

Q8 V1.6.0

2025-04-16







# **1** V1.6.0

## 1.1 Supporting Software

PixelFlow 1.6.0

## 1.2 Supporting Event Controllers

U5 V1.6.0 U5 Pro V1.6.0

## 1.3 Update Instructions

## 1.3.1 Online Update



In PixelFlow, choose **Maintain** > **Device**. Select the device you want to update, and cick **Update**. In the pop-up dialog box, select the update file (.img) and click **OK**. Then, confirm the device to be updated, and click the **Update** button again. In the pop-up dialog box, click **Yes** and wait until the update completes.

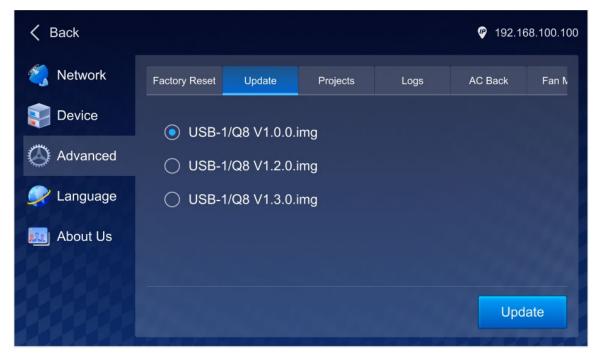
During the update process, please DO NOT POWER OFF the device or do any other operations.

## 1.3.2 Local Update via USB Drive

The Q8 supports firmware update via USB drive. To do that, save the update file in the root directory of the USB drive and then insert the drive into the USB port on the control card of the Q8.

On the **Advanced** screen, tap **Update** to enter the firmware update screen and the system will automatically detect and read the update file in the USB drive.





Select the target update file, tap **Update**, and the system will automatically update the device.

The device will automatically restart during the update.

### 1.4 New Features

#### 1.4.1 Audio Matrix

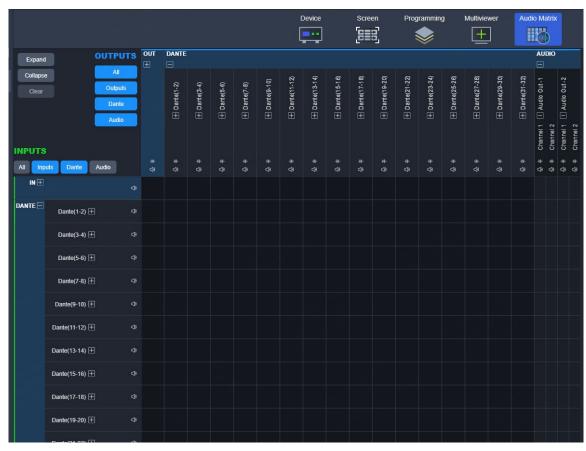
Allows users to manage audio inputs and outputs and map audio channels.

#### **Description**

V1.6.0 of switchers introduces an audio matrix feature. By clicking the **Audio Matrix** tab at the top of the homepage of PixelFlow, users can access the **Audio Matrix** tab page.

The top left corner of the page is the quick actions panel. The list on the left displays the inputs, where you can view input channel names and channel audio status, and mute the channels. The list at the top displays the outputs, where you can view the output channel names, play the test sound, and mute the channels. Click an input/output to expand or collapse the list.





On the **Device** tab page, click the Dante Ethernet ports to view Dante settings and change RX and TX channel names.





## 1.4.2 Output Connector Groups

## **Purpose**

Increases the utilization of all connectors, allowing more connectors to be used for display, while accommodating different types of connectors for concurrent screen configuration.

## **Description**



- Connectors are selected in groups. When the timing and effects of one connector within a
  group are modified, the timing and effects of the other connectors within this group are
  synchronously modified.
- When the specified timing is not supported by another connector, a prompt is displayed, saying that the connector will have no output.
- Different types of connectors can be used for configuration of a single screen.
- The connectors within a connector group output contents simultaneously, increasing the utilization of connectors.

#### 1.4.3 Antistatic

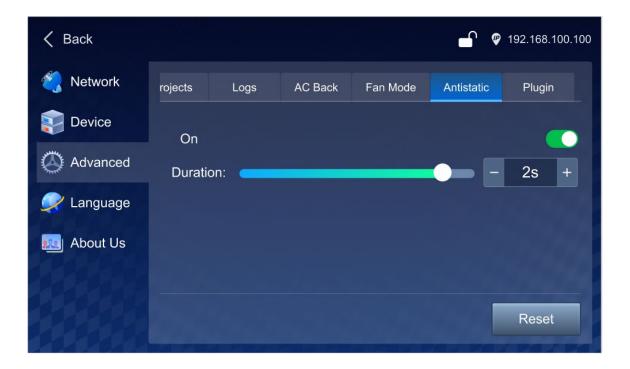
#### **Purpose**

In dry climate regions, static electricity tends to be more prevalent and can destabilize input sources, causing frequent disconnections. However, connectivity resumes immediately after static interference ceases. During such periods, users expect to avoid unintended triggers like hot-switching from primary source to backup source or screen blackouts. An antistatic function is required to prevent unwanted changes during interference.

