

P80
V1.2.1
2026-06-15



Release Notes

1 V1.2.1

1.1 Supporting Software

PixelFlow V2.0.0

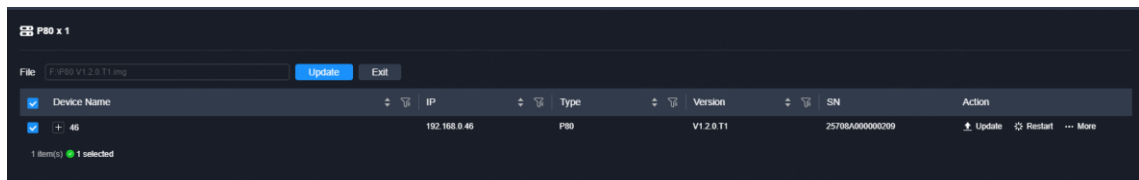
1.2 Supporting Event Controllers

U5 V2.0.0

U5 Pro V2.0.0

1.3 Update Instructions

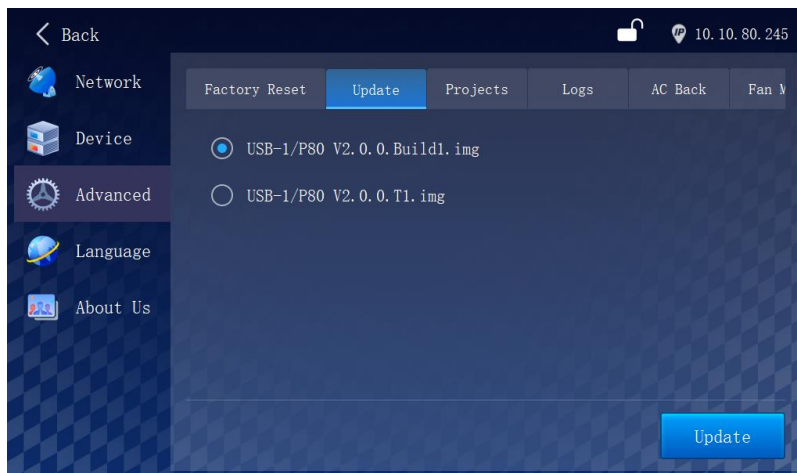
1.3.1 Online Update



1.3.2 Local Update

The P80 can be updated via USB drive. To update P80 via USB drive, save the update file (.img) to the root directory of the USB drive and then insert the USB drive into the USB port on the control card or the front panel of the P80.

On the **Advanced** screen, tap **Update** to access the device update screen, where the system will automatically detect and read the update file from the USB drive.



Tap to select the update file, tap **Update**, and the update will be completed automatically. The P80 automatically restarts during the update.

1.4 New Features

None

1.5 Improvements

None

1.6 Bug Fixes

- Fixed the issue of poor edge sharpening for text and lines after scaling in certain scenarios.
- Fixed the issue where the USB drive inserted in the front panel was not displayed on the main interface.
- Fixed the compatibility issue that the SDI input connectors did not recognize specific 1080i sources.

1.7 Notes

- Currently, the link card is not hot swappable. After hot swapping, the device must be restarted.
- Switching the output connector mode (Copy/Split) will automatically remove the connectors previously added to the screen.
- Output connectors in split mode cannot be selected for SDI matrix.
- If a source selected for SDI matrix does not meet SDI standards, it cannot be output.
- The Type-C port is reserved for upcoming features and currently does not support file import and export.
- Connectors in split mode and copy mode cannot be used to configure the same screen.
- The input sources do not support resolutions with a pixel width that is not a multiple of 4.

- P80 V1.2.1 requires PixelFlow V2.0.0. Earlier versions of PixelFlow cannot control the P80.
- Before using a Q8 input card, ensure the P80 hardware is at the required version or later.
- To downgrade the P80 to V1.0.1 or earlier, the input card of Q8 must be removed.
- In V1.2.0 and later, PGM source layers do not support KeyFrame.
- In V1.2.0 and later, off-screen layers do not support KeyFrame.
- A Q8 input card installed in the input card slot 3 of the P80 cannot be updated independently. It must be updated with the motherboard.

1.8 Components

- Input card version:
P_2xHDMI2.0+2xHDMI2.0/DP1.2+2x12G-SDI Input Card V1.0.0.18.STD
P_2xHDMI2.0+2xHDMI2.0/DP1.2+2xLink Input Card V1.0.0.18.STD
- Output card version:
P_8xHDMI2.0+8xFiber Output Card V1.0.0.18.STD
- Flex output card version:
P_4xHDMI2.0+4x12G SDI Flex Output Card V1.0.0.18.STD
- Motherboard version:
Motherboard: V1.0.0.18.STD

2 Previous Versions

2.1 V1.2.0

2.1.1 Supporting Software

PixelFlow V2.0.0

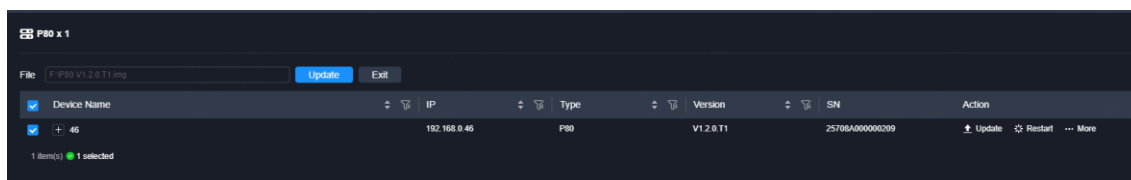
2.1.2 Supporting Event Controllers

U5 V2.0.0

U5 Pro V2.0.0

2.1.3 Update Instructions

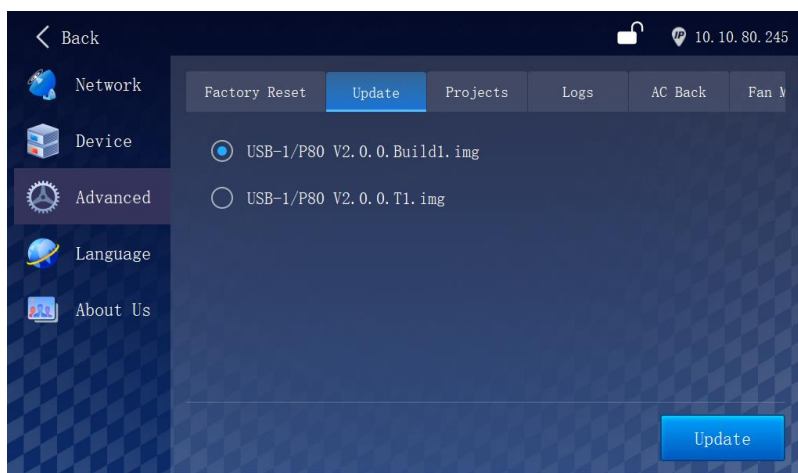
2.1.3.1 Online Update



2.1.3.2 Local Update

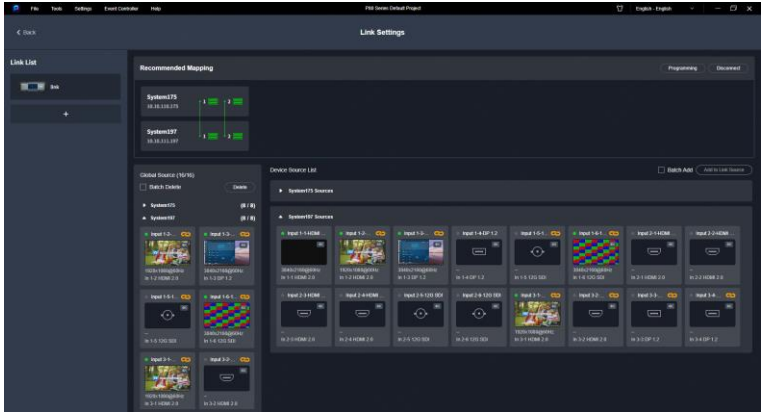
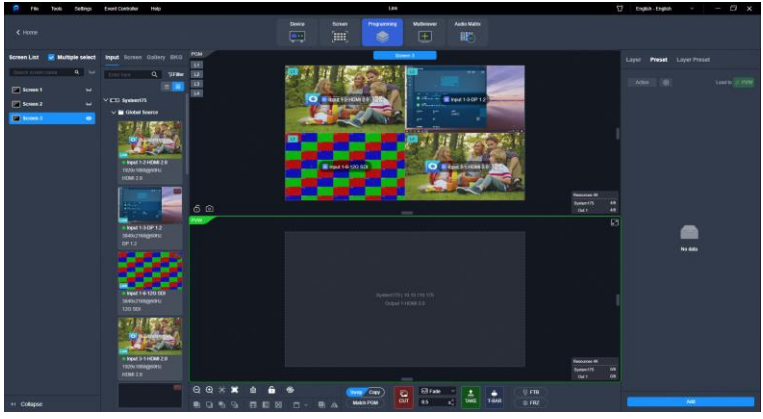
The P80 can be updated via USB drive. To update P80 via USB drive, save the update file (.img) to the root directory of the USB drive and then insert the USB drive into the USB port on the control card or the front panel of the P80.

