

Statement

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ColorAdept

A new platform for an excellent experience



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CREATIVE VIDEO · INFINITE FUTURE



Colorlight

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Software

Redefine User Experience

Processor Group Control

Cabinet Library Management

Device Information

Clear Workflow

Quick Association LED Panels

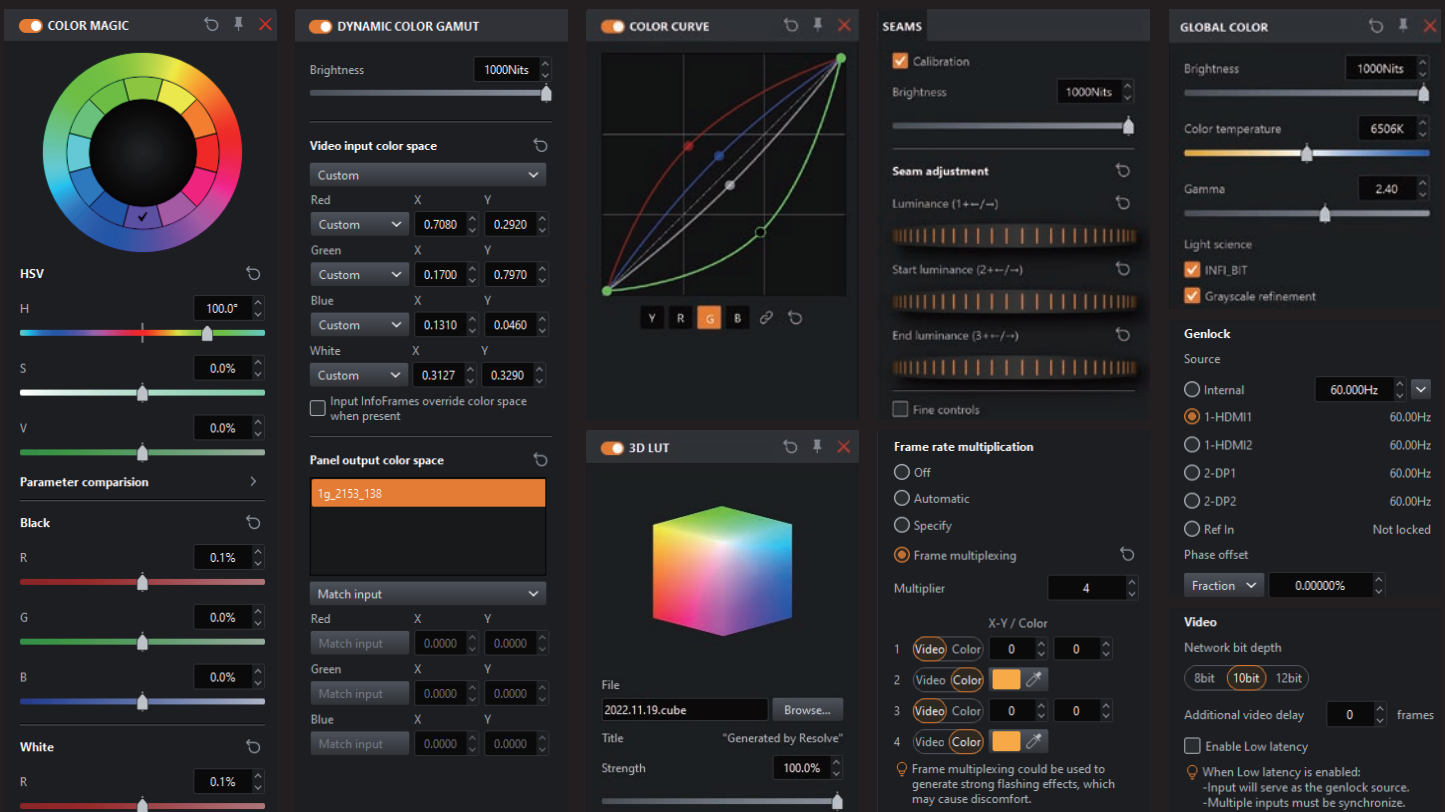
Offline Operation

System Health

Redefine User Experience

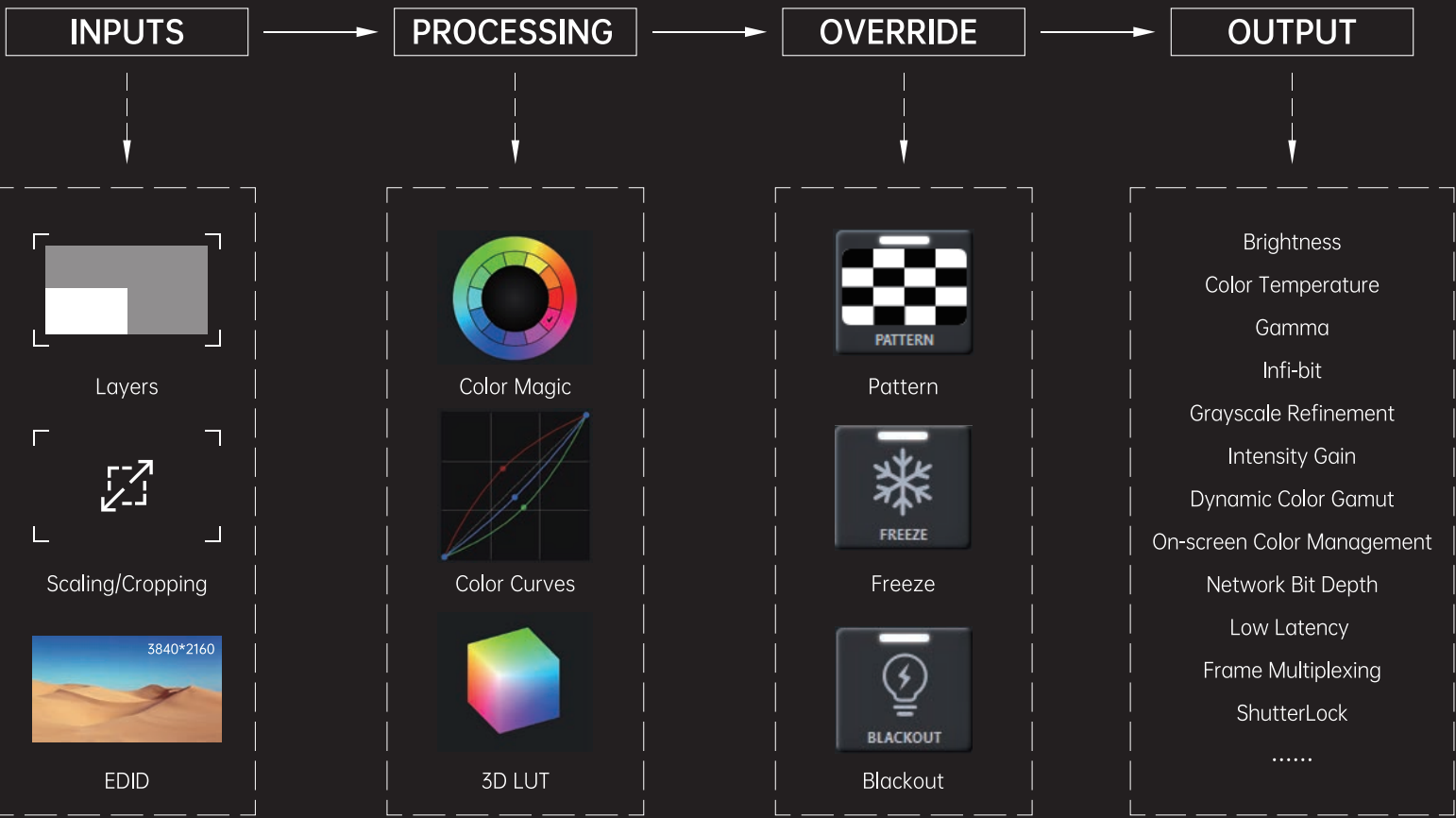
ColorAdept software is designed to be accessible even for beginners, with an intuitive graphic interface and clear controls for quick and easy setup of the LED panel wall. It is compatible with windows and macOS, and allows you to remote control the system via a Gigabit Ethernet network.

Intuitive UI design, which fully follows the interaction principle of Signifiers in design psychology, can be understood and employed effortlessly. Meanwhile, it gives users a feeling of familiarity which allows users to teach themselves with ease.