#### **Description**

Access: Front panel LCD > Advanced > Antistatic





## 1.4.4 Full-Link 3D

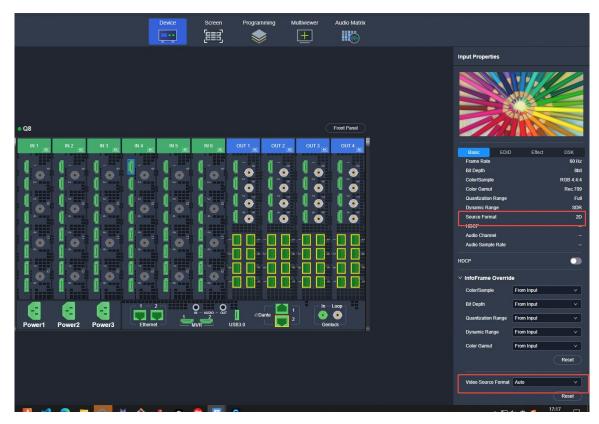
## **Purpose**

During live events, 3D sources may be used. As a video processing device, the presentation switcher must support input, processing, and output of 3D video sources.

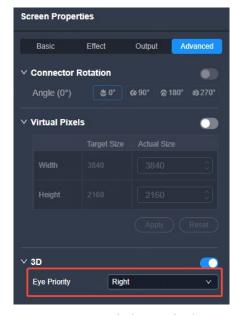
### **Description**

In the Input **Properties** section of the **Device** page, users can check whether the source is 2D or 3D. The 3D source type can either follow the source format or be manually overridden.



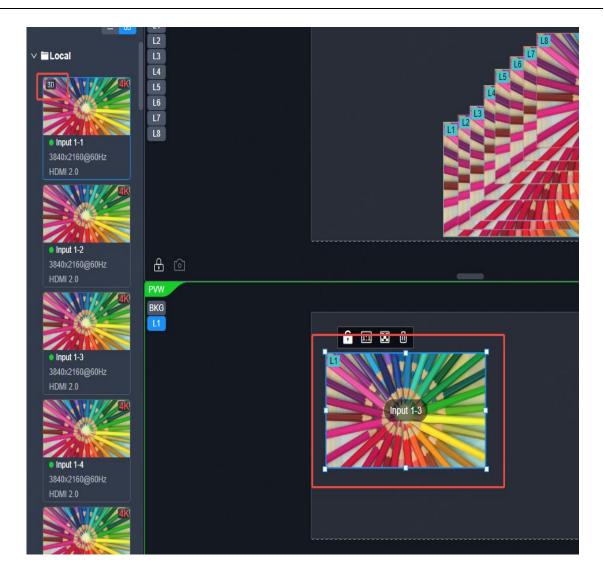


By navigating to **Screen > Screen Properties > Advanced**, users can set eye priority. (The switcher will uniformly process the input 3D source into a frame sequential format before output. By setting the first frame as a left or right eye image, it ensures correct matching with the backend display device.)



In the source list (left panel) of the **Programming** page, 3D sources are marked with a 3D icon in the top-left corner. The processed source will be displayed in the canvas area, with the side-by-side format showing the left image and the top-and-bottom format showing the top image.





## 1.5 New Output Card

Q8\_HDMI2.0x4+DP1.2x4+SFPx8 Output Card



The 4x HDMI 2.0 and 4x DP 1.2 connectors are divided into 4 groups. Each group includes 1x HDMI 2.0 and 1x DP 1.2, and connectors within the same group copy each other's output.

- Connector 1 (HDMI 2.0) and connector 5 (DP 1.2) form Group 1.
- Connector 2 (HDMI 2.0) and connector 6 (DP 1.2) form Group 2.
- Connector 3 (HDMI 2.0) and connector 7 (DP 1.2) form Group 3.
- Connector 4 (HDMI 2.0) and connector 8 (DP 1.2) form Group 4.

#### 4x HDMI 2.0

• Up to 4K×2K@60Hz 8bit 4:4:4 or 4K×2K@60Hz 12bit 4:2:2 output



- Support for 8-bit, 10-bit and 12-bit output settings
- Support for 4:2:2 and 4:4:4 output settings
- Support for YCbCr and RGB color space settings
- Support for HDR outputs
- Support for color gamut adjustment
- Support for interlaced video signal
- Support for 8-channel embedded audio (24bit/48kHz)
- Custom resolutions

Maximum width: 8192 pixels

- Maximum height: 8186 pixels

#### 4x DP 1.2

- Up to 4K×2K@60Hz 10bit 4:4:4 or 4K×2K@60Hz 12bit 4:2:2 output
- Support for 8-bit, 10-bit and 12-bit output settings
- Support for 4:2:2 and 4:4:4 output settings
- Support for YCbCr and RGB color space settings
- Support for 3D outputs
- No support for interlaced video signal
- Support for 8-channel embedded audio (24bit/48kHz)
- Custom resolutions

Maximum width: 8192 pixels

Maximum height: 8186 pixels

#### 8x 10G OPT

- Support for single-mode and multi-mode optical outputs
- Transmission distance up to 10km in single mode
- Support for 8-channel embedded audio (24bit/48kHz)
- OPT ports copy outputs on video connectors
  - OPT 1 and OPT 2 copy the output from Group 1.
  - OPT 3 and OPT 4 copy the output from Group 2.
  - OPT 5 and OPT 6 copy the output from Group 3.
  - OPT 7 and OPT 8 copy the output from Group 4.

