu	Sub menu	Items or setting values
Network	Others	Secure HTTP
		Web Server Cert.
		Priority Gateway
		AMX Device Discovery
		Crestron RoomView
		Control4 SDDP
		Art-Net
		Message Broadcasting

New Network Menu (Version 4.10)

Top menu	Sub menu	Items or setting values
Network	Others	Command Communication
		Secure HTTP

Top menu	Sub menu	Items or setting values
		Web Server Cert.
		Web API Settings
		Priority Gateway
		PJLink
		AMX Device Discovery
		Crestron RoomView
		Control4 SDDP
		Art-Net
		Message Broadcasting

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.

Web API Settings

You can select the Web API settings when using Web API communications.

Web API

Set to **On** to enable to the Web API function.

Authentication

You can set the security for your projector to use during Web API communications.

- **Open**
Security is not set.
- **Digest**
Communication is performed using API authentication (Digest authentication).



See the *Web API Specifications for Projectors* for details.

PJLink

Set to **On** to monitor the projector using PJLink.

Reset All (User Default) and User Default Setting

The **Reset All (User Default)** setting and the setting for the **User Default Setting** are added to the **Reset** menu > **Reset All (Factory Default)**.

Previous Reset Menu (Version 4.00)

Top menu	Sub menu	Items or setting values
Reset	Reset All (Factory Default)	Reset All (Factory Default)

New Reset Menu (Version 4.10)

Top menu	Sub menu	Items or setting values
Reset	Reset All (Factory Default)	Reset All (User Default)
		Reset All (Factory Default)

Top menu	Sub menu	Items or setting values
		User Default Setting

Reset All (User Default)

You can apply the values you set in the **User Default Setting** menu.

User Default Setting

You can define the default value used when performing the **Reset All (User Default)** functions.

You can set the values for the following settings:

- **Light Source Mode**
- **Brightness Level**
- **Constant Brightness**
- **A/V Output**
- **Standby Mode**
- **Standby Confirmation**
- **Messages**
- **Beep**
- **Sleep Mode**
- **Shutter Timer**
- **Shutter Release**
- **Color Mode**
- **Wireless Mode**
- **DHCP** (in the **Wired LAN** menu)
- **Command Communication**

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

▶ Related Links

- "Operating the Projector Using Web API" [p.14](#)
- "Maximum Point Correction Value Change" [p.14](#)
- "Remote Password Settings Change" [p.14](#)
- "Epson Web Control Operation Change" [p.14](#)
- "Epson Projector Management Operation Change" [p.15](#)

Operating the Projector Using Web API

You can use Web API to operate the projector. You can also execute some of the ESC/VP21 commands by Web API. See the *Web API Specifications for Projectors* for details.



- You can authenticate Web API communications using API authentication (Digest authentication).
- The user name for API authentication is EPSONWEB; use the password that is set for Web Control Password.

Maximum Point Correction Value Change

The maximum point correction value is increased. You can perform the point correction up to a larger number of pixel, that allows you to project the image on the different shape of screens.

Previous Point Correction Value (Version 4.00)

You can make corrections in 0.5 pixel increments in all directions within the range of vertical and horizontal up to a maximum of 32 pixels.

New Point Correction Value (Version 4.10)

You can make corrections in 0.5 pixel increments in all directions within the range of vertical and horizontal up to a maximum of 600 pixels.

Remote Password Settings Change

The Remote Password settings on the projector's **Network** menu > **Network Configuration** > **Basic** change to enhance the network security.

Previous Remote Password Settings (Version 4.00)

You can enter up to 8 single-byte alphanumeric characters.

New Remote Password Settings (Version 4.10)

You can enter up to 32 single-byte alphanumeric characters.

Epson Web Control Operation Change

Epson Web Control settings change to enhance the network security.

- You can set the **Monitor Password** only with Epson Web Control only when **Command Communication** is **Compatible**.
- If you use the default password **admin** as a Web Control Password, a screen prompting you to change the password is displayed before you can view the **Advanced** screen on Epson Web Control. Follow the on-screen instructions to change the password.

We strongly recommend changing the password regularly to prevent unauthorized access to your projector.

Epson Projector Management Operation Change

When authentication errors occur in Epson Projector Management after updating the firmware to version 4.10 or later, try one of the following:

- If you know the Web Control Password , select multiple target projectors on the main screen of the Epson Projector Management, open the Edit menu > Property and then enter the **Web Control Password**.
- If you do not know the Web Control Password, open **Network** menu > **Network Configuration** > **Basic** > **Web Control Password** in your projector's menu, change the **Web Control Password** and then enter the **Web Control Password** on the Epson Projector Management.

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

▶ Related Links

- "Stacking & Blending Using the Epson Projector Professional Tool Software" [p.16](#)
- "Curved Surface Correction Using the Epson Projector Professional Tool Software" [p.16](#)

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 4.10)

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 5.00)

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.

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

▶▶ Related Links

- "Notes for the Epson Projector Management Software" [p.18](#)

Notes for the Epson Projector Management Software

Notes have been added in the following cases when using the Epson Projector Management software:

- If the status of the projector registered in the Epson Projector Management software is **Network error (Web Control Password authentication error)**, install the latest version of the Epson Projector Management software and register the projector again.
- When updating firmware using the Epson Projector Management software, use the latest version of the Epson Projector Management software.

Refer to these sections for details about projector menu changes.

► Related Links

- "EPMC Monitoring Control" [p.19](#)

EPMC Monitoring Control

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

Previous Network Menu (Version 5.00)

No setting is available.

New Network Menu (Version 5.10)

Top menu	Sub menu	Items or setting values
Network	EPMC Monitoring Control	• EPMC Settings • Export EPMC Settings • Import EPMC Settings

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>

Appendix

Refer to these sections for important notices.

►► Related Links

- "Notices" [p.21](#)

Check these sections for important notices.

► Related Links

- "Copyright Notice" [p.21](#)
- "Trademarks" [p.21](#)
- "Copyright Attribution" [p.21](#)

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