

# RELEASE NOTES

## E Series Software version 1.0.2.5

### Applies to the following projectors

- DHD670-E and DWU670-E

| <b>File Information</b>                          |                          |                                     |                          |                          |       |  |
|--|--------------------------|-------------------------------------|--------------------------|--------------------------|-------|--|
| <b>FILENAME:</b>                                 | <b>DESCRIPTION:</b>      |                                     |                          |                          |       |  |
|  | Source                   | Binary                              | Disk Image               | Libraries                | Other |  |
| Christie DHD670-E V1025 RS232 Upgrade Wizard.msi | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |       |  |
| Christie DWU670-E V1025 RS232 Upgrade Wizard.msi | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |       |  |
| DHD670-E_C23.bin                                 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |       |  |
| DWU670-E_C23.bin                                 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |       |  |
| Christie A15 Keypad FW Update Wizard.msi         | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |       |  |

### **Special Upgrade Instructions:**

1. There are three components to the upgrade:
  - Upgrade Web FW to version C23
  - Upgrade Main FW to version V1.0.2.5
  - Upgrade Keypad FW to A15 (will not be necessary in most cases)
2. See detailed upgrade instructions in the document "Upgrade Instructions Eseries V1025".

**NOTE:** This software version supports projectors with the new Version C shutter, no shutter or disables the old shutter if installed.

- To determine the version of the installed shutter, refer to Appendix A.
- For installation instructions for Version C shutter, refer to: 020-100870-01 LIT INST SHT E Series Shutter.

### **Major Enhancements in this version:**

1. **Shutter/Picture Mute** - Added support for the Version C shutter:
  - If a Version C shutter (along with jumper) is installed, shutter functions will open and close the shutter.
  - If an old shutter (not Version C) is installed, shutter functions will not drive the shutter, but will perform a Picture Mute. During power up, the software will drive the old shutter once to make sure it's not blocking the light path.
  - If no shutter is installed, shutter functions will perform a Picture Mute.
  - The Status page will display one of the following two options to indicate whether a Version C shutter is installed: "Shutter: Picture Mute Only" or "Shutter: Version C"
  - The Shutter LEDs will operate the same for shutter or picture mute functions.
  - This applies to all shutter initiations from remote button, keypad button, Web or Serial command.

- The shutter button should be held in for 1 to 2 seconds or be given a double press to activate the Picture Mute/Shutter function. For specific actions, Shutter + Up will activate the Shutter/Picture Mute and Shutter + Down will de-activate and return to normal image.
2. **Lens Shift** - Fixed an error that occurred when alternating between two mechanical zoom settings (that are not the max/min zoom points) and shifting the lens to reach its upper and lower vertical limits. The lens was reaching a state where it could not drive to its lowest/highest position.
  3. **Fan Control** - Fixed a calculation error in the fan algorithm when running >28 degree or in high altitude mode, which caused the fans to run at faster than original design. This error only occurred in versions V1.0.2.0 and V1.0.2.2.

## **Major Enhancements in previous release(s):**

### **Version V1.0.2.0**

1. **Image Freeze** - Added Serial Command for the image Freeze function, which was previously available only through the Hotkey: (FRZ1) = Freeze, (FRZ0) = Un- Freeze  
The following limitations exist:
  - If Freeze is enabled, Shutter initiation will switch Freeze off.
  - If the OSD menu is displayed, the Freeze command will remove the menu.
  - If Freeze is enabled, selecting a test pattern via Serial Commands will switch Freeze off.
  - If a Test Pattern is displayed, the Freeze command will be ignored. If the Freeze command was sent via Serial Command, the reply "Disabled Control" will be sent.
2. **Image saccada** - Fixed an issue where a 1920x1080 50hz signal from a PC source to the projectors HDMI input displayed a saccada or jerkiness with slow motion image. At times an image tear was also visible.
3. **Shutter** - Fixed bug where the shutter was being opened inadvertently under the following two conditions:
  - Shutter is closed then the signal cable is inserted (i.e. no signal when shutter is activated)
  - Shutter is closed within 5 seconds of switching to a signal, before the signal detection is stable.The failure can be recovered by opening and closing the shutter again after the signal is stable.