#### **Status LEDs**

Each HDMI and DP output connector has a status LED which indicates the connection status of backend device. The optical port does not have status LEDs.

- On: The output connection is normal.
- Off: The output connection is abnormal.



## 1.6 Improvements

Improvement	Before	After
Layer repositioning by keyboard shortcuts	Layers can be repositioned only by dragging them or entering the coordinates.	After selecting a layer, you can move it in one-pixel increments using the keyboard arrow keys. By using <b>Shift</b> along with the arrow keys, the layer will move in increments of ten pixels. Holding the keys allows for continuous movement.
Capable of keying out white background	DSK in smart mode does not allow white background to be keyed out.	DSK in smart mode allows white background to be keyed out.  Layer Preset  Basic Advanced DSK Effect  V DSK  Mode Smart  Coordinates  Pick X 1680 Y 840  Background Point C  R 255 G 255 B 255  Apply
Deinterlacing delay	Deinterlacing delay: 2 frames	Deinterlacing delay: 1 frame
Genlock Multiplication	Genlock only supports the frame rate of the sync source.	You can choose to synchronize at a 1x or 2x multiplier of the sync source's frame rate.  Synchronization  Sync To:  Frame Rate:  Multiplier:  Apply



## 1.7 Changes

Change	Before	After
Genlock synchronization rule	After synchronization settings are completed, the synchronization signal is unstable, and it automatically synchronizes each time when the signal is reconnected.	Automatic synchronization is cancelled.  After a synchronization failure, the user needs to click <b>Apply</b> to resend synchronization parameters.   Synchronization   Genlock  Frame Rate:  Multiplier:  Apply
Output color space	The color space options on the output connector and screen properties pages support YCbCr 4:2:0.	YCbCr 4:2:0 is removed from the color space options on the output connector and screen properties pages.  VHDMI HDCP Close V Color/Sample RGB 4:4:4 VCbCr 4:2:2 Dynamic Range YCbCr 4:4:4 Color Gamut Rec.709
A prompt is added in advanced timing	Audio information is not included in advanced timing.	After audio is added, if HBlank is ≤110 in advanced timing, it may result in a black screen. A prompt is added: "When HBlank is ≤110, it may lead to abnormal output. It is recommended to reconfigure the timing settings."  Basic Effect Output Advanced  ▼ Timing At this timing,SDI connector has no output.  Resolution Custom ▼  W8184 ↓ H 2160 ↓  Frame Rate 32.77 Hz ▼  Advanced When HBlank is ≤110, it may lead to abnormal output. It is recommended to reconfigure the timing settings.  H Total 8280 ↓  H Active 8184 ↓  H Front Porch 48 ↓  H Sync 32 ↓  H Polarity + ● -
Advanced timing	Minimum vertical back porch: 1	Minimum vertical back porch: 3



Change	Before	After
Input backup location	Input backup needs to be configured on the device information page.	Moved to Input Backup in the upper right corner of the Device page.  Device Information Input Backup  Backup Status  + Add  Primary Source  Backup Source  Input 2-HD  Input 3-HD  I
Input backup		<ol> <li>The backup source can be used to create layers independently and does not participate in the backup relationship.</li> <li>A backup relationship can be established automatically between a cropped source and its original source (Click Crop Auto Backup shown as below to automatically create a backup relationship).</li> <li>Users can switch between the primary and backup sources using the buttons on the event controller.</li> <li>One source can be configured as the backup of multiple primary sources.</li> <li>Each backup relationship supports the independent configuration of primary source prioritization and automatic switching.</li> <li>Input backup relationships between sources with different capacities are not allowed.</li> </ol>
		Backup Status  + Add  Primary Source  • • Input 1-1  • Input 1-2  • Input 1-4  • Input 1-4   Primary Source Preferred  Auto Switch  Crop Auto Backup  Delete
DP connectors		DP connectors do not support interlaced signal output.



## 1.8 Bug Fixes

Function	Bug Description	Remarks
Device startup	Functional anomalies occur due to internal communication errors in devices after a power-reset.	
Input view	The connection of a Mac computer as an input source causes a color cast in input view.	
	There is an inconsistency between the preview and input view images.	
Diagnostics	There is a device diagnostics error upon startup.	Perform a manual diagnostics check. Once successful, the startup diagnostics results become normal, and the error popup disappears.
	Anomalies are prompted during device operation.	
Connector	There are compatibility issues with the DP input connector.	

