

Pro L12000Q/L12002Q/L20000U/L20002U

Firmware Release Notes

January 7th 2021

This is to inform about release of firmware Ver.3.00. (All previous versions are included in v3.00)

Improvements

Ver.3.00 Modified contents

- 1) Added selectable items (correction point/display grid color) for point correction
current: (points) 3x3/5x5/9x9/17x17, (grid color) W/R/G/B
new: (point) 3x3/5x5/9x9/17x17/33x33, (grid color) W/R/G/B/C/M/Y
- 2) Improved point correction function so that customer can specify adjustable point numbers with each direction separately. (from 3, 5, 9, 17, 33)
- 3) Added function which can specify a range which can be set to (surrounding points will be adjusted automatically depending on user adjustment) the adjusted point by user when the point correction is done from Epson Professional Projector Tool
- 4) Improved geometric correction (Quick corner/Curved surface/Corner/Point correction) so that correction points can be set on outside of projected area
- 5) Changed specification of geometric correction so that a correction value will be held even after a grid number at correction is changed (e.g. When correction is done in order of 17x17 -> 9x9 -> 17x17, each adjusted value which were done by grid 17x17 and 9x9 will be held even after going back to 17x17 at last step.)
- 6) Added interpolation type "Curve" for point correction so that customer can select appropriate interpolation method depending on usage
- 7) Improved specification so that projector can display patterns/frame on projected image at geometric correction from Epson Professional Projector Tool (Quick Corner/Curved Surface/Corner Wall newly support this function)"
- 8) Added "Flexible adjustment" which 21x11 points will be used for uniformity adjustment at each adjustment level (1~8) via Epson Professional Projector Tool. This function is available from Epson Professional Projector Tool only.
- 9) Adjustment pattern which is used for uniformity adjustment is changed to raster image by removing the black frame for improving visibility
- 10) Changed specification of following functions.
 - (1) Uniformity
Changed adjustment range and adjustment value
Range: (current) -20~2, (new) -50~50
Value: (current) brightness 2.5%/1step , (new) 1%/1step

(2) Color matching

- Uniformed the specification of correction range between "Color matching" and "Uniformity"

- Added the Adjustment Level "All" which can adjust each color component value and Brightness for all level at once"

11) Changed adjustable range of G-M correction menu

current: 11 steps (0~10)

new: 21 steps (-5~15)"

12) Uniformed a gradation expression of gray scale pattern (Horizontal, Vertical) for test pattern to Color Matching (22 steps)

13) Add ON / OFF menu on color calibration function to make it easier to switch between correction state and initialization state.

*Default is ON"

14) There is possibility that RO error occurs due to malfunction of main CPU (SML) at startup.

15) Improved the problem that the installation mode setting is not reflected correctly after the factory initialization is executed.

16) Supported for stacking assist with EPPT (Epson Projector Professional Tool)

*For detail of Stacking assist function, see Iceland-UG training manual on Knowledge base.

**Supported from EPPT V1.31"

17) (Status monitor) Improved contents of after service information

- Display temp error and internal error information on the status monitor"

18) Fade-in / fade-out time of AV mute setting can be set by ArtNet

- Fade-in setting range: 0.5 [s] increments between 0.0 [s] and 10.0 [s]
- Fade out setting range: Same as above"

19) Changed the process so that "Light source module warning (YE warning)" is not displayed when the setting value of brightness setting (custom mode) is less than 30%".
<Generating conditions of light source module warning

(2 conditions)>

When the color balance of the light source is imbalanced (Example: The color of the white image is extremely yellow / blue, etc.)

(2) When the brightness level of the light source is low

<Background>

Depending on the laser light source, a warning may occur when the brightness is set to less than 30%."

20) 1. The lower limit of light source brightness setting (custom mode) is changed as follows.

- Before change: 30% ~ 100%
- After change: 10% ~ 100%

2. Assign light source brightness setting function to Art-Net CH17

- Before change: No function
- After change: 0%* ~ 100%

* If set to less than 10%, AV mute will be ON**

** AV mute will be ON at 0[s] regardless of fade-in/out settings"

21) Epson Professional Tool V1.30 is supported

*For detail of Epson Professional Tool V1.30,

22) <Tiling assist function>

Changed to display the outline prediction line of the blend screen 5% inside the projection screen when tiling assist is executed.

<Background>

Before: It's difficult to understand blending image area and difficult to match the image size and screen size. Therefore, re-adjustment may be required after finishing tiling assist.

After: By displaying estimated outline of blending area, blended image size can be almost

matched to the screen."

23) Changed the message of each initialization button in Web Control as follows.

· Before change: Settings

· After change: Execute

<Background>

In the case of ""Settings"", user may misunderstand that ""adjusted settings will be reflected""."

24) Improved error message of screen matching and color calibration

<Background>

By displaying the cause and how to resolve it in the error message, allow users can handle the

error as much as possible."

25) (Multi-projection function)

Changed the color and size of the black level adjustment window when ""Color adjustment"" is

selected under the black level adjustment menu*

*Color matching and color uniformity menu window are also changed to same configuration.