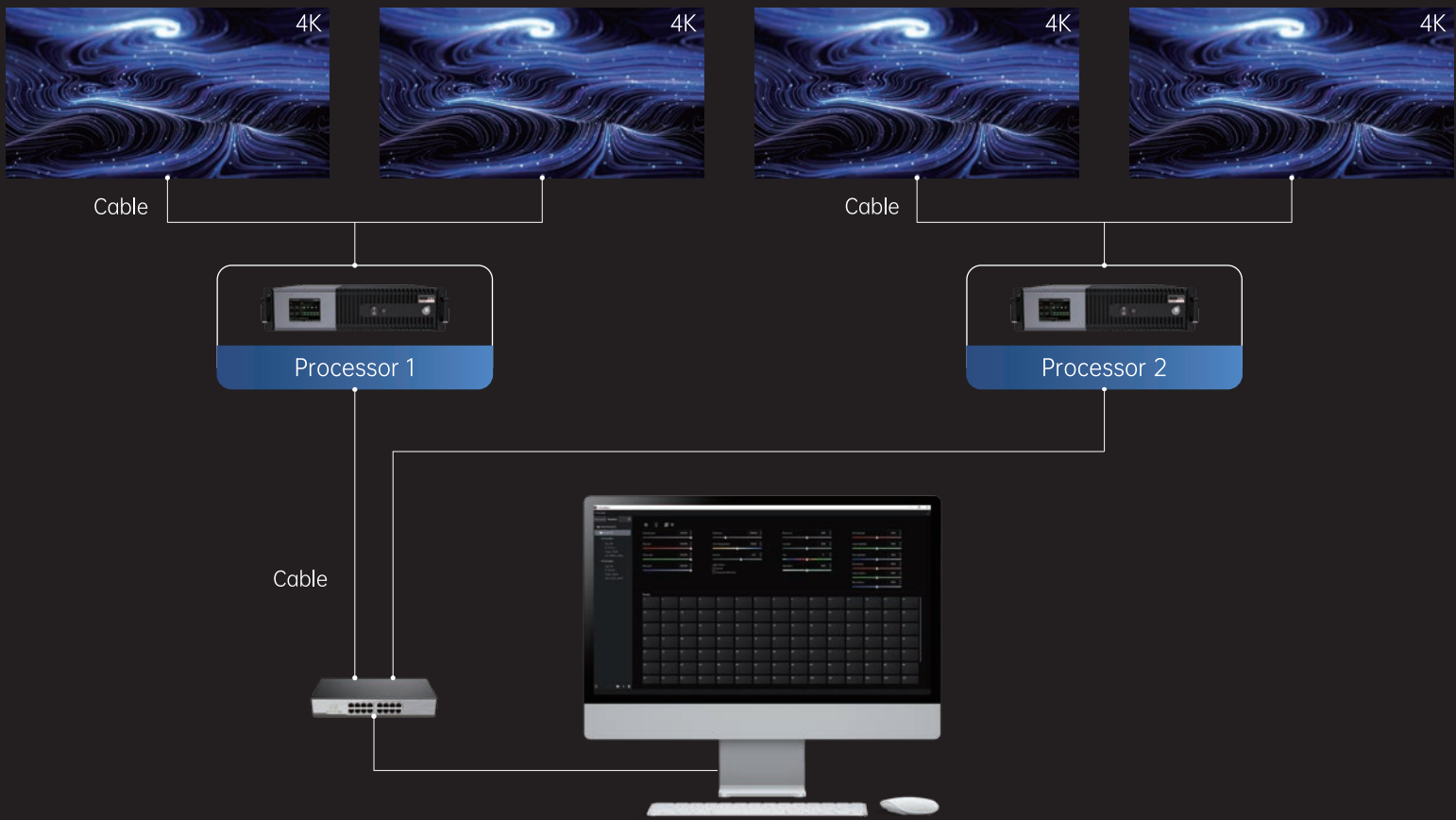
Clear Workflow

Its elegant simplicity clearly shows the signal flow through the processor. Additionally, the modern user interface is fast to learn, easy to use for new users and powerful for professionals.



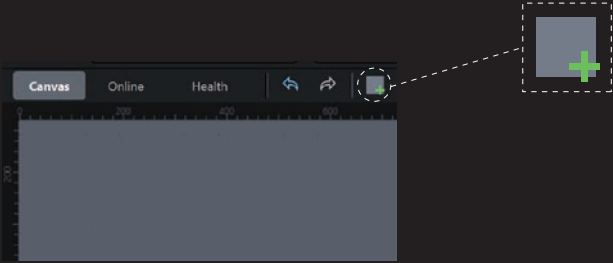
Processor Group Control

Processors can be divided into different groups, so you can set parameters synchronously within one group, including input settings, screen brightness, test patterns, freeze, blackout, preset triggering, etc. Operating large LED setups with multiple processors has never been quicker and simpler.