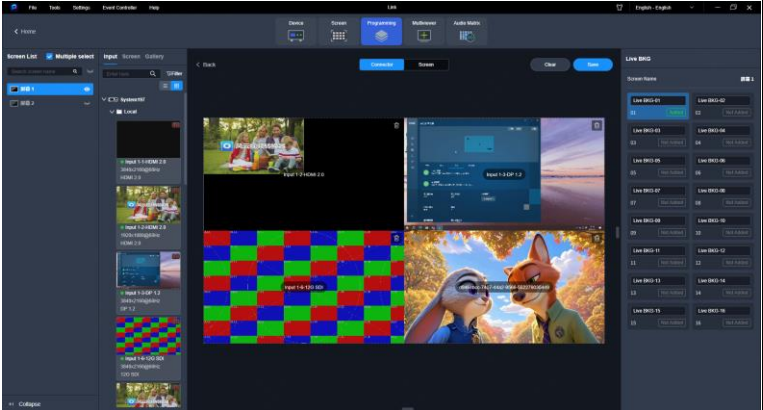
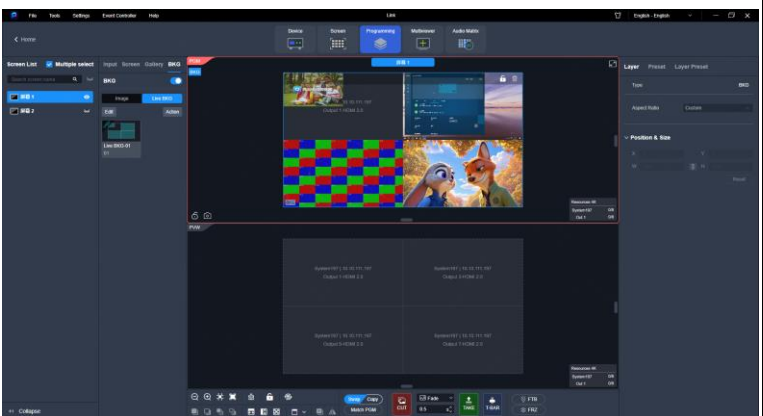
On the **Advanced** screen, tap **Update** to access the device update screen, where the system will automatically detect and read the update file from the USB drive.

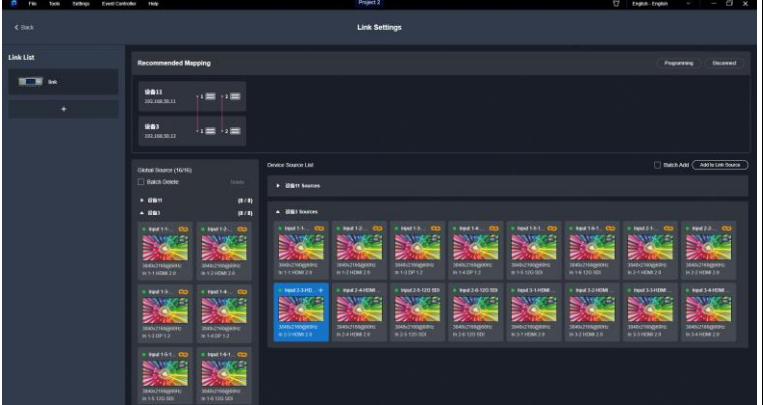
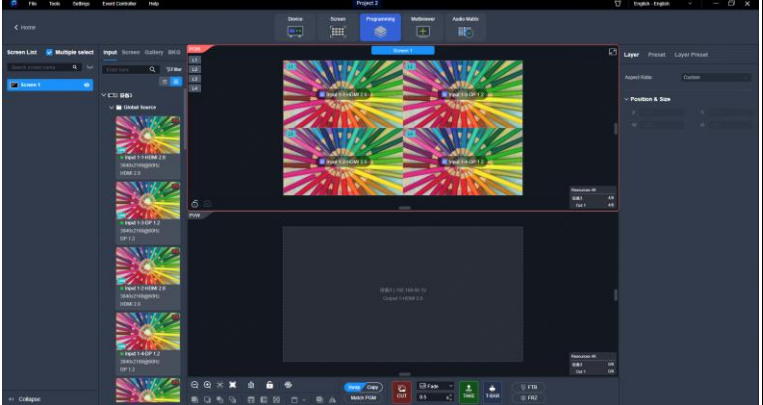


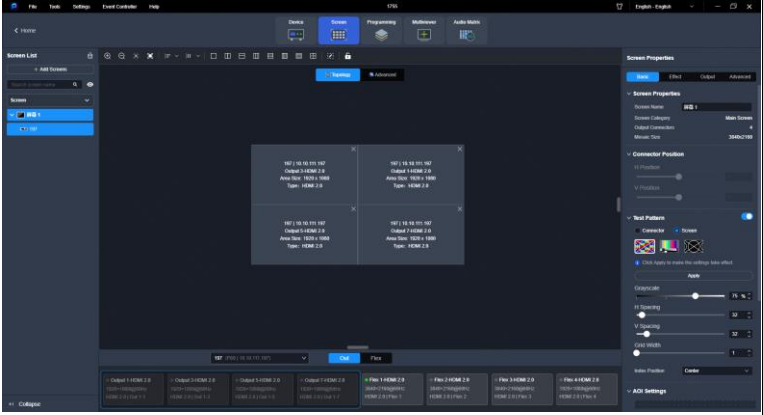
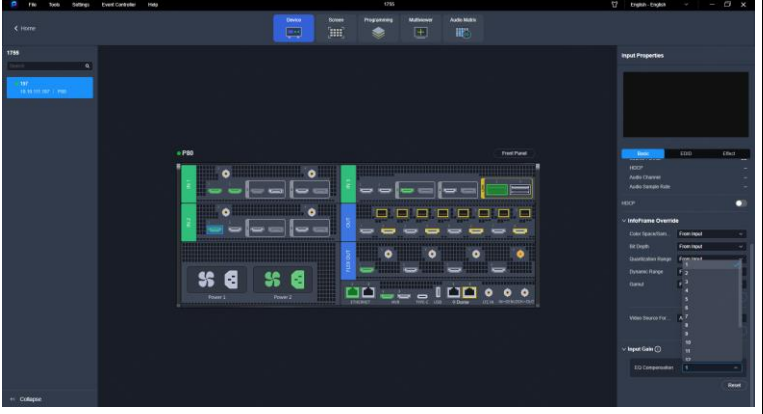
Tap to select the update file, tap Update, and the update will be completed automatically. The P80 automatically restarts during the update.

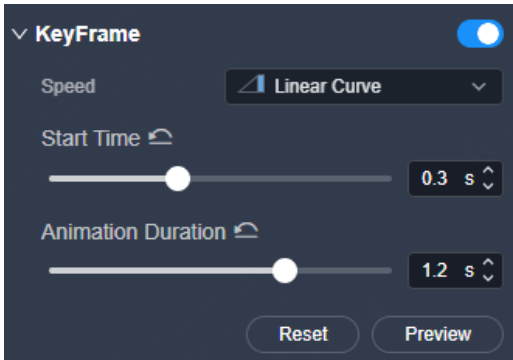
2.1.4 New Features

No.	Feature	Purpose	Description
1	Link	Links two devices to share input sources, enabling centralized device management and improving control efficiency.	- Allows two devices on the same local area network to be directly linked. - Provides recommended link mapping to guide device connection. - Enables input source sharing via the link ports, with each port supporting bidirectional sharing. 
2	Link source	Users can create shared sources based on the link feature to use the input sources of two devices.	- Input sources can be shared across devices in a link group. - Each shared source is clearly labeled with the "Link" mark, the source device, source name, and whether the signal is available. - Displays the status of each shared source in the input source list. Allows users to create layers using the shared sources. 

No.	Feature	Purpose	Description
3	Live BKG	Any live input signal (HDMI, SDI, or IP) can be used as the background. This enables real-time display of dynamic videos from media players or PCs, enriching the display effect and eliminating the need to preload content files.	- Supports creating up to 16 live BKGs using the input sources, images, and screen sources. - Supports creating live BKGs in connector or screen mode. - Live BKGs are used in the same way as common BKGs.  
5	Time display on LCD panel	The LCD panel can display current time for easy use.	The LCD panel can display current time. 

No.	Feature	Purpose	Description
6	Link function for simulation devices	The link function is available for simulation devices.	Supports creating link relationships between devices in a simulation project.  
7	Input view	Displays the input view of multiple devices to deliver smooth user experience in large events.	- Allows users to set the input view switch for devices within the same project. - When a project has excess devices, the input view switch is automatically turned off to ensure user experience. 