## 1.9 Notes

## 1.9.1 Version Compatibility

When importing project files from lower version devices into higher version devices, the output connectors on screens created using SDI may disappear.

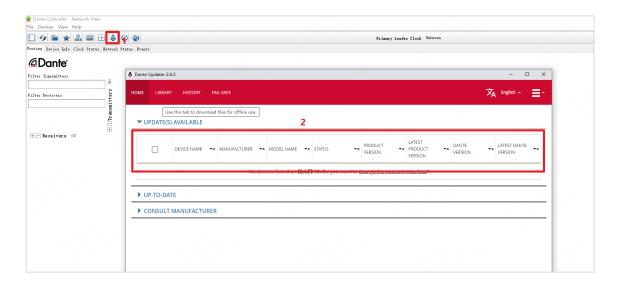
Solution: Create the screen again and drag the output connectors to the screen to complete screen configuration.

## 1.9.2 Update Dante

The Dante firmware (.dnt) is pre-installed upon manufacture, and the audio matrix function can be directly used in PixelFlow. It is not advisable for users to update Dante firmware with packages not officially released by PixelFlow. Should any subsequent updates be necessary, use the official Audinate software, Dante Controller, as detailed below:

- 1. Download the official Audinate software, Dante Controller, from the website: https://www.audinate.com/
- 2. Within the Dante Controller software, click **Dante Updater** and select the firmware update released by PixelFlow from the available updates, as illustrated in the figure below.





#### 1.9.3 Antistatic

When the antistatic function is enabled, if an input signal is disconnected due to instability, the source image will freeze on the last frame before signal loss throughout the specified protection duration. This prevents input source hot-switching until signal recovery. If the signal remains disconnected beyond this duration, it will be treated as disconnection. The longer the duration you set, the longer the image remains frozen.

## **2** Previous Versions

None

[Bug Fixes]

- 1. Fixed the issue where there was noticeable stuttering during the hot backup switching of input sources.
- 2. Fixed the issue where the screen briefly flashed black during the backup process for input sources with the same resolution and frame rate.
  - 3. Fixed the issue where the PGM layer was incorrectly displayed on the PVW.
- 4. Fixed the issue where the Type-C to DP connector was not recognized.



- 5. Fixed the issue of still layers showing a black screen or some layers not displaying images after repeatedly loading presets.
  - 6. Fixed the issue where the touch on the LCD screen was unresponsive.
- 7. Fixed the issue where enabling the BKG function did not take effect after an update.
- 8. Fixed the issue where neither the software nor the LCD refreshed after two out of three power sources were disconnected.
- 9. Fixed the issue where changing the Genlock source resolution did not cause a brief black screen and resulted in incorrect frame rate.
- 10. Fixed the self-check anomalies of serdes\_status and det\_clk\_freq0 on the control card of certain devices after powering up.
- 11. Fixed the issue where switching to the internal sync source after the Genlock source was lost caused a brief black screen.

1. Improved compatibility of the DP connector on input cards with graphics cards.

[Notes]

None

[Components]

Q8 mainframe version V1.5.1

1. Input card versions:

Q8\_Input Processing Card

V1.0.0.73.STD

Q8\_HDMI2.0+DP1.2+12G-SDI Input Card V1.0.0.73.STD

Q8\_ST2110\_4xSFP25G Input Card V1.0.0.73.STD

Q8\_ST2110\_4xSFP25G Input Card\_I V1.0.0.73.STD

2. Output card versions:

Q8\_Output Processing Card V1.0.0.73.STD

Q8\_HDMI2.0+12G-SDI+Fiber Output Card V1.0.0.73.STD

[Q8 Mainframe] Q8 V1.4.5

[Supporting Software] PixelFlow V1.4.4

[Matching Controller] U5 V1.4.5

[New Features]

None

[Changes]

None

[Bug Fixes]

1. Fixed the issue of the device not recognizing the DP source upon reboot.



- 2. Fixed the issue of frequent Genlock failure reporting.
- 3. Fixed the issue of blurry screen both on the main screen and Multiviewer screen.

None

#### [Notes]

- 1. When upgrading the card individually, a forced reboot is required.
- 2. The screen would go black briefly when the source is disconnected and then reconnected after a successful Genlock synchronization.
- 3. When opening a still layer using a 64x64 image after a power cycle, the first frame occasionally fails to display. Moving the layer position would resolve the display issue.

