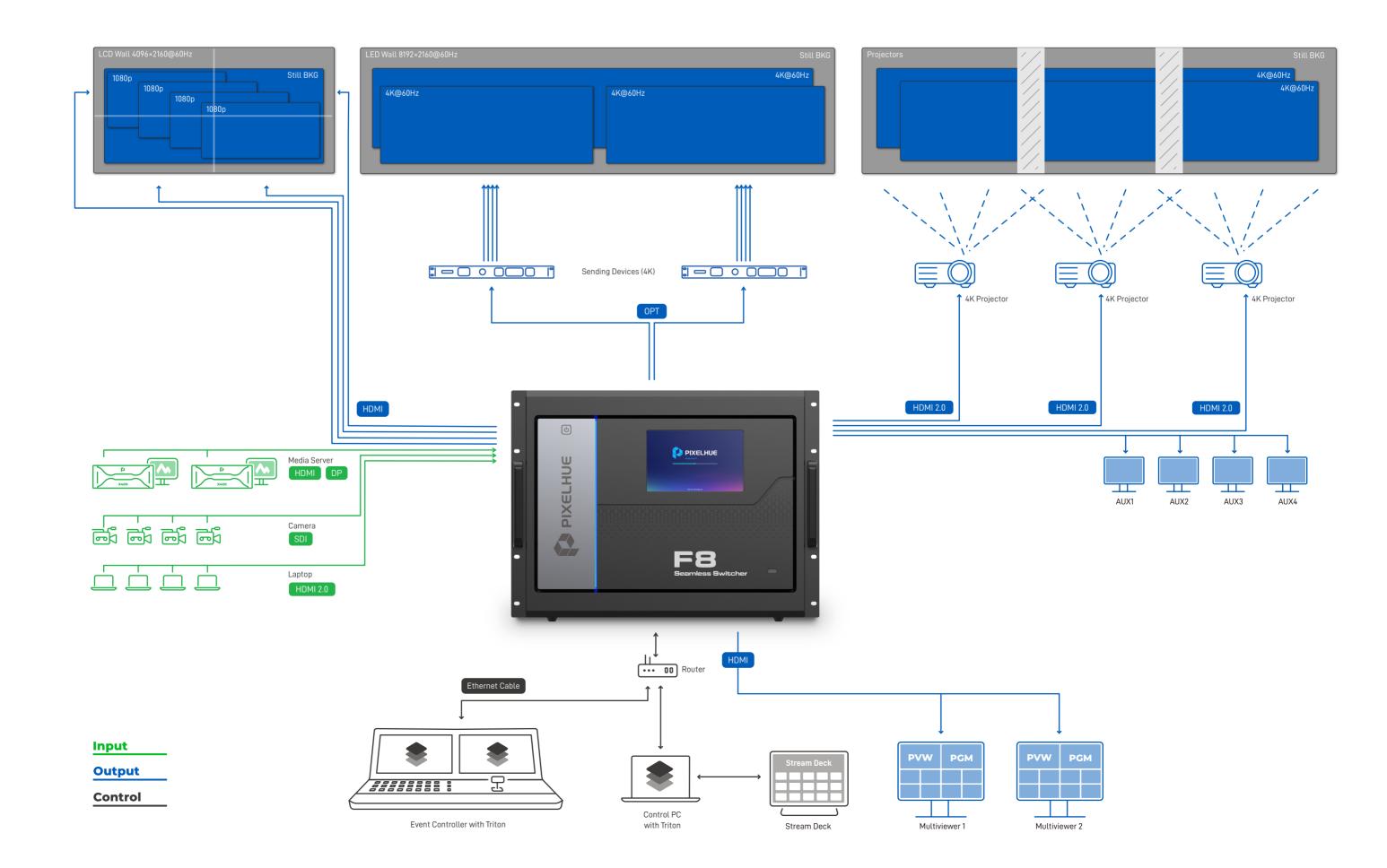


APPLICATION





FEATURES



Highest Performance

PIXELHUE's Flex-View Seamless Switchers are specifically designed for easy management of multiple displays for shows or visual management systems, suitable for use with a variety of input formats and multiple display outputs. Designed with the latest high-performance FPGA Chipset, the F series deliver reliable, stable, faster, and better image performance, and output non-compressed 4k@60Hz 4:4:4 10bits videos. Built with a focus on environmental protection, the PIXELHUE-designed foundation is a great ong-term solution, simplifying upgrades through modules

What's better, the F series feature the support for projectors and irregularly shaped displays.