<Background>

Black level adjustment window is too bright which affects the adjustment of the black level around the window.

[Before update](#)

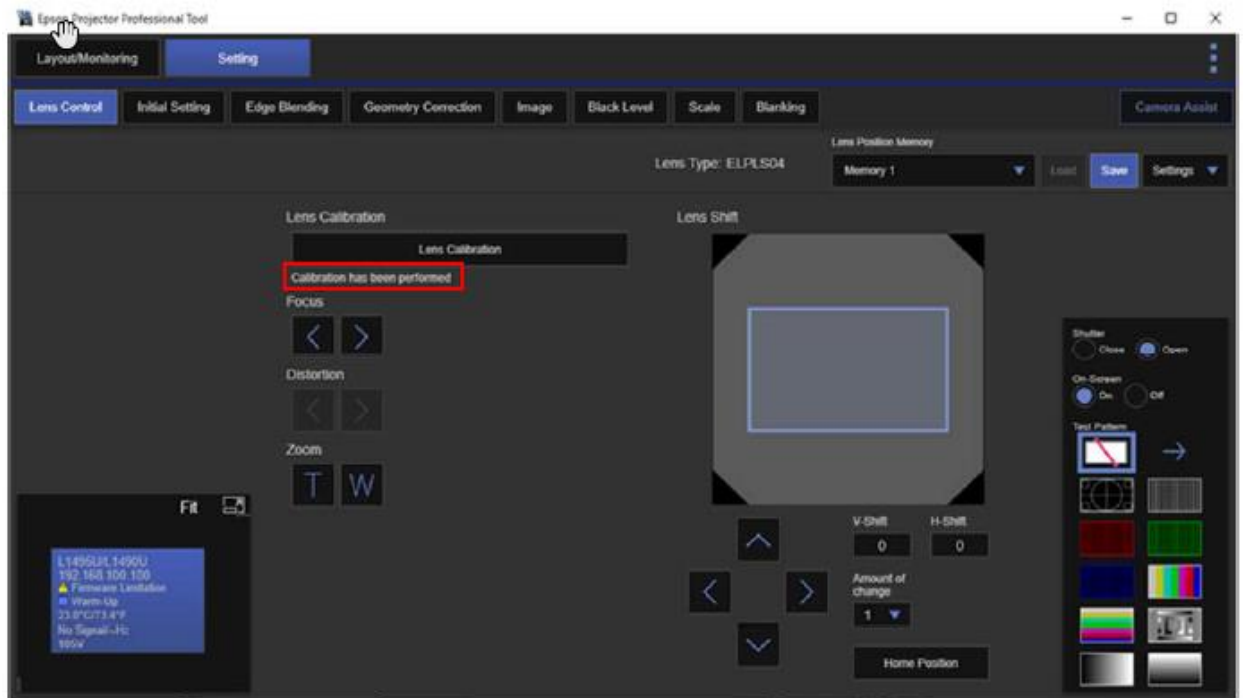


[After update](#)



26) Display the status whether lens calibration has been executed in OSD menu and Professional Tools (V1.30 or later).

1. OSD menu
Extended > Operation > Lens calibration > History
2. Epson Professional Projector Tool (V1.30 or later)



27) Reduces high-frequency noise generated by liquid cooling pump (C-System assembly)

Note: Both hardware and software changes are required to enable the effect against high frequency noise.

The noise reduction effect cannot be obtained only by upgrading the firmware, but product operation is no problem.

v1.33 <Specification change>

- 1) A password change screen is added to the Web Control detailed setting screen to comply with the US CALIFORNIA state IoT device security regulations.
Web control > advanced > Password change screen (see image below)

2) Since there is no definition of the maximum font size of Web Control and the font size is large, the visibility is poor when displayed on a PC browser. Define the maximum font size to improve visibility.

<Bug fix>

1) If applying the batch setting file acquired from the projector with "constant brightness" set to ON, following bug may occur.

- The value of "Estimated Remains" is not displayed correctly

- Laser warning (light source balance warning) may occur

2) After LA error (non-lens attachment error) occurs, laser light leaks at the timing of transition to abnormal standby.

3) There is rarely possibility that if DHCP setting is on and firmware update is performed via network, update may not complete normally.

4) Fixed bug that is able to access advanced setting page directly by skipping Web Control user authentication

5) MIB-2 network information cannot be acquired correctly by SNMP when the wireless LAN is enabled.

v1.32 <Specification change>

1) L12000Q/L12002Q is added (applied from first mass-production)

v1.31 Update contents are only for L12000Q/L12002Q and not applied mass-production

v1.30 <Specification change>

1) Support ELPLU03S (new lens)

2) The aspect ratio is always 4: 3 when displaying split screen.

(Same as past model)

3) Changing fade-in / fade-out control when close/open mechanical shutter to prevent black

level is stand out when before shutter closes by using light source control.

4) MAB stops to communicate with LDDR unit when abnormal power supply voltage (low voltage

or overvoltage) is detected

(There is a possibility that LDDR communication error happens right after abnormal power supply voltage is detected)

<Bug fix>

1) There is possibility that the image freeze when switching the screen size when using split screen function.