#### [Components]

Q8 mainframe version V1.4.5

1. Input card versions:

Q8\_Input Processing Card

V1.0.0.64.STD

Q8\_HDMI2.0+DP1.2+12G-SDI Input Card V1.0.0.64.STD

Q8\_ST2110\_4xSFP25G Input Card V1.0.0.64.STD

Q8\_ST2110\_4xSFP25G Input Card\_I V1.0.0.64.STD

2. Output card versions:

Q8\_Output Processing Card

V1.0.0.64.STD

Q8\_HDMI2.0+12G-SDI+Fiber Output Card V1.0.0.64.STD

\*\*\*\*\*\*\*\*\*\*2024.9.9 Q8

[Q8 Mainframe] Q8 V1.4.4

[Supporting Software] PixelFlow V1.4.4

[Matching Controller] U5 V1.4.4

[New Features]

- 1. Support for the second-generation Q8\_HDMI2.0+DP1.2+12G-SDI Input Card.
- 2. Fan mode switching
- 3. Support for the -Z model power module
- 4. Support for PixelFlow's new version of BKG gallery
- 5. noVS performance improvement

#### [Changes]

None

#### [Bug Fixes]

- 1. Fixed the issue of lag when switching between the two backup sources of the ST2110 input card.
- 2. Fixed the issue where the input card failed to recognize input sources after the 6800 graphics card is restarted.



- 3. Fixed the issue where static layers occasionally could not be created but functioned normally after being moved.
- 4. Fixed the startup issue that occurred in version V1.4.0 when the second-generation input card was inserted.
  - 5. Fixed the issue where the output has no timing after upgrading the card alone.
- 6. Fixed the issue of frequent SDI source status reporting.
- 7. Fixed the issue where, with the primary source preferred function enabled, the software showed the primary source as active, but the actual output was from the backup source.
- 8. Fixed the issue where, after configuring the aging software, the MVR connector indicator remained on after a soft shutdown.
- 9. Fixed the issue where the editing page would time out without any operation after the device was powered on.
- 10. Fixed the issue where layers lacked numbering, and it was impossible to set layer numbers via the properties panel on the right.

1. Optimized the noVS activation speed to prevent black screen from appearing on backend devices.

#### [Notes]

1. When upgrading the card individually, a forced reboot is required.

#### [Components]

Q8 mainframe version V1.4.4

1. Input card versions:

Q8\_Input Processing Card V1.0.0.61.STD

Q8\_HDMI2.0+DP1.2+12G-SDI Input Card V1.0.0.61.STD

Q8\_ST2110\_4xSFP25G Input Card V1.0.0.61.STD

Q8\_ST2110\_4xSFP25G Input Card\_I V1.0.0.61.STD

2. Output card versions:

Q8\_Output Processing Card V1.0.0.61.STD

Q8\_HDMI2.0+12G-SDI+Fiber Output Card V1.0.0.61.STD

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[Q8 Mainframe] Q8 V1.4.2

[Supporting Software] PixelFlow V1.4.0

[Matching Controller] U5 V1.4.0

[New Features]

None

[Changes]

None

[Bug Fixes]



- 1. Fixed the issue with occasional startup anomalies on the MCU of the backplane, connector card or processing card.
  - 2. Fixed the garbage collection issue in the KeyFrame function.
  - 3. Fixed the file handling issue when importing SDP files on the ST2110 input card.
- 4. Fixed the issue of layer flickering when using the ST2110 source as a sync source and moving layers.
  - 5. Fixed the missing icon issue in the upgrade success pop-up window.
  - 6. Fixed the display issue with the default style of the OPT output port.
  - 7. Fixed the issue where colored borders were not fully displayed.
- 8. Fixed the issue of abnormal information reporting for the SDI input connector when connected to a YUV4:2:2 8-bit source.

- 1. Device information display module on LCD: When the SN is not programmed into the connector card or processing card, it is now displayed as "--" instead of "0000000000000000" or "ffffffffffff".
- 2. FPGA: Communication optimization for input connector cards and processing cards: Removed proactive source change reporting to avoid conflicts with MCU communication.

#### [Notes]

1. When upgrading the card individually, a forced reboot is required.

#### [Components]

Q8 mainframe version V1.4.2

1. Input card versions:

Q8\_Input Processing Card V1.0.0.51.STD

Q8\_HDMI2.0+DP1.2+12G-SDI Input Card V1.0.0.48.STD

Q8\_ST2110\_4xSFP25G Input Card V1.0.0.51.STD

Q8\_ST2110\_4xSFP25G Input Card\_I V1.0.0.51.STD

2. Output card versions:

Q8\_Output Processing Card V1.0.0.51.STD

Q8\_HDMI2.0+12G-SDI+Fiber Output Card V1.0.0.51.STD

[Q8 Mainframe] Q8 V1.4.1

[Supporting Software] PixelFlow V1.4.0

[Matching Controller] U5 V1.4.0

[New Features]

None

[Changes]

None

[Bug Fixes]