Ultimate Flexibility Through Modular Design

The Flex-View Seamless Switchers are designed with up to 8 input slots and 8 output slots, allowing you to easily select $\ensuremath{\mathrm{I/0}}$ modules with different input and output connectors to match the your visual system requirements. The module design allows for easy deployment and upgrade in the field, bringing more convenience and ease your on-site

In addition, the the F series support at most 64x SL mixing layers, 32x DL mixing layers or 16x 4K mixing layers, and also support a variety of input and output connectors, including DVI, DP, HDMI, and 3G-SDI connectors, allowing for easy customization for any project or show.

Key Features

True 4K60p 4:4:4 10 bit video processing

Modular design through removable and field-swappable I/O cards, power supplies and main control card Abundant I/O cards to provide a variety of connectivity

Up to 64x SL mixing layers, 32x DL mixing layers or 16x 4K

Cross-connector layer does not occupy layer resources, full screen roaming

Flexible layer management, including mask and border, flipping, copying and mirroring

Luma key and chroma key, DSK

2x Multiviewer outputs with flexible layouts, adjustable borders and UMD



Outstanding Onsite Stability by Backup Solution

safeguard your event and make your display not go bad? PIXELHUE brings its own backup solution to make sure your event is a success. Through the signal backup, device backup and dual redundant power supplies, the job seamlessly and you will feel nothing has changed.



Total Event Control with U3

The U3 event controller has built-in an exceptional video processing software Triton, which provides the offline mode and pre-editing functionality, and helps you directly import while on-site and migrate between different devices. The easy-to-master and user-friendly graphical user interface guides you from beginning to end of any events with as little complex operation as possible. With the U3 event controller, the F series can satisfy any kind of event requirements such as stage events, or any kind of large-scale exhibitions



Reliable & Worry-Free Operation

In this rapidly evolving market, reliable technology is the key to an outstanding event. Our F series devices allow you to configure the system to accommodate a variety of connectivity arrangements and display requirements. The F series feature dual power supplies, full machine data backup to local configuration, fast restoration, and working perfectly 24/7. What's more, our products have passed a series of rigorous drop tests, shock & vibration tests and thermal tests, ensuring they can survive

Multiple F series devices controlled by a single U3 simultaneously

Multiple backup mechanisms, device diagnostics, log export and power failure alarm for super stability and reliability



Inputs

Up to 32x inputs through 8x input cards
 Standard, custom and advanced EDID settings
 Common resolutions: 1920×1080p@60Hz,
 3840×1080p@60Hz and 3840×2160p@60Hz, etc.

3. Input source deinterlacing processing 4.Input source cropping
5.Status LED indicators provided for easy troubleshooting

Outputs

 Up to 32x outputs through 8x output cards
 Standard, custom and advanced output timing settings 4. Status LED indicators provided for easy troubleshooting

Multiviewer Outputs

2. Monitor all inputs and screens (PVW and PGM)

3. Customizable layouts for easy use 4. UMD display and color adjustment

5. Multiviewer background color adjustment 6. Border adjustment for Multiviewer windows

Screens

1. Outputs configured as single screens or edge-blended widescreens

2. Bezel compensation and edge blending 3. Irregular screen mosaic and output AOI function, ideal for complex and irregular LED screen applications

4. Dedicated BNC with loop-through for Genlock to ensure a synchronized

5. Virtual pixels supported 6. Up to 128 presets

AUX

AUX connector can be in independent or mosaic use 2. AUX screen can follow the preset switching 3. Free view of inputs and screens (PGM)

Transition and Effect

6. Copy or swap display on PVW and PGM

Layers

1. Each output card supports up to $8x\ SL\ mixing\ layers$, $4x\ DL\ mixing\ layers$ or 2x

4K mixing layers

5. Layer flipping, copying and mirroring

BKG & LOGO

1. BKG can be either a captured or imported image 4. Independent BKG and LOGO for each screen 5. BKG filling the whole screen by default