No.	Feature	Purpose	Description
8	HDR peak brightness for input sources	Displays HDR peak brightness of input sources.	Supports displaying HDR peak brightness. 
9	Screen test pattern	A full screen can be used as the test pattern to meet the requirements of large events.	Supports setting different types of screen test patterns and fine-tuning the layout of the test pattern. 
11	Input gain adjustment	Allows users to adjust the input gain to stabilize HDMI signals.	Allows users to adjust the input gain in developer mode. 
12	KeyFrame	Delivers smooth motions and animation effects during layer transitions.	KeyFrame can be applied to layers. Users can set layer positions and transition effects.

No.	Feature	Purpose	Description
			

2.1.5 Improvements

- Added the 5:4 aspect ratio for layers.
- Optimized the UMD font library to apply the new font.
- Optimized the HDCP handling policy for better compliance with HDCP specifications.
- Added support for the Q8_8xHDMI2.0+12G-SDI Input Card.
- Improved T-Bar operation smoothness for more fluid transitions.
- Optimized preset loading speed.

2.1.6 Bug Fixes

None

2.1.7 Notes

- Currently, the link card is not hot swappable. After hot swapping, the device must be restarted.
- Switching the output connector mode (Copy/Split) will automatically remove the connectors previously added to the screen.
- Output connectors in split mode cannot be selected for SDI matrix.
- If a source selected for SDI matrix does not meet SDI standards, it cannot be output.
- The Type-C port is reserved for upcoming features and currently does not support file import and export.
- Connectors in split mode and copy mode cannot be used to configure the same screen.
- The input sources do not support resolutions with a pixel width that is not a multiple of 4.

- P80 V1.2.0 must work with PixelFlow V2.0.0 and earlier versions of PixelFlow cannot be used to control the P80.
- Before using a Q8 input card, ensure that the P80 version is at or later than the hardware version supported by the card.
- To downgrade the P80 to V1.0.1 or earlier, the input card of Q8 must be removed.
- In V1.2.0, KeyFrame is not supported for PGM source layers.
- In V1.2.0, KeyFrame is not supported for off-screen layers.
- When a Q8 input card is inserted into input card slot 3, slot 3 does not support separate upgrade of this card. It must be upgraded with the motherboard.

2.1.8 Components

- Input card version:
P_2xHDMI2.0_2xHDMI2.0/DP1.2_2x12G-SDI Input Card V1.0.0.14.STD
P_2xHDMI2.0_2xHDMI2.0/DP1.2_2xLink Input Card V1.0.0.14.STD
- Output card version:
P_8xHDMI2.0+8xFiber Output Card V1.0.0.14.STD
- Flex output card version:
P_4xHDMI2.0+4x12G SDI Flex Output Card V1.0.0.14.STD

2.2 V1.1.2

2.2.1 Supporting Software

PixelFlow V1.8.0

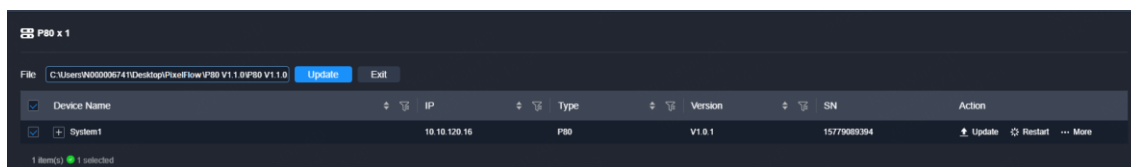
2.2.2 Supporting Event Controllers

U5 V1.8.0

U5 Pro V1.8.0

2.2.3 Update Instructions

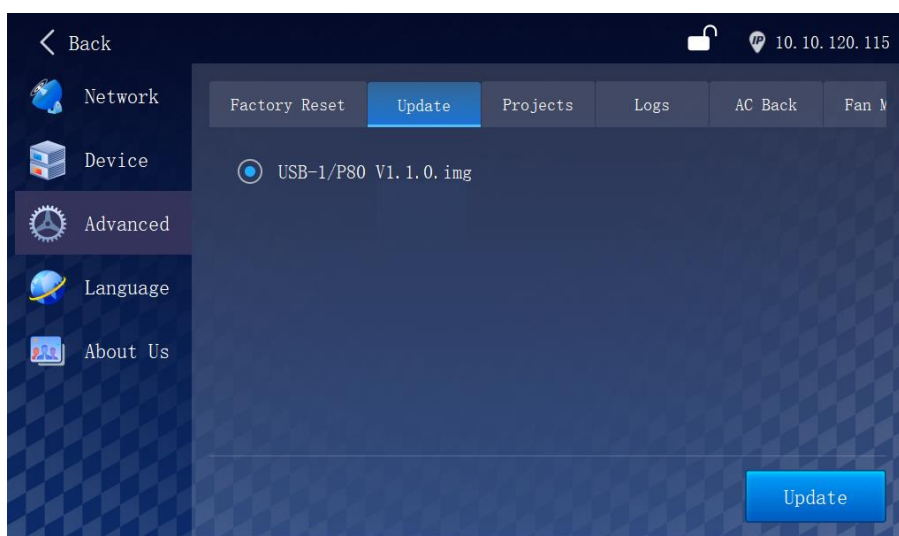
2.2.3.1 Online Update



2.2.3.2 Local Update

The P80 can be updated via USB drive. To update P80 via USB drive, save the update file (with an .img extension) in the root directory of the USB drive and then insert the USB drive into the USB port on the control card or the front panel of the P80.

On the **Advanced** screen, tap **Update** to access the device update screen, where the system will automatically detect and read the update file from the USB drive.



Tap to select the update file, tap **Update**, and the update will be completed automatically. The P80 automatically restarts during the update.

2.2.4 New Features

None

2.2.5 Improvements

None

2.2.6 Bug Fixes

- Basic information (such as the IP address) for Dante connectors is not displayed.
- DP connectors on the Q8_HDMI2.0+DP1.2+12G-SDI Input Card cannot be recognized after a power cycle.
- After the LCD screen enters the screen saver mode, the main menu cannot be accessed with a single tap. Users have to swipe up to access the menu.

2.2.7 Notes

- Currently, the link card is not hot swappable. After hot swapping, the device must be restarted.
- Switching the output connector mode (Copy/Split) will automatically remove the connectors previously added to the screen.
- If a source selected for SDI matrix does not meet SDI standards, it cannot be output.
- The Type-C port is reserved for upcoming features and currently does not support file import and export.
- Connectors in split mode and copy mode cannot be used to configure the same screen simultaneously.
- The input sources do not support resolutions with a pixel width that is not a multiple of 4.
- P80 V1.1.1 must work with PixelFlow V1.8.0 and earlier versions of PixelFlow cannot be used to control the P80.
- To use the input card of Q8, ensure that the P80 is V1.1.1 or later.
- To downgrade the P80 to V1.0.1 or earlier, the input card of Q8 must be removed.

2.2.8 Components

- Input card version:
P_2xHDMI2.0_2xHDMI2.0/DP1.2_2x12G-SDI Input Card V1.0.0.12.STD
P_2xHDMI2.0_2xHDMI2.0/DP1.2_2xLink Input Card V1.0.0.12.STD
- Output card version:

P_8xHDMI2.0+8xFiber Output Card V1.0.0.12.STD

- Flex output card version:

P_4xHDMI2.0+4x12G SDI Flex Output Card V1.0.0.12.STD

2.3 V1.1.1

2.3.1 Supporting Software

PixelFlow V1.8.0

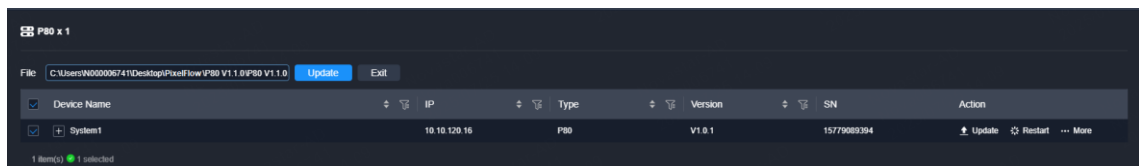
2.3.2 Supporting Event Controllers

U5 V1.8.0

U5 Pro V1.8.0

2.3.3 Update Instructions

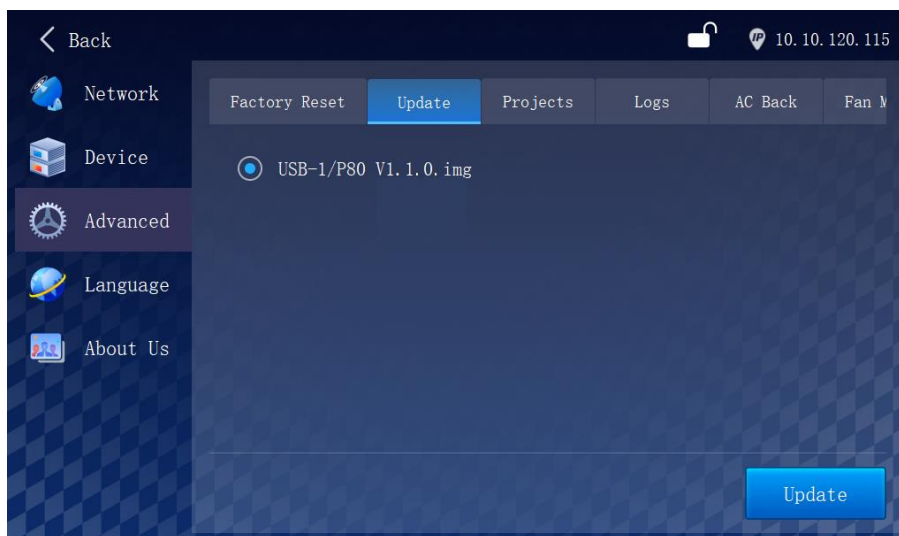
2.3.3.1 Online Update



2.3.3.2 Local Update

The P80 can be updated via USB drive. To update P80 via USB drive, save the update file (with an .img extension) in the root directory of the USB drive and then insert the USB drive into the USB port on the control card or the front panel of the P80.

