TECHNICAL INFORMATION

Firmware History Release Notes

Model: Pro-L1715S/L1750U/L1755U/L1500UH/L1505UH/L1490U/L1495U

Subject: Main firmware release Notes

1. Scope

This document is to inform about the release notes for the main firmware history for above-mentioned models.

2. Updating information (Previous version: V2.22 -> **New version: V2.23)**

2-1. 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. (related TI20-07)

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.

3.The display contents of "Status information"-"Operation Time" of Web Control and the display contents of "Status information"-"Operation Time" of OSD were different, so the Web Control side was modified to display the same.

2-2. Quality improvement

1. Fixed a problem that color calibration and screen matching error occurred when the following projection lenses were installed.

projection lens：ELPLU02/ELPLW04/ELPLS04/ELPLM06/ELPLM07/ELPLM10/ELPLM11

2. When the signal is input to the HDMI source, switching to the DSUB source takes 40 seconds, and no sound is output.

3. Fixed a bug that Firmware update via the network is not completed in the DHCP environment where the router address is not set.

4. Fixed a display error that the move button might disappear on the lens shift screen of Web Control when using the Microsoft Edge browser.

5. Fixed a guide display problem in the correction area of "Curved surface correction" and "Corner wall correction" of Web Control.

6. Fixed a bug that only two digits can be entered as the negative value in the number entry field for Curved / Corner Wall correction of Web Control.

7.When changing the uniformity setting value with the slider bar in Web Control, the setting change may not be

reflected.

8.Fixed a bug that Art Poll reply is not returned when Scan Devices is executed in ArtNet during AV standby, so it is not reflected in the scan result.

9. Fixed the problem that "Auto" is erroneously displayed in the set value list of "Overscan" on the Web control screen when a DVI signal is input to the HDMI / HD-BaseT source.

10.Fixed the problem that the MIB-2 network information cannot be acquired correctly by SNMP when the wireless LAN is enabled.
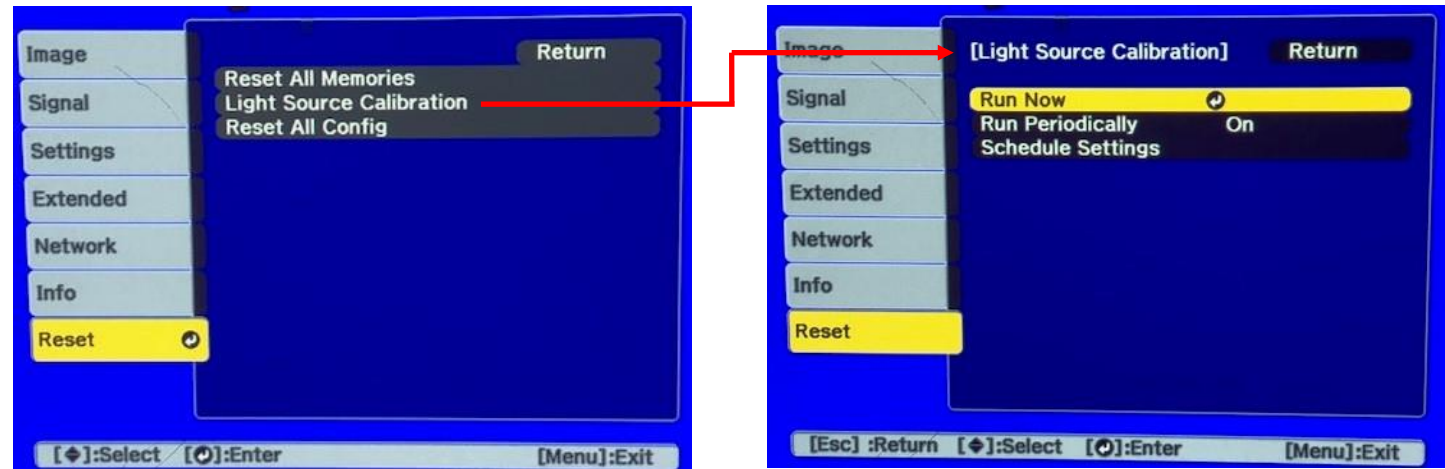
11.Acquire the batch setting data with the constant brightness mode set to "ON". Fixed a problem that the indication of remaining time is displayed incorrectly and the brightness setting is changed when this batch setting data is applied to the projector with the constant brightness mode set to "OFF".