1. Fixed the occasional issue of layer blackout caused by input source resolution changes.

#### [Improvements]

None

#### [Notes]

1. When upgrading the card individually, a forced reboot is required.

#### [Components]

Q8 mainframe version V1.4.1

1. Input card versions:

Q8\_Input Processing Card

V1.0.0.48.STD

Q8\_HDMI2.0+DP1.2+12G-SDI Input Card V1.0.0.48.STD

Q8\_ST2110\_4xSFP25G Input Card V1.0.0.48.STD

Q8\_ST2110\_4xSFP25G Input Card\_I V1.0.0.48.STD

2. Output card versions:

Q8\_Output Processing Card

V1.0.0.48.STD

Q8\_HDMI2.0+12G-SDI+Fiber Output Card V1.0.0.48.STD

[Q8 Mainframe] Q8 V1.4.0

[Supporting Software] PixelFlow V1.4.0

[Matching Controller] U5 V1.4.0

[New Features]

- 1. Multiple switchers can be controlled simultaneously by a single event controller or PC with PixelFlow
- 2. Layer KeyFrame
- 3. BKG size and position adjustment
- 4. End-to-end HDR settings
- 5. Layer preset
- 6. Smart key

[Changes]

None

[Bug Fixes]

- 1. Fixed the issue where the device IP address in the logs after exporting to a USB drive does not match the device's IP.
- 2. Fixed the issue of incorrect version number displayed after upgrade.
- 3. Fixed the issue with ESD protection failure during input source detection.
- 4. Fixed the issue of the ST2110 input card malfunctioning due to multiple switching between manual IP settings and DHCP.



- 5. Fixed the occasional issue of a blackout occurring on a layer after power cycling.
- 6. Fixed the rare flickering issue when switching connector types on a source-less layer.

None

#### [Notes]

1. When upgrading the card individually, a forced reboot is required.

#### [Components]

Q8 mainframe version V1.4.0

1. Input card versions:

Q8\_Input Processing Card

V1.0.0.46.STD

Q8\_HDMI2.0+DP1.2+12G-SDI Input Card V1.0.0.46.STD

Q8\_ST2110\_4xSFP25G Input Card V1.0.0.46.STD

Q8\_ST2110\_4xSFP25G Input Card\_I V1.0.0.46.STD

2. Output card versions:

Q8\_Output Processing Card

V1.0.0.46.STD

Q8\_HDMI2.0+12G-SDI+Fiber Output Card V1.0.0.46.STD

[Q8 Mainframe] Q8 V1.3.4

[Supporting Software] PixelFlow V1.3.3

[Matching Controller] U5 V1.3.3

[New Features]

None

[Changes]

None

#### [Bug Fixes]

- 1. Fixed frequent MCU freeze issues when using input cards with Mac computers.
- 2. Fixed the occasional program crashes due to card communication timeouts.
- 3. Fixed the FPGA loading issue due to the FPGA hardware differences.

[Improvements]

None

[Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

[Components]

Q8 mainframe version V1.3.4



1. Input card versions:

**Q8\_Input Processing Card** 

V1.0.0.43.STD

Q8\_HDMI2.0+DP1.2+12G-SDI Input Card V1.0.0.43.STD

Q8\_ST2110\_4xSFP25G Input Card V1.0.0.43.STD

Q8\_ST2110\_4xSFP25G Input Card\_I V1.0.0.43.STD

2. Output card versions:

Q8\_Output Processing Card

V1.0.0.43.STD

Q8\_HDMI2.0+12G-SDI+Fiber Output Card V1.0.0.43.STD

[Q8 Mainframe] Q8 V1.3.

[Supporting Software] PixelFlow

[Matching Controller] U5 V1.3.1

[New Features]

1. Added support for the Q\_ST2110\_4xSFP25G input card\_I.

[Changes]

None

[Bug Fixes]

- 1. Fixed the issue of unstable operation after the device runs for extended periods.
- 2. Fixed the issue of abnormality in the source hot backup function on the ST2110 input card.

V1.3.1

- 3. Fixed the issue where the ST2110 input card recognizes interlaced signals as progressive signals.
- 4. Fixed the issue where other devices may fail to recognize the HDMI output signal at 3840x2160@50Hz and 60Hz.

[Improvements]

None

[Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

[Components]

Q8 mainframe version V1.3.1

1. Input card versions:

Q\_Input Resource Card

V1.0.0.36.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.36.STD

Q\_ST2110\_4xSFP25G Input Card V1.0.0.36.STD

Q\_ST2110\_4xSFP25G Input Card\_I V1.0.0.36.STD

2. Output card versions:

Q\_Output Resource Card

V1.0.0.36.STD



#### Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.36.STD

[Q8 Mainframe] Q8 V1.3.0

[Supporting Software] PixelFlow V1.3.0

[Matching Controller] U5 V1.3.0

[New Features]

- 1. Added support for the ST2110 input card.
- 2. Added the connector HDR feature.
- 3. Added the output connector rotation feature.
- 4. Added the layer resource display feature.
- 5. Added the feature of layer outer borders and halo borders.
- 6. Added the layer shadow feature.

#### [Changes]

None

[Bug Fixes]

- 1. Fixed the issue where, when multiple resource cards are installed on the Q8 in sequence, the resource cards without sub-cards have no MVR configuration.
- 2. Fixed the issue where there is a delay when turning on the cut and fill feature.
- 3. Fixed the issue where the startup and shutdown windows occasionally appear on the front LCD screen during the update process.