On the **Advanced** screen, tap **Update** to access the device update screen, where the system will automatically detect and read the update file from the USB drive.



Tap to select the update file, tap **Update**, and the update will be completed automatically. The P80 automatically restarts during the update.

2.3.4 New Features

No.	Feature	Purpose	Description
1	Support for the input card of Q8	Support for the input card of Q8 offers a greater quantity and variety of input connectors.	- The Q8_HDMI2.0+DP1.2+12G-SDI Input Card can be plugged into the card slot IN3. - The HDMI and DP connectors are available.
2	Flex output upgrade	Enhance the Flex output and layer capabilities to meet more application requirements.	- Flex outputs can be configured as single screens or edge-blended wide screens. - Flex layers support cross-connector roaming and multiple layers are supported.
3	Audio	Offer complete audio inputs and outputs.	- Users can configure audio routing via Dante audio matrix. - The local audio of P80 can be transmitted into the Dante network as audio sources, including either embedded audio or independent audio, enabling local audio to be routed to the network through Dante. - Audio sources within the Dante network can be transmitted through the physical audio output, including both embedded audio and independent audio output, enabling network audio to be transformed into local audio through Dante.
4	Gamma	Add an image quality adjustment option.	The input, output and screen support Gamma adjustment.

No.	Feature	Purpose	Description
5	Multiviewer upgrade	Enhance the user-friendliness of the Multiviewer feature.	- Up to 8 custom layout templates can be added. - Users can freely customize the layout of the template, grid content and grid spacing. - Users can customize UMD information settings including the position, size, font color, border and border color, and choose whether to display UMD information. - Users can customize the background color of Multiviewer.
6	Display effect synchronization	Meet various usage demands.	Support the preference settings for displaying output effect in Multiviewer and SDI matrix. - When enabled, the Multiviewer/SDI matrix will display the output effect, including the image quality, test pattern, FTB, and freeze, assisting operators in monitoring image recovery in real-time. - When disabled, output effect will not be displayed in the Multiviewer/SDI matrix.
7	Readback of the content imported from the EDID file	Enhance the user-friendliness of the feature.	When users import and use an EDID file, the EDID parameters can be read into the preset, custom and advanced parameters.
8	Other	Issue and functionality refinements	- During input, output and screen parameter adjustments, YUV and DCI-P3 are mutually exclusive. - During input source EDID and output timing settings, the default synchronization polarity is positive.

2.3.5 Improvements

- When the cut layer source is a BMP or PNG image, the image transparency can be adjusted.
- More frame rates, such as 50Hz, of the standard resolutions like CVT, CEA and DMT are supported.

2.3.6 Bug Fixes

None

2.3.7 Notes

- Currently, the link card is not hot swappable. After hot swapping, the device must be restarted.
- Switching the output connector mode (Copy/Split) will automatically remove the connectors previously added to the screen.
- If a source selected for SDI matrix does not meet SDI standards, it cannot be output.
- The Type-C port is reserved for upcoming features and currently does not support file import and export.
- Connectors in split mode and copy mode cannot be used to configure the same screen simultaneously.
- The input sources do not support resolutions with a pixel width that is not a multiple of 4.
- P80 V1.1.1 must work with PixelFlow V1.8.0 and earlier versions of PixelFlow cannot be used to control the P80.
- To use the input card of Q8, ensure that the P80 is V1.1.1 or later.
- To downgrade the P80 to V1.0.1 or earlier, the input card of Q8 must be removed.

2.3.8 Components

- Input card version:
P_2xHDMI2.0_2xHDMI2.0/DP1.2_2x12G-SDI Input Card V1.0.0.11.STD
P_2xHDMI2.0_2xHDMI2.0/DP1.2_2xLink Input Card V1.0.0.11.STD
- Output card version:
P_8xHDMI2.0+8xOPT Output Card V1.0.0.11.STD
- Flex output card version:
P_4xHDMI2.0+4x12G SDI Flex Output Card V1.0.0.11.STD

2.4 V1.0.1

2.4.1 Supporting Software

PixelFlow V1.7.1

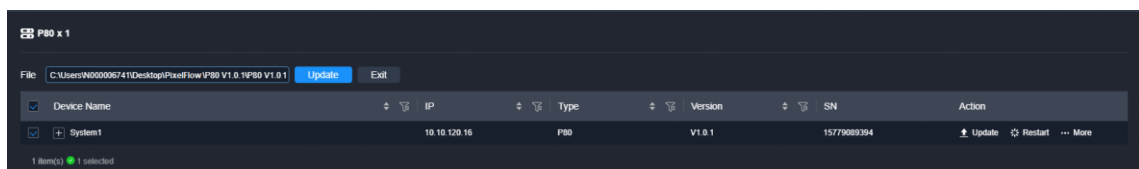
2.4.2 Supporting Event Controllers

U5 V1.7.1

U5 Pro V1.7.1

2.4.3 Update Instructions

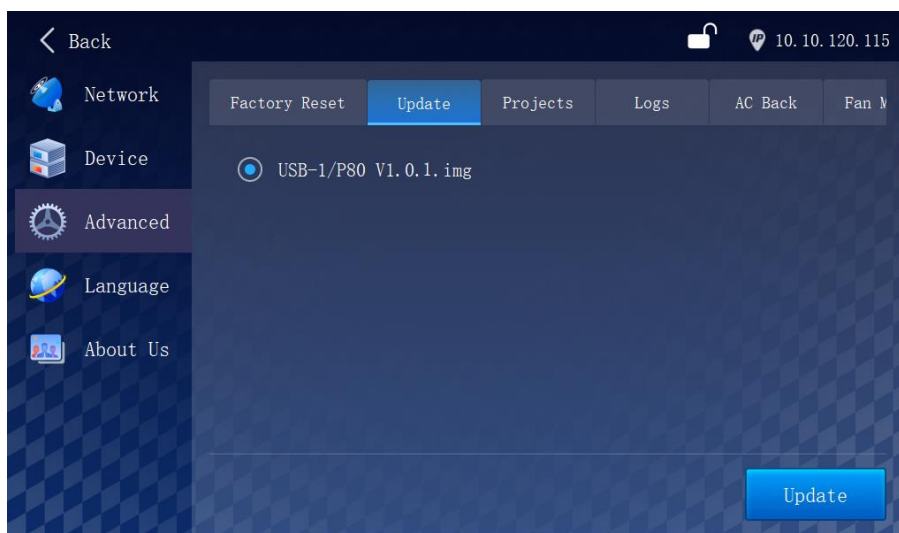
2.4.3.1 Online Update



2.4.3.2 Local Update

The P80 can be updated via USB drive. To update P80 via USB drive, save the update file (with an .img extension) in the root directory of the USB drive and then insert the USB drive into the USB port on the control card or the front panel of the P80.

On the **Advanced** screen, tap **Update** to access the device update screen, where the system will automatically detect and read the update file from the USB drive.



Tap to select the update file, tap **Update**, and the update will be completed automatically.