12.Fixed to not be able to access the advanced settings page by skipping Web Control user authentication. (related TI20-06)

5. Firmware version history

Release date	Rev.	Modified contents
Oct 12th, 2017	1.02	- First shipment
Dec. 5th, 2017	1.10	<Specification change> 1. Compatible with "Epson Projector Management V5.10" <Modified Problem> 1. PJ is not detected by the Epson Projector Professional Tool 2. There is a case that the color tone is reversed by switching the Uniformity setting. 3. There is a case that the uniformity adjustment result is not reflected to the Color matching function

Oct. 4th, 2018	2.00	<Function improvement>
		1. Support new projection lens "**ELPLW08**" (Lens shift parameter, Menu structure, Command specification etc.)
		
		<Specification change>
		1. Geometry Correction(H/V-Keystone) supports "**ELPLW08**"
		2. Changed specification of "Light Source Calibration" as below (for detail, see page x. Please also read carefully page y)
		  1) Newly added "**Light Source Calibration**" menu. For detail, see below a-e
		    a. Performing "Light Source Calibration" is possible from menu (see images below)
		    b. Error message pops up to notify that Light Source Calibration is not executable when continuous operation time of Light Source Module is **less than 20 minutes**
		    c. Light Source Calibration that is automatically performed every 100 hours is selectable either "Perform" or "Not perform" by setting a menu "**Run Periodically**" (see images below)
		    d. Newly added short-cut menu of "Schedule Settings" to "Light Source Calibration" menu. (see images below)
		    e. Newly added "**Sync Schedule**" menu to "Schedule Settings" menu.
		     - **All events** registered in the schedule of reference projector is synchronized with other projectors positioned by tiling.
		      (Schedule of other projectors are overwritten by the schedule of reference projector)
		     - "**Sync Schedule**" button become available under the following conditions.
		       A. Event "Light Source Calibration" exists in the schedule of reference projector
		       B. Event "Screen Matching" exists in the schedule of reference projector

- Other than the conditions "A" and "B", the button is not available.

Menu – Light Source Calibration

4. Changing "**On-Screen display : OFF** (Message information not displayed)" condition to "**ON**" by holding Menu button on the projector or Remote Controller more than 3 seconds (Extended -> Display -> Messages)

5. Control algorithm for LD control

   1)Performing "Light Source Calibration" limited by continuous operation time of LD

   Light Source Calibration cannot be performed when continuous operation time of LD is less than 20 minutes.

   (Error message pops up and notify users that the calibration cannot be performed)

   2)Remaining time of Light Source Calibration is shown on the projection image.

6. Support ErP Lot6/26 Tier3 (Support low power consumption at network standby mode)

7. Web control function supports Chrome browser (Version 69.0.3497 or later)

8. Configuration data (Error log, Setting parameter etc) acquirable via network cable (LAN port) even when PJ is in abnormal stand-by mode.

PJ status	Port for acquiring log file	Firmware version	
		V1.40	**V2.00**
Normal	USB port(Service port)	○	○
	LAN port	○※	○※
Abnormal (Standby)	USB port(Service port)	○	○
	LAN port	×	○※

※Network setting of the projector (IP address etc) have been set in advance, and PC with Network Updater installed is connectable to the network of the projector.

<Bug Fix>

1. Fixed a bug "Thumbnail of Test Pattern on the Web Control application disappears when turning Test Pattern on from OSD menu then close it from Web Control application running on IE11 or Edge browser".