Processing

2. Low latency processing 3. Compatible with HDCP 1.4 and HDCP 2.2 4. Compliant with HDR

Control

5. Bezel compensation

2. Multiple control modes via U3 event controller, control PC and Stream Deck

Others

User keys (containing layer properties such as size, position, border color, etc.) for more convenient and fast layer properties configuration

MODULAR

Inputs



Dual 4K HDMI2.0/DP1.2 Input Card 2x DP 1.2 2x HDMI 2.0

• DP 1.2: HDCP 1.3 compliant Up to 4096×2160@60Hz/8192×1080@60Hz 4:4:4

• HDMI 2.0: HDCP 2.2 and HDCP 1.4 compliant Up to 4096×2160@60Hz 4:4:4 8-bit • Only one of the HDMI 2.0 or DP 1.2 can run simultaneously with that in the other parallel group

Group 2: Connectors 3 & 4) Capacity switching between SL, DL and 4K

• EDID management for VESA, and CVT compliant

· Common resolutions

(Group 1: Connectors 1 & 2.

1920×1080p@30/48/50/59.94/60Hz 3840×1080p@30/50/59.94/60Hz

3840×2160p@30/50/59.94/60Hz

Outputs



3G-SDI Quad Output Card 4x 3G-SDI

• Downward compatible with HD-SDI and SD-SDI

• Support for ST-424 (3G), ST-292 (HD) and SMPTE259 • Under 1920×1080@50/59.94/60Hz, Level A and Level

B adjustment supported • Support for interlaced signal output

• Support for output timing settings Connector copying supported Connectors 2 and 4 are active, while connectors 1 and 3 copy the outputs on connectors 2 and 4

Common resolutions

720×480i (NTSC)@59.94Hz

720×576i (PAL)@50Hz 1280×720p@23.98/24/25/29.97/30/50/

1920×1080p@23.98/24/25/29.97/30/50/ 59.94/60Hz 1920×1080i@50/59.94/60Hz



HDMI1.3 Quad Output Card

Up to 2048×1080@60Hz 4:4:4 8-bit Max. output width: 2048 pixels

Max. output height: 2048 pixels

- Connectors 2 and 4 are active, while connectors 1 $\,$ and 3 copy the outputs on connectors 2 and 4

• Support for VESA/CVT and user timings • Common resolutions 1920×1080p@30/48/50/59.94/60Hz



12G-SDI Input Card 2x 12G-SDI or 4x 3G-SDI or 1x 12G-SDI + 2x 3G-SDI

Downward compatible with 6G-SDI, 3G-SDI, HD-SDI and

Connectors 1 and 3 are available

• 3G-SDI: Downward compatible with HD-SDI and SD-SDI Four connectors are available

• Deinterlacing by default • Common resolutions

720×480i@59.94Hz 720×4001@37.74112
 720×576i@50Hz
 1920×1080i@50/59.94/60Hz

3840×2160p@23.98/24/25/29.97/30/50/59.94/60Hz

720×576i(PAL)@50Hz 720×480i(PAL)@59.94Hz 1920×1080i@50/59.94/60Hz

12G-SDI Output Card 1x 12G-SDI or 4x 3G-SDI

• 3G-SDI:

Downward compatible with 6G-SDI, 3G-SDI, HD-SDI

Downward compatible with HD-SDI and SD-SDI

and SD-SDI
Connectors 1 is available, while connector 2 copies

the output on connector 1
Connectors 3 and 4 are unavailable
Max. resolution: 4096×2160@60Hz

 Four connectors are available
 Max. resolution: 1920×1080@60Hz • Support for ST-2082(12G), ST-2081 (6G), ST-424 (3G),

• Level A and Level B adjustment NOT supported Support for interlaced signal output

• Support for output timing settings

• Common resolutions 12G-SDI:

 720×480i (NTSC)@59.94Hz • 720×576i (PAL)@50Hz • 1280×720p@23.98/24/25/29.97/30/50/

1920×1080p@23.98/24/25/29.97/30/50/ 59.94/60Hz • 1920×1080i@50/59.94/60Hz

2048×1080p@23.98/24/25/29.97/30/50/ 59.94/60Hz 3840×2160p@23.98/24/25/29.97/30/50/