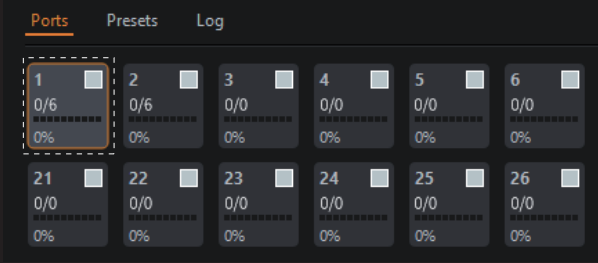


Quick Association LED Panels

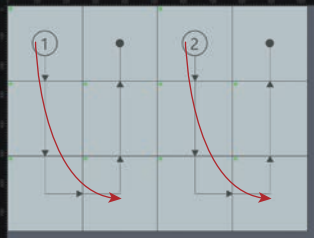
1 Click the "Add Cabinet" button on the canvas toolbar to enter the cabinet adding mode.




2 Select the corresponding port for association.



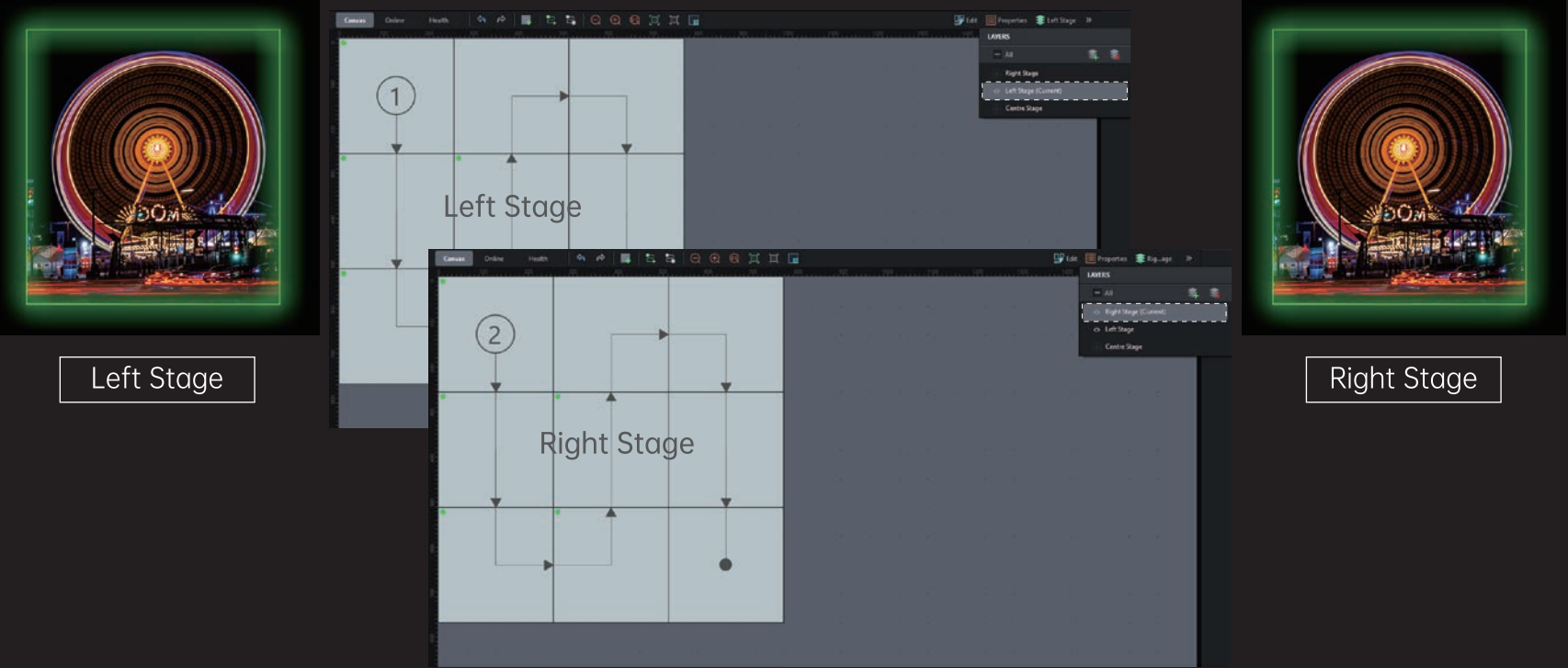
4 Clicking and dragging will draw an array of cabinets. The topology is defined by the direction taken when drawing the array.