#### [Improvements]

None

[Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

#### [Components]

Q8 mainframe version V1.3.0

1. Input card versions:

Q\_Input Resource Card V1.0.0.34.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.34.STD

Q\_ST2110\_4xSFP25G Input Card V1.0.0.34.STD

2. Output card versions:

Q\_Output Resource Card V1.0.0.34.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.34.STD



[Q8 Mainframe] Q8 V1.2.1

[Supporting Software] PixelFlow V1.2.1

[Matching Controller] U5 V1.2.0

[New Features]

None

[Changes]

None

[Bug Fixes]

- 1. Fixed the issue where the DP YUV422 4K@60Hz signal from Mac computers is inconsistently recognized by the Q8.
- 2. Fixed the issue where the connector copying function exhibits unusual behavior when Genlock is activated.

[Improvements]

None

[Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

[Components]

Q8 mainframe version V1.2.1

1. Input card versions:

Q\_Input Resource Card

V1.0.0.33.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.33.STD

2. Output card versions:

Q\_Output Resource Card V1.0.0.33.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.33.STD

[Q8 Mainframe] Q8 V1.2.0

[Supporting Software] PixelFlow V1.2.0

[Matching Controller] U5 V1.2.0

[New Features]

- 1. Added the feature of quick switching to the backup input source.
- 2. Added a device noVS backup feature.
- 3. Added the cut and fill feature.
- 4. Added an edge blending feature
- 5. Added the bezel compensation feature.



#### [Changes]

#### None

#### [Bug Fixes]

- 1. Fixed the issue of upgrade process getting stuck at 21%.
- 2. Fixed the issue of occasionally encountering an error when selecting the Genlock source with Genlock enabled on multiple screens.
- 3. Fixed the occasional logic issue encountered when modifying IP address on the LCD screen.
- 4. Fixed the logic issue encountered when opening still layers.
- 5. Fixed the compatibility issue with DP 1.2 input connectors.
- 6. Fixed the issue of incorrect HDCP status when HDCP is enabled on MVR connectors.

#### [Improvements]

None

#### [Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

#### [Components]

Q8 mainframe version V1.2.0

1. Input card versions:

Q\_Input Resource Card

V1.0.0.26.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.26.STD

2. Output card versions:

**Q\_Output Resource Card** 

V1.0.0.26.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.26.STD

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[Q8 Mainframe] Q8 V1.1.3

[Supporting Software] PixelFlow V1.1.1

[Matching Controller] U5 V1.1.1

[New Features]

None

[Changes]

None

#### [Bug Fixes]

- 1. Fixed the issue of image freezing during preset playback on SDI based screens.
- 2. Fixed the issue of blurry output images at certain scaling ratios by adjusting the sharpness coefficients.

[Improvements]

None



#### [Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

#### [Components]

08 mainframe version V1.1.3

1. Input card versions:

Q\_Input Resource Card

V1.0.0.18.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.18.STD

2. Output card versions:

**Q\_Output Resource Card** 

V1.0.0.18.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.18.STD

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[Q8 Mainframe] Q8 V1.1.2

[Supporting Software] PixelFlow V1.1.1

[Matching Controller] U5 V1.1.1

[New Features]

None

[Changes]

None

#### [Bug Fixes]

- 1. Fixed the issue of abnormal EDID locking of DP input connectors.
- 2. Improved the compatibility for DP input connectors.
- 3. Modified the driver of HDMI output connectors to fix their pixel flickering issue.
- 4. Fixed the Q8 upgrade failure issue.

[Improvements]

None

#### [Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

[Components]

Q8 mainframe version V1.1.2

1. Input card versions:

Q\_Input Resource Card

V1.0.0.18.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.18.STD

2. Output card versions:

Q\_Output Resource Card

V1.0.0.18.STD



#### Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.18.STD

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[Q8 Mainframe] Q8 V1.1.1

[Supporting Software] PixelFlow V1.1.1

[Matching Controller] U5 V1.1.1

[New Features]

None

[Changes]

None

[Bug Fixes]

- 1. Fixed the issue of unstable connection between connector 4 of the W8100 graphics card and Q8 input connectors.
- 2. Fixed the issue where 4K×2K@60Hz sources from the D3 9100 graphics card cannot be recognized occasionally.
- 3. Fixed the issue where the image effect does not change when the opacity of still layers exceeds 50%.
  - 4. Fixed the issue where the Q8 cannot recognize the DP connectors of M2/M2 Max laptops.

#### [Improvements]

None

[Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

#### [Components]

Q8 mainframe version V1.1.1

1. Input card versions:

Q\_Input Resource Card V1.0.0.17.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.17.STD

2. Output card versions:

Q\_Output Resource Card V1.0.0.17.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.17.STD

[Q8 Mainframe] Q8 V1.1.0

[Supporting Software] PixelFlow V1.1.0 [Matching Controller] U5 V1.1.0



#### [New Features]

- 1. Supports opening layers with PGM sources on other screens.
- 2. Added a limit for the number of power supplies during device start.
- 3. Displays USB device plugging and unplugging status.
- 4. Automatically performs diagnostics when starting up.