2. Fixed a bug 「"**ERR –**" is shown at the "Last Performing Date" when there is no history of Light Source Calibration」

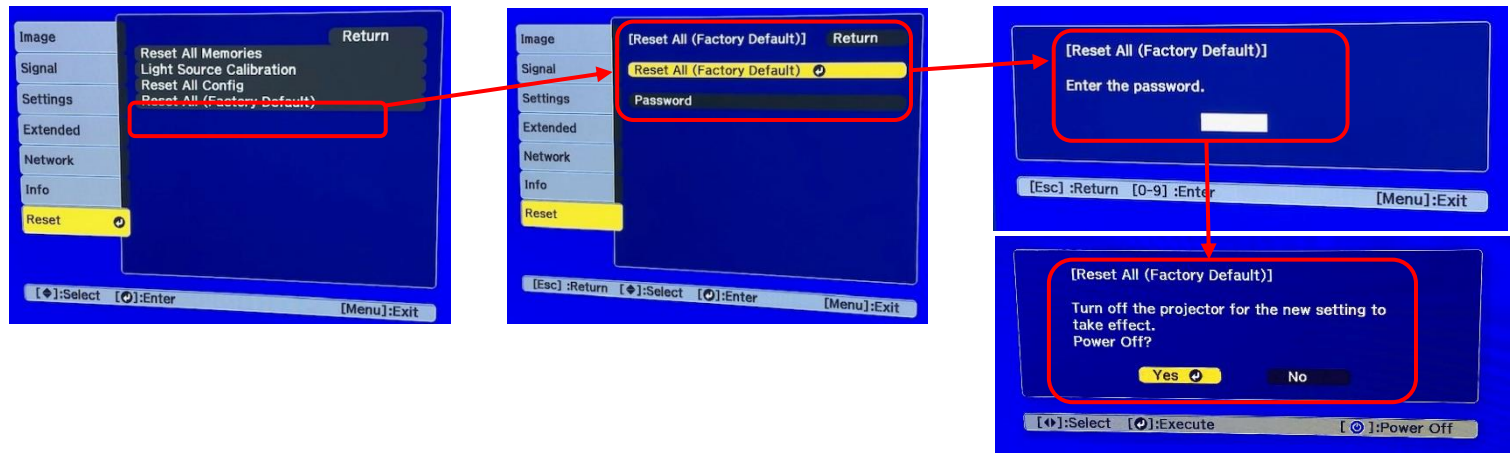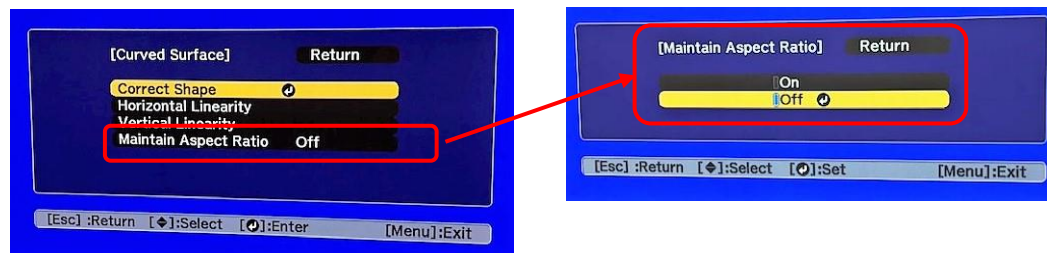| Feb, 22nd, 2019 | 2.10 | <Specification change>
1. Support "Professional Tool Version 1.20"

2. Newly added "**Reset All (Factory Default)**" menu under "**Reset tab**"
   Settings of projector are initialized to factory default except followings.
   (1) Service information (TOT, LOT, Laser On/Off, Error/Warning info etc)
   (2) Date & Time
   (3) Settings protected by password (Ex: User logo, Network settings, Schedule etc)

   <How to perform "All Reset (Factory Default)">
   (1) From OSD menu
      Reset tab -> Reset All (Factory Default) -> Reset All (Factory Default) -> Enter the password

   ・ Default password : "**0000**"
   ・ Password can be entered only with remote controller.
      (Press number button (0~9) while holding "[Num] button" situated at the bot/tom right of the controller
   ・ Message "**Turn off the projector for the new setting to take effect. Power off?**" is displayed when password accepted, so choose "Yes". (Projector is powered off automatically) Then power on the projector again.