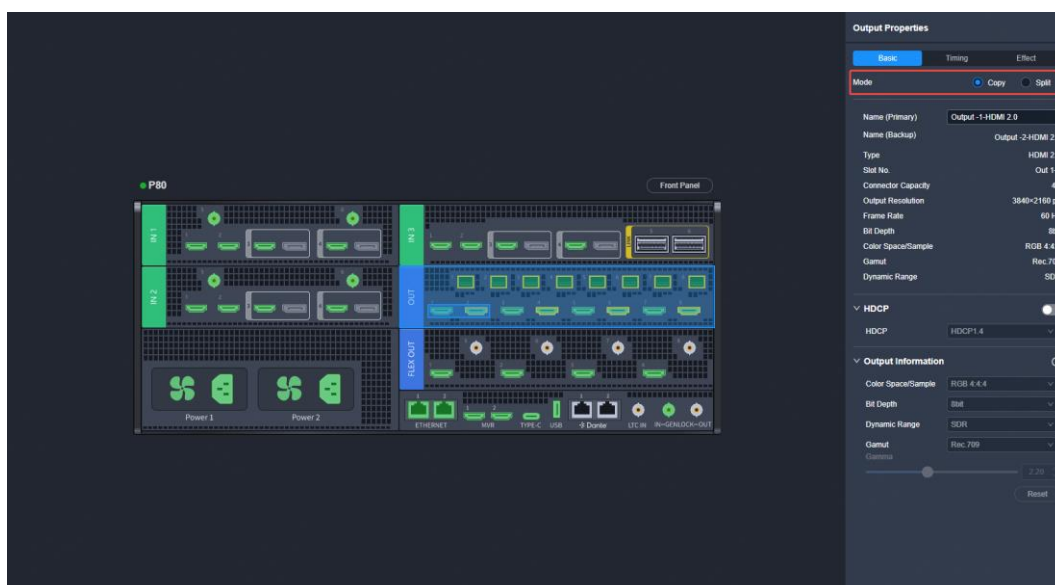
The P80 automatically restarts during the update.

2.4.4 Features

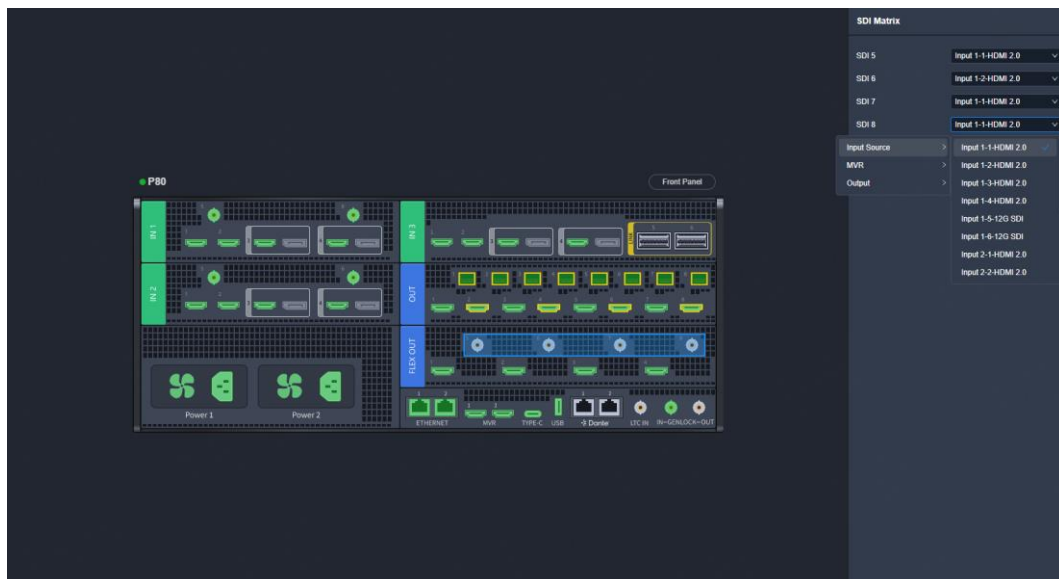
- Supports 24 input connectors allowing for up to 16x concurrent 4K inputs.



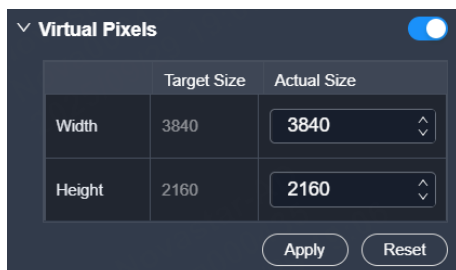
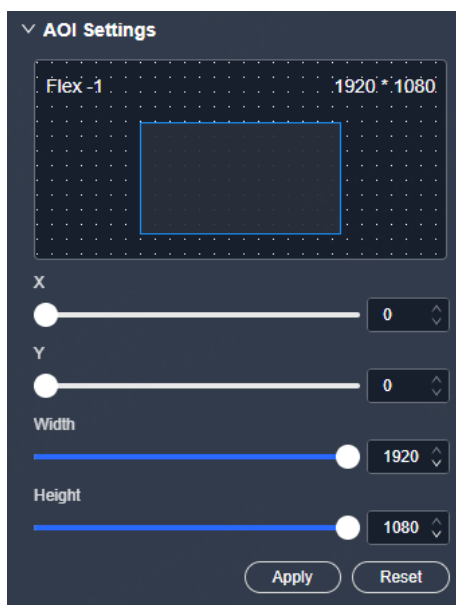
- The output connectors support split mode and copy mode.



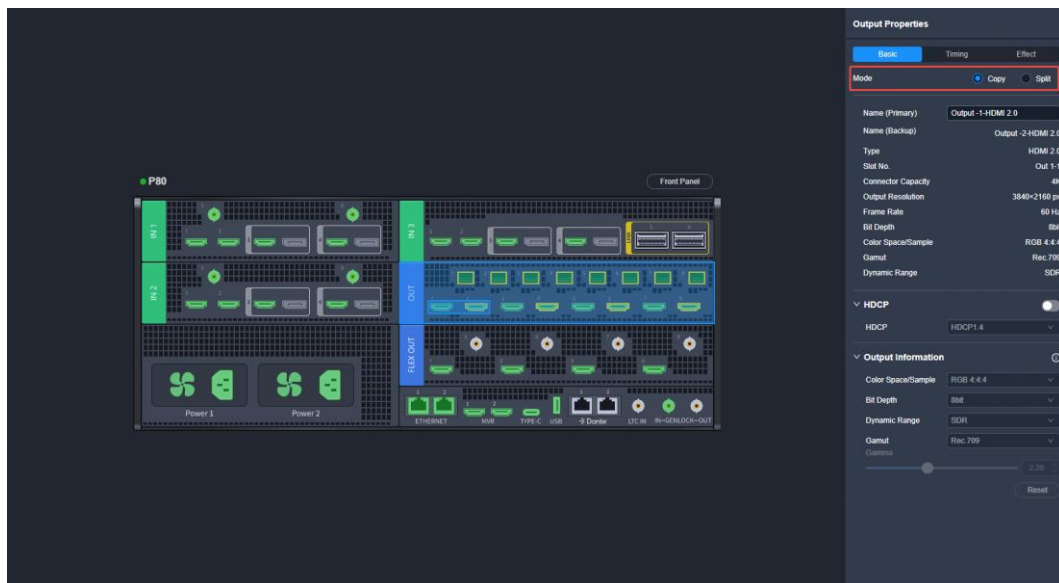
- Supports 4x 4K outputs or 8x DL outputs (DL output requires output split mode but still on the same canvas).
- SDI interface matrix for mapping any content from the entire system to the output, including any input sources, MVR, PGM and Flex outputs.



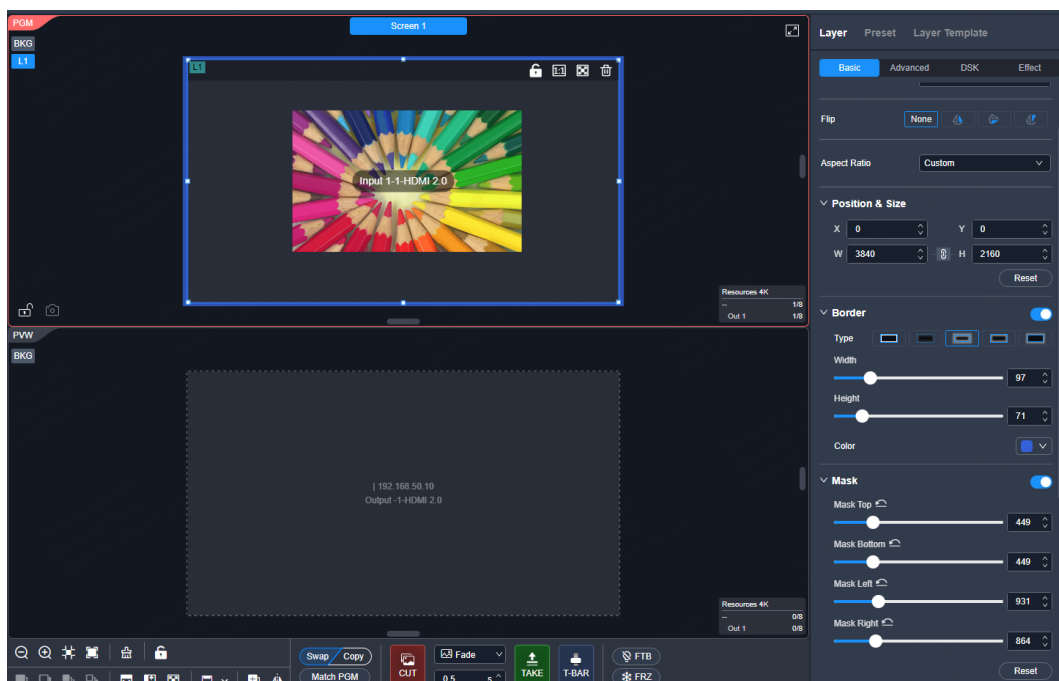
- Flex outputs with support for all functions of the common screens, such as AOI, virtual pixels, etc. The layer functionality is equivalent to that of the PIP layer.