### **Version V1.0.1.2**

4. **Shutter/Picture Mute** - Replaced shutter functionality with Picture Mute to allow the projector to function with the shutter disconnected or removed.
5. **Key Sensitivity** - Sensitivity of the keypad was improved. Keypad FW version A15 should be installed. Refer to Appendix B to determine the current keypad version.
6. **SNMP** - Added SNMP functionality. NOTE: After setting up the email addresses on the web interface, the projector must be power cycled once to enable the transmission of SNMP emails.
7. **Image** - Added the Color enhancement setting to the Advanced Image Setting menu with options "Off", "CE1", "CE2". Default setting is "CE1".
8. **Input timing** – Added 1440x900 at 60Hz and 75Hz to the timing table. Added "Mode adjustment" in the Service menu to allow fine tuning of the EDID timing table. The H & V start position for a signal can be adjusted:
  - The settings will override the timing table.
  - The settings must be "Saved to Record" before exiting the menu, or they will be lost.
  - Factory Defaults will not clear these override settings. Each setting must be manually cleared to go back to original timing table settings.

9. **Serial commands** – Added Warmup and Cooldown states to the serial command request for the Power status. The values returned are:
  - (PWR!0) = Off,
  - (PWR!1) = On,
  - (PWR!10) = cooling down,
  - (PWR!11) = warming up,
10. **Serial commands** – Added feedback for disabled, unknown or invalid Serial commands through Ethernet. An error message will be returned indicating the error: “Invalid Value”, “Control Not Found” or “Disabled”.
11. **Serial commands** - In 1W mode, PWR commands were not working. (Note – Power On is the only command that will work in 1W mode)
12. **Network** - Network stability was improved.  
NOTE: If consecutive network messages are sent to projector faster than 3 per second, the network interface may become slow to respond or may ignore some messages. However, the issue should correct itself after a few seconds.
13. **OSD & Test Patterns** - Geometry correction (Pincushion, Keystone, lens H & V movement) can be done while displaying a test pattern (as for Zoom and Focus) using the dedicated buttons on the IR remote. When a test pattern is present, a pop up box will not be displayed.  
For Pincushion functions which do not have a dedicated key on the remote, the following hot keys can be used: number keys 2 and 8 for V-Pincushion, 4 and 6 for H-Pincushion
14. **Defaults** - The following default settings were changed:  
Picture Setting = Bright, Detail = High, Gamma = Bright, Color Temp = Bright.

## **Version V1.0.0.0**

15. **Color Wheel Index** - Fixed instability with the Color wheel index.
16. **Shutter** - An automatic retry sequence was added to prevent the shutter mechanism from becoming stuck.
17. **Diagnostics** - The Factory mode password has changed. (only required by Service)
18. **Network** - Added pop up message after changing DHCP or other Ethernet settings.
19. **OSD** - Added normal/wide options for Auto setup selected from the menu.
20. **OSD** – Modified the adjustment range for pixel phase of VGA and BNC signals to allow a range large enough to obtain a noise-free image.

## **Known/Outstanding issues with this release:**

### **Image processing**

1. The White/checkerboard test patterns do not fill the screen on the WU unit (hardware limitation). [226]

### **User Interfaces – OSD**

2. A Test pattern and the OSD menu cannot be displayed at the same time due to hardware limitations. [228]

## Appendix A

To determine the Version of the installed shutter:

- Projector models ending with -02 have been manufactured with the Version C shutter:  
133-001102-02, 133-001113-02, 133-001124-02, 133-002103-02, 133-002114-02, 133-002125-02
- Projectors that have been updated to shutter module 003-004145-01 contain the Version C shutter.

To verify which shutter version is detected by the firmware (in version V 1.0.2.2 and higher):

- The Status page will display one of the following two options:
  - Shutter: Picture Mute Only  
or
  - Shutter: Version C

NOTE – this status can be seen only after V1.0.2.2 or higher has been installed.

- “Picture Mute Only” indicates:
  - No Shutter is installed  
or
  - An older version shutter is installed  
or
  - A new shutter is installed but the jumper was not installed.
- “Version C” indicates:
  - A new shutter is installed and the jumper has been correctly installed.

## Appendix B

To determine the current keypad version, log in to the projector’s web page. The Keypad Firmware version should be: **Keypad Firmware: 15**

The screenshot shows the Christie Web UI interface in Internet Explorer. The browser address bar shows the URL <http://192.168.229.58/cgi/status.tgi>. The page header includes the Christie logo, the model name "DHD670-E", and the serial number "011102041". A "Logout" button is visible in the top right corner. The main navigation menu on the left includes "Main", "Network Setting", "Tools", "Administrator", and "About". The "Status" tab is selected, and the "Version" sub-tab is active. The "Version" table displays the following information:

| Version           |           |
|-------------------|-----------|
| Main Firmware:    | 1020      |
| Configuration:    | 0024      |
| Boot Code:        | 0004      |
| Keypad Firmware:  | 15        |
| Network Firmware: | C22       |
| Model Name:       | DHD670-E  |
| Serial Number:    | 011102041 |

At the bottom of the page, there are buttons for "Lamp Info", "Cooling", "Version", and "Signal".