#### [Changes]

None

#### [Bug Fixes]

- 1. Fixed the issue where there is no prompt when the device starts with only one power supply.
- 2. Fixed the issue where the DP connectors are not recognized occasionally.
- 3. Fixed the issue where the EDID file upload to DP connectors fails.
- 4. Fixed the issue where the synchronization time is too long when the SDI output connector synchronizes with another connector whose frame rate is greatly different from the frame rate of the SDI output connector.
- 5. Fixed the issue where the user interface of the card diagnostics is incomplete when swiping with two fingers on the LCD screen.

#### [Improvements]

None

#### [Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

#### [Components]

Q8 mainframe version V1.1.0

1. Input card versions:

Q\_Input Resource Card

V1.0.0.15.STD

- Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.15.STD
- 2. Output card versions:

Q\_Output Resource Card

V1.0.0.15.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.15.STD

[Q8 Mainframe] Q8 V1.0.2

[Supporting Software] PixelFlow V1.0.2

[Matching Controller] U5 V1.0.2

[New Features]

1. Added an indication for any abnormal fan card connections on the fan user interface of the LCD screen.

[Changes]



#### None

#### [Bug Fixes]

- 1. Fixed the issue of the linkage between Genlock and connector copying function.
- 2. Fixed the issue of occasional crash of the LCD program.
- 3. Fixed the issue of occasional crash of the SDK program.
- 4. Fixed the cp parameter configuration error of CXP backplane.
- 5. Fixed the issue where the table header displayed on the LCD screen can be dragged by touch.

#### [Improvements]

None

#### [Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

#### [Components]

Q8 mainframe version V1.0.2

1. Input card versions:

Q\_Input Resource Card

V1.0.0.13.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.13.STD

2. Output card versions:

Q\_Output Resource Card

V1.0.0.13.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.13.STD

[Q8 Mainframe] Q8 V1.0.1

[Supporting Software] PixelFlow V1.0.1

[Matching Controller] U5 V1.0.1

[New Features]

- 1. Card update is available on the Update user interface.
- 2. Compatible with the new CXP hardware.
- 3. YUV420 is supported on output connectors.

#### [Changes]

None

#### [Bug Fixes]

- 1. Fixed the compatibility issue between DP connectors and GTX3080 graphics cards.
- 2. Fixed the issue where the edge effects on portrait skin under the default parameters of chroma key are abnormal.
  - 3. Fixed certain display problems of the Q8 LCD screen.
- 4. Fixed the issue of abnormal linkage between the SDI connector and the connector positioning function.



- 5. Fixed the issue of HDCP status reporting of DP connectors.
- 6. Fixed the issue of reversed left-right output on the optical port.
- 7. Fixed the communication-related crash issues.

None

[Notes]

1. When updating the product firmware, make sure to update the card program at the same

#### [Components]

Q8 mainframe version V1.0.1

1. Input card versions:

Q\_Input Resource Card

V1.0.0.13.STD

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.13.STD

2. Output card versions:

Q\_Output Resource Card

V1.0.0.13.STD

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.13.STD

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[Q8 Mainframe] Q8 V1.0.0

[Supporting Software] PixelFlow V1.0.0

[Matching Controller] U5 V1.0.0

[New Features]

None

[Changes]

None

[Bug Fixes]

- 1. Fixed the issue where the output effect is incorrect after the T-bar is pushed halfway and then pushed back.
- 2. Fixed the issue where the Q8 device name on the LCD does not change synchronously after the name is changed in PixelFlow.
- 3. Fixed the issue where some test patterns are displayed abnormally on the screens created by the SDI output connectors.
- 4. Fixed the issue where the layer will not be displayed on the screens created by the SDI output connectors if the layer is not enlarged to full screen.

[Improvements]

None

[Notes]

1. When updating the product firmware, make sure to update the card program at the same time.



[Components]

Q8 mainframe version V1.0.0

1. Input card versions:

Q\_Input Resource Card V1.0.0.10

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.10

2. Output card versions:

Q\_Output Resource Card V1.0.0.10

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.10

[Q8 Mainframe] Q8 V1.0.0.T2

[Supporting Software] PixelFlow V1.0.0.T2

[Matching Controller] U5 V1.0.0.T2

[Notes]

1. When updating the product firmware, make sure to update the card program at the same time.

[Components]

Q8 mainframe version V1.0.0.T2

1. Input card versions:

Q\_Input Resource Card V1.0.0.9

Q\_4xHDMI2.0+4xDP1.2+4x12G-SDI Input Card V1.0.0.9

2. Output card versions:

Q\_Output Resource Card V1.0.0.9

Q\_4xHDMI 2.0+4x12G-SDI Fiber Output Card V1.0.0.9



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