   (2) Using control panel
      Power on (AC power input) the projector while holding "Standby" button & "UP" button simultaneously. No password needed[*2]
      *2. This method is disclosed only for EPSON service center |

3. Newly added "**Maintain Aspect Ratio**" under "Curved Surface" menu (Settings tab -> Geometry Correction -> Curved Surface)

4. Countermeasure against WPA2 security vulnerability (KRACKs)
   For detail, please refer TI18-30E.

5. OSD memory function
   (1) Last OSD menu just before it is closed is displayed when pressing Menu button
   (2) Menu cursor jumps to the top of "Menu tab" by holding ESC button for a second
   (3) Menu cursor position in each menu hierarchies are memorized. Therefore, the menu cursor navigates user to previous hierarchy by pressing Enter button.

6. "Lens calibration dialog" is not displayed from the next power-up in case that "No" is chosen in the dialog displayed after lens replacement.
7. Boundary line and points for black level adjustment in "Multi-Projection mode" disappear after pressing Enter button
8. "Lens focus position" is controllable by means of "UP/DOWN button" on the operation panel or "UP/DOWN button" on the remote controller when lens calibration dialog is displayed after power on.
9. Specification of Lens Calibration changed as below.
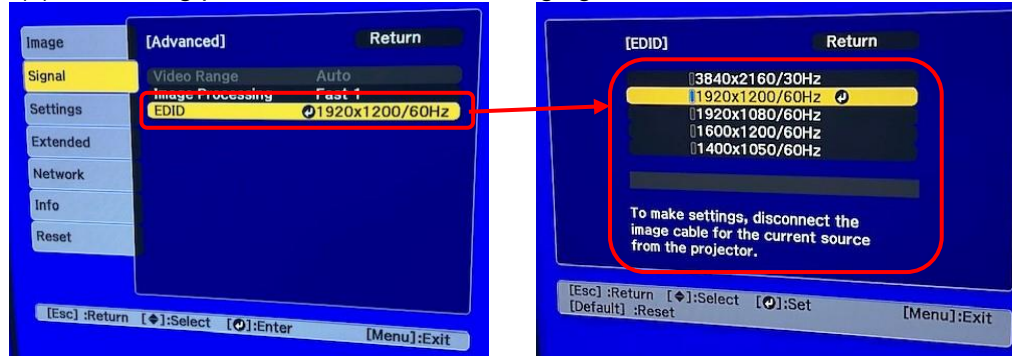   (1) Lens calibration dialog stays on unless user choose on or off.
   (2) When lens position is detected as "out of range for lens shift" after power on, lens calibration is automatically performed.