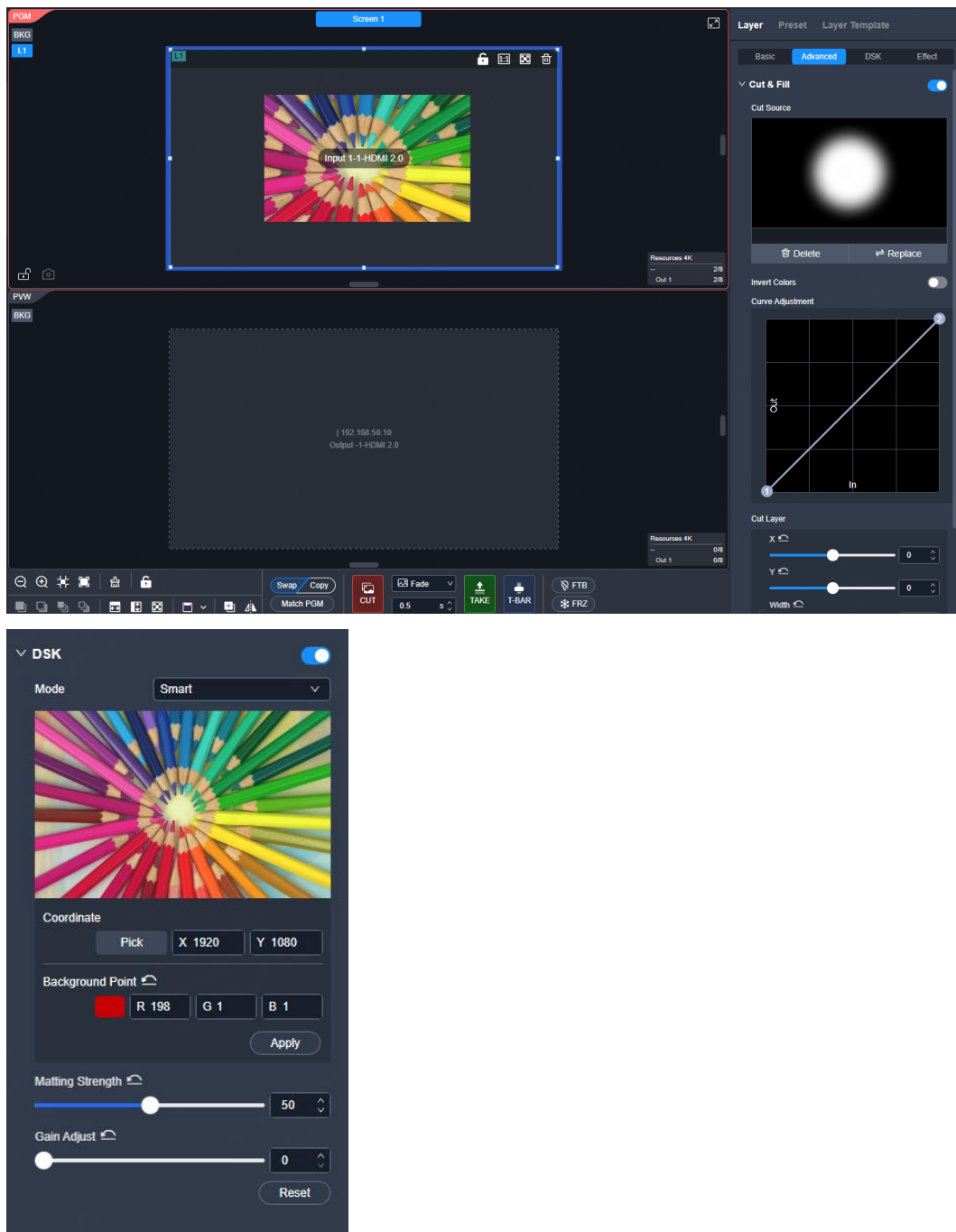


- Supports multiple copying outputs: HDMI, OPT, SDI



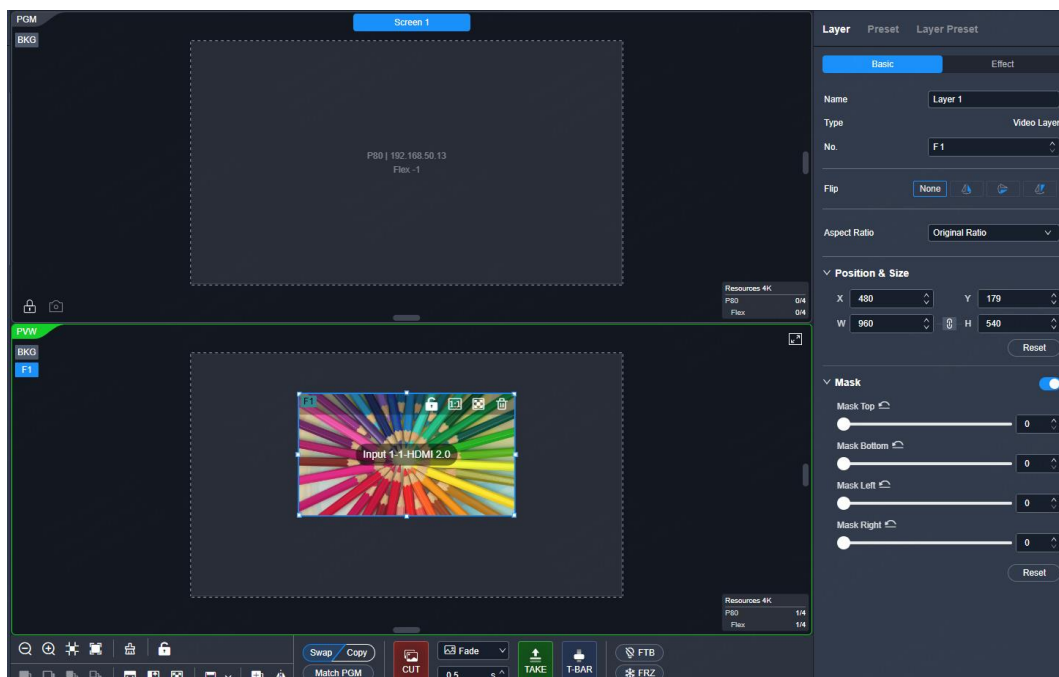
- Supports 8x 4K mixing layers. Layer roaming does not reduce the layer resources. Each screen supports one still BKG and each layer supports the basic layer effects and all advanced layer effects including DSK, border, shadow, cut & fill, opacity, etc.