 4096×2160p@23.98/24/25/29.97/30/50/ 59.94/60Hz • 3G-SDI:

720×576i (PAL)@50Hz
 720×480i (NTSC)@59.94Hz

• 1280×720p@23.98/24/25/29.97/30/50/ 59.94/60Hz • 1920×1080i@50/59.94/60Hz 1720×1080p@23.98/24/25/29.97/30/50/ 59.94/60Hz

RELEASE



HDMI1.4 Quad Input Card

4x HDMI1.4

• HDCP 1.4 compliant

 SL: Up to 2048×1080@60Hz 4:4:4 8-bit DL: Up to 3840×1080@60Hz 4:4:4 8-bit • EDID management for VESA, and CVT compliant

· Common resolutions 1920×1080p@30/48/50/59.94/60Hz
 3840×1080p@30/50/59.94/60Hz



DP1.1 Quad Input Card

• HDCP 1.3 compliant

SL: Up to 2048×1080@60Hz 4:4:4 8-bit
DL: Up to 3840×1080@60Hz 4:4:4 8-bit • EDID management for VESA, and CVT compliant

• Common resolutions 1920×1080p@30/48/50/59.94/60Hz 3840×1080p@30/50/59.94/60Hz



4K HDMI2.0/OPT Output Card

2x HDMI 2.0

• HDMI 2.0: HDCP 2.2 and HDCP 1.4 compliant Up to 4096×2160@60Hz 4:4:4 8-bitDL and 4K output supported

· DL: Max. output width: 4096 pixels

· Max. output height: 4096 pixels

 Max. output width: 8192 pixels Max. output height: 7680 pixels HDMI 2 copies the output on HDMI 1

• OPT 1 and OPT 2 copy the output on HDMI 1. • OPT 3 and OPT 4 copy the output on OPT 1 & OPT 2. Support for VESA/CVT and user timings

• Common resolutions 1920×1080p@30/48/50/59.94/60Hz

2048×1080p@30/48/50/59.94/60Hz 3840×1080p@30/50/59.94/60Hz 3840×2160p@30/50/59.94/60Hz



HDMI1.4 Quad Output Card

• HDCP 1.4 compliant

· Support for single link (default) and dual link output Up to 2048×1080@60Hz 4:4:4 8-bit

Up to 3840×1080@60Hz 4:4:4 8-bit Max. output width: 4096 pixels Max. output height: 4096 pixels
 Connectors 2 and 4 are active, connectors 1 and 3

Connectors 1, 2, 3 and 4 are all active

Max. output width: 2048 pixels

Max. output height: 2048 pixels

copy the output on connectors 2 and 4 · Support for VESA/CVT and user timings · Common resolution

• 1920×1080p@30/48/50/59.94/60Hz 2048×1080p@30/48/50/59.94/60Hz 3840×1080p@30/50/59.94/60Hz

3G-SDI Quad Input Card

4x 3G-SDI

· Downward compatible with SD-SDI and HD-SDI Bi-level at SD and Tri-level at HD

· Common resolutions

• Deinterlacing by default • Support for SMPTE 425-1, 2048-2, 296M, 292M and

720×576i(PAL)@50Hz720×480i(PAL)@59.94Hz

1920×1080i@50/59.94/60Hz



HDMI1.3 Quad Input Card

· Common resolutions

• 1920×1080p@30/48/50/59.94/60Hz

4x HDMI 1.3

· HDCP 1.4 compliant Up to 2048×1080@60Hz 4:4:4 8-bit • EDID management for VESA, and CVT compliant user timings

AUX



AUX HDMII Output Card

Up to 2048×1080@60Hz 4:4:4 8-bit Max. output width: 2048 pixels Max. output height: 2048 pixels

 Support for VESA/CVT and user timings • Common resolutions 1920×1080p@30/48/50/59.94/60Hz

We offer more DVI cards for your choice, including SL-DVI Quad Input Card, DVI (HDMI1.4) Quad Output Card, DVI (HDMI1.4)/OPT Output Card, SL-DVI Quad Output Card and AUX SL-DVI Output Card. If you need more details about these cards,

All the cards can be only installed into the designed slots. Installing a card into an incorrect slot will cause device failure

Specifications subject to change without prior notice.