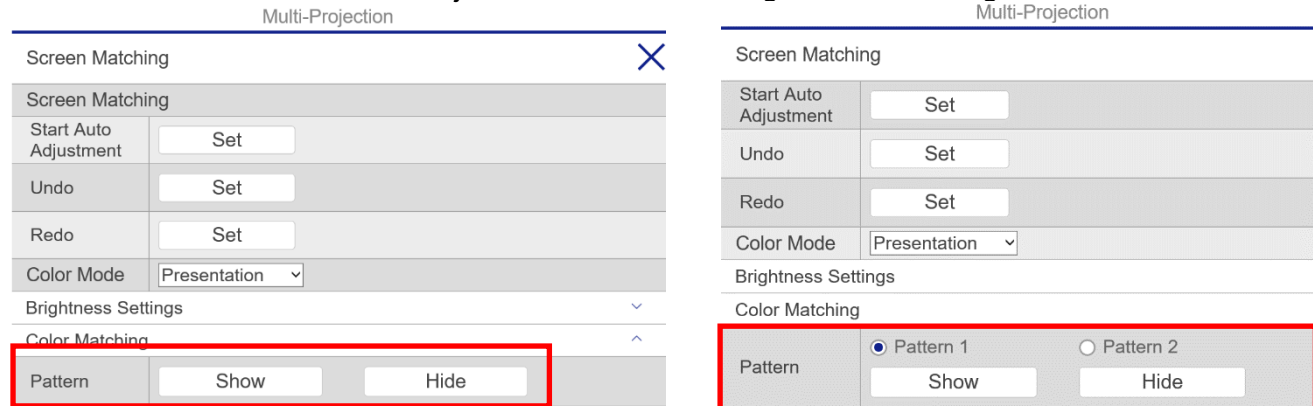|		

		10. Newly added "**EDID**" menu (Signal tab -> Advanced -> EDID)
		   By choosing proper EDID, projection image is correctly displayed in the environment where several signal sources with various resolution are used
		  \<Note>
		   (1) Disconnect the video cable of the current source from the projector then change EDID setting
		   (2) Restarting power is needed after changing EDID is succeeded.
		
		11. Higher limit of brightness level and that factor are displayed in "Brightness Settings" menu under the following conditions.
		   (Settings -> Brightness Settings)
		   (1) Equip a projector with a lens which does not support maximum brightness of the projector
		   (2) Brightness locking function is set to "On"
		
		\<Bug fix>
		1. OSD menu in specific languages
		2. Convergence time of brightness (from 95% -> 100%) when recovering from all black image.
		3. Enclose "MAIL FROM" and "RCPT TO" in "<" & ">" in accordance with RFC standard.
		4. Projection image seamlessly transit to all black when A/V mute is activated.
		5. Few bugs in RTL (Right To Left) language
		6 When edge blending is on via "Web Control", color level adjustment in Black level menu is not correctly reflected to the projection
		   image.

May. 20th, 2019	V2.20	\<Specification change> 1. Support EB/CB/Pro-L1490U/L1495U

<Bug fix>
1. There is no selection button for "pattern 1" and "pattern 2" in color matching setting menu on WEB control display.

Web control > Advanced > Multi-Projection > Screen Matching > Color Matching > Pattern

2. When connecting from Epson Professional Tool to the projector, Epson Professional Tool function can be used without authentication even though Web control password is set.

3. Internal error (I2C error) occur if input signal continues to be unstable due to operations such as repeated cable insertion and removal.

July, 16th, 2019	V2.21	<Specification change>

<Specification change>

1. Following items are excluded from the items initialized by executing "Reset All (Factory Default)"

  a. Brightness value of "Constant Brightness" mode

  b. Accumulated operation time of Constant Brightness mode

2. Response value with respect to "POWR?" Command of PJLink when projector is in "Error standby" was changed as below.

  Before : POWR = ERR4 (It means abnormal standby state) → **After : POWR = 0 (standby state**

  <Reason of the change>

  Some users have encountered that sending "Power Restart" command did not restart projector over PJLink due to projector was in "Abnormal Standby State"

3. Projector is not able to connect to "Crestron RoomView" while it is set to "ON" when lens calibration automatically runs during power on sequence.

Oct. 11th,2019	V2.22	<Specification change> 1. Support new option lens "ELPLU03S" (Lens shift parameter, Menu display, Command specification etc.). <Bug fix> 1..Pixel shift happens for a moment while startup screen is displayed.
Apr,20th,2020	V2.23	Please refer "**3. Updating information (**Previous version : V2.22 -> **New version : V2.23)"** for the detail.

6.Revision History of TI

Release date	Rev.	Modified contents
Dec 27th, 2017	A	New release
Aug 6th, 2018	B	SML V1.03 (Main FW V1.10) was released
Oct 4th, 2018	C	Main FW V2.00 release
Dec 20th, 2018	D	Main FW V2.01 release
Feb 22nd, 2019	E	Main FW V2.10 release
May, 20th , 2019	H	Main FW V2.20 release
June, 27th, 2019	I	Following correction has been made. TI17-56Rev.C, "5.Firmware version history", "Version 2.00" 1. Changing "**On-Screen display: OFF**(Message information not displayed)" condition to "**ON**" by holding Menu button on the projector or Remote Controller more than 3 seconds (On-Screen display function can be set to User button)
July, 16th, 2019	J	Main FW V2.21 release
Oct 11th,2019	K	Main firmware V2.22 release and V2.21 additional information
Apr 20th,2020	L	Main firmware V2.23 release