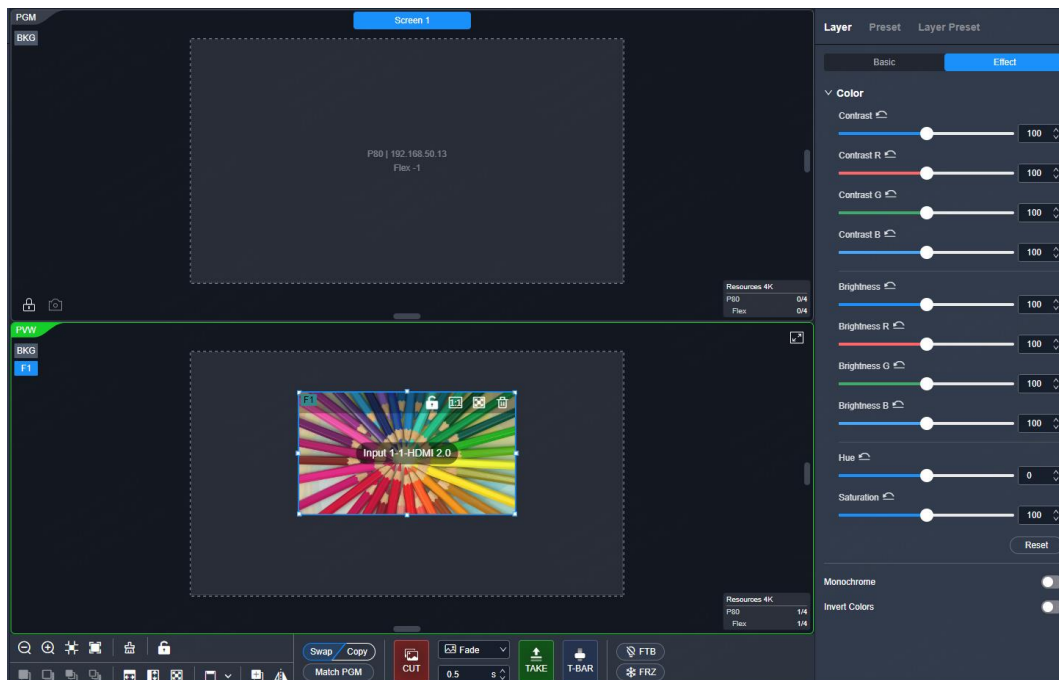




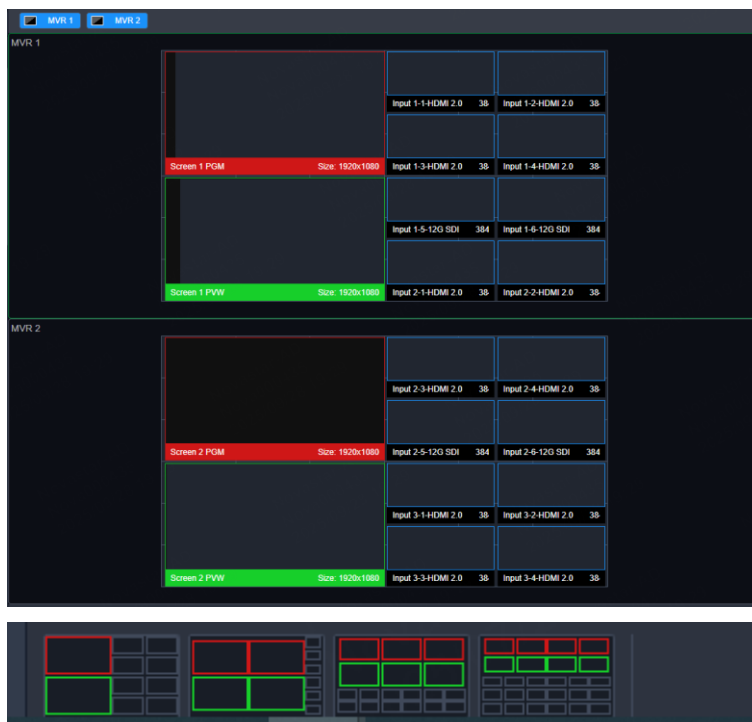


- Supports 4x 4K mixing flex layers, each supporting the MQ1.5 6-level scaling algorithm, still image layers, position adjustment, mask, image quality adjustment, source crop, and other basic layer effects. The inputs, outputs and Multiviewer can be selected for flex outputs, and mixing transition effects are supported.

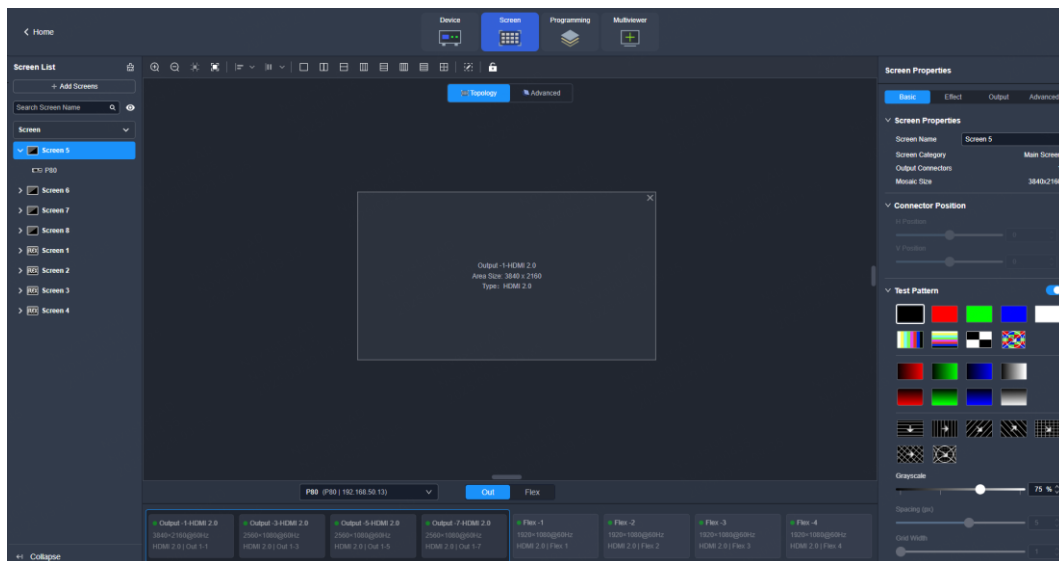




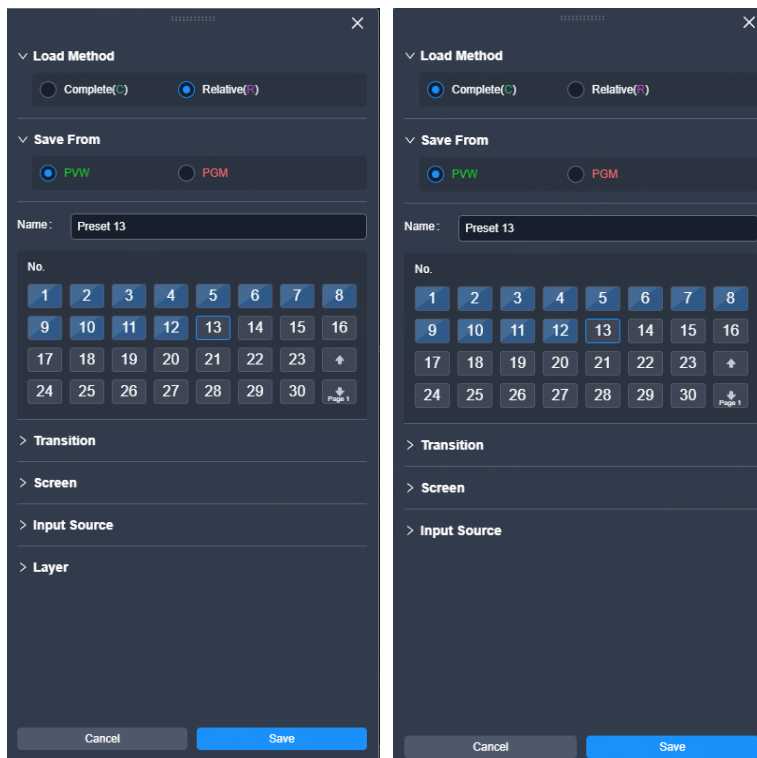
- Supports 2x HDMI 2.0 for Multiviewer, allowing for 1x 4K Multiviewer or 2x DL Multiviewers. Custom Multiviewer layout and flex output signal monitoring are supported.



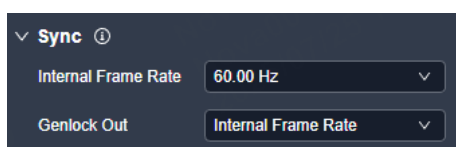
- Supports 8x screens (common screens and flex screens) with support for edge blending, virtual pixels, AOI, LCD bezel compensation, test pattern, 3D, etc.



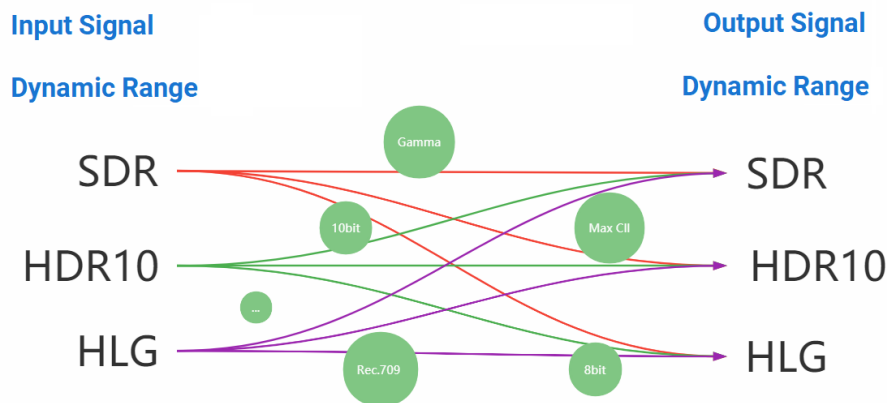
- Supports 256 presets including relative and complete presets.



- Can be controlled using the U5/U5 Pro event controller along with the PixelFlow software.
- Easier LCD operations: home screen, basic configuration, preset & transition
- Supports output of the internal Genlock signal or Genlock in.

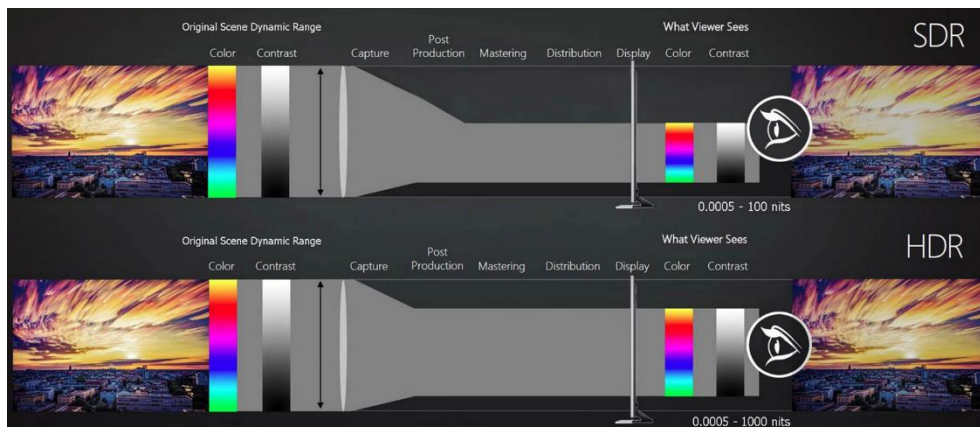


- Supports dynamic range conversion.

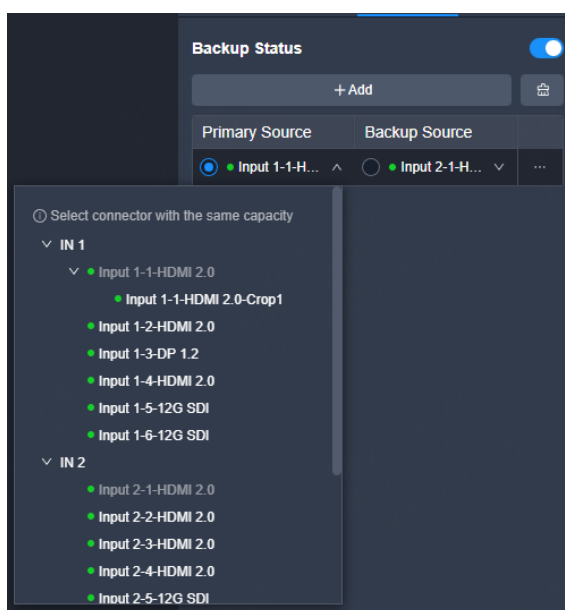


What does HDR offer?

Compared to SDR, HDR boasts a higher dynamic range, a wider color gamut, and greater source bit depth, enabling perfect rendering of details in both bright and dark areas. This results in superior image quality, richer colors, and more vibrant and lifelike visuals.

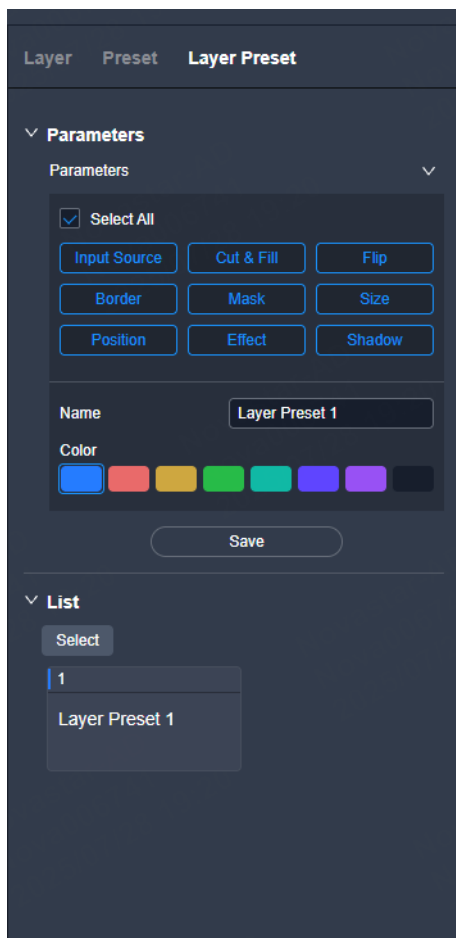


- Supports various backup methods: input source backup, output backup, device backup, and controlling device backup

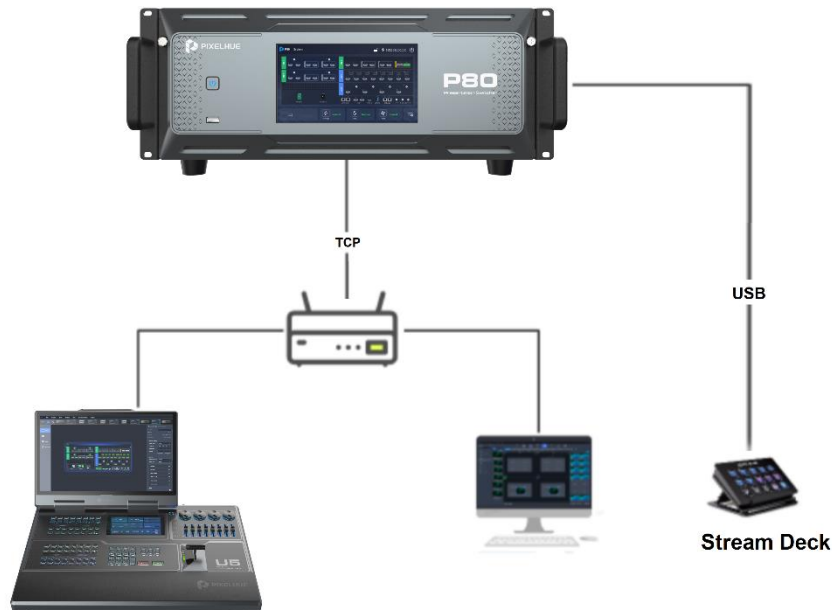




- Supports layer presets allowing the desired layer properties to be saved as a preset which can be quickly applied to other layers.



- Supports multiple control options: PixelFlow, front panel LCD, Stream Deck



- Multiple P80 units can be controlled simultaneously from a single controlling device, allowing for simultaneous screen control, preset loading, and output image synchronization when the units are used to load the same screen.



- Supports the selection of multiple reduced blanking standards. The capability for audio transmission is determined by the value of HBlank.

Reduced blanking options:

- Standard: The value of HBlank is displayed, which is calculated according to the current resolution and cannot be adjusted.
- CVT-RBv1: The value of HBlank is displayed, which is fixed at 160 and cannot be adjusted.
- CVT-RBv2: The value of HBlank is displayed, which is fixed at 80 and cannot be adjusted.
- CVT-RBv3: The value of HBlank is displayed, which can be adjusted within a range of 80 to 200. It defaults to 80 and the adjustment increment is 8.

- Mac mosaic

- When Mac is used as the input source, image mosaic is supported.
- It is required to use the same Mac for mosaic and ensure the connector type and timing are consistent. Otherwise, the mosaic may fail.

2.4.5 Improvements

None

2.4.6 Bug Fixes

None

2.4.7 Notes

- Currently, the link card is not hot swappable. After hot swapping, the device must be restarted.
- Switching the output connector mode (copy/split) will automatically remove the connectors previously added to the screen.
- Output connectors in split mode cannot be selected for SDI matrix.
- If a source selected for SDI matrix does not meet SDI standards, it cannot be output.
- SDI matrix output does not support test patterns and FTB.
- The Type-C port is reserved for upcoming features and currently does not support file import and export.
- Connectors in split mode and copy mode cannot be used to configure the same screen simultaneously.
- Importing EDID files does not change the standard resolutions. Users can change it if needed.
- The input sources do not support resolutions with a pixel width that is not a multiple of 4.
- P80 V1.0.1 must work with PixelFlow V1.7.1 and earlier versions of PixelFlow cannot be used to control the P80.

2.4.8 Components

- Input card version:
P_2×HDMI2.0_2×HDMI2.0/DP1.2_2×12G SDI Input Card V1.0.0.7.STD
P_2×HDMI2.0_2×HDMI2.0/DP1.2_2×Link Input Card V1.0.0.7.STD
- Output card version:
P_8×HDMI2.0+8×OPT Output Card V1.0.0.7.STD
- Flex output card version:
P_4×HDMI2.0+4×12G SDI Flex Output Card V1.0.0.7.STD

3

Copyright

Copyright © 2026 Pixelhue Technology Ltd. All Rights Reserved.

No part of this document may be copied, reproduced, extracted or transmitted in any form or by any means without the prior written consent of Pixelhue Technology Ltd (hereinafter referred to as PIXELHUE).

Trademarks

 **PIXELHUE** is a trademark of Pixelhue Technology Ltd.

Brand and product names mentioned in this manual may be trademarks, registered trademarks or copyrights of their respective holders.

Statement

Thank you for choosing PIXELHUE products. This document is intended to help you understand and use the products. PIXELHUE may make improvements and/or changes to this document at any time and without prior notice. If you experience any problems in use or have any suggestions, please contact us via the contact information given in this document. We will do our best to solve any issues, as well as evaluate and implement any suggestions.

This document could contain technical inaccuracies or typographical errors. Changes are periodically made to the information in this document; these changes are incorporated in new editions of this document.

The latest edition of user manuals can be downloaded from the PIXELHUE website www.pixelhue.com.

| [Official website](http://www.pixelhue.com)
| www.pixelhue.com

| [Technical support](mailto:service@pixelhue.com)
| service@pixelhue.com