3 The on-screen cabinet number will be shown, and you are able to locate the cabinet position quickly.

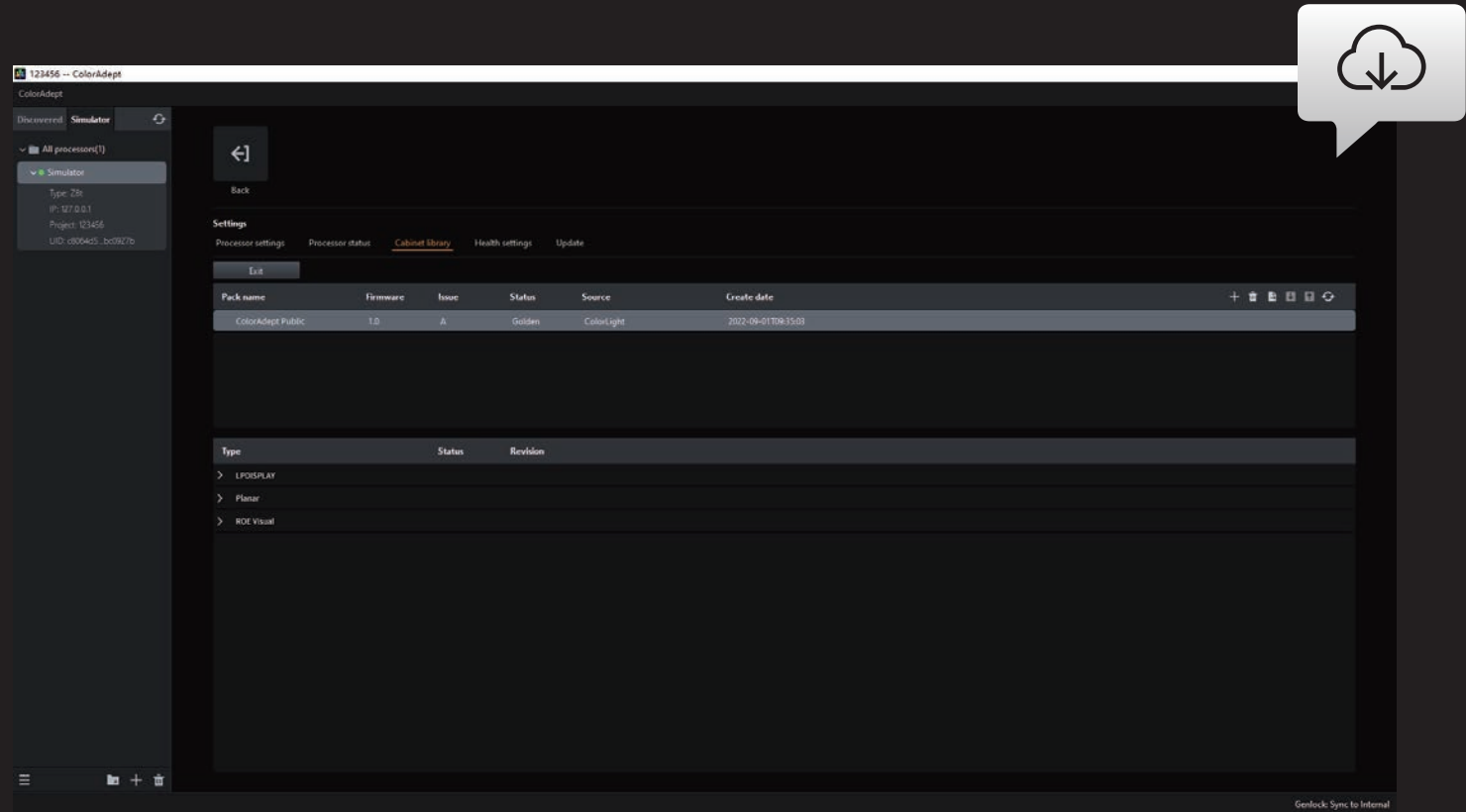


Layers are an easy way of managing overlapping cabinets. Layers are particularly useful when two groups of cabinets are superimposed on the canvas, so that the content can be easily duplicated on two sets of cabinets, such as when using two screens showing the same content on either side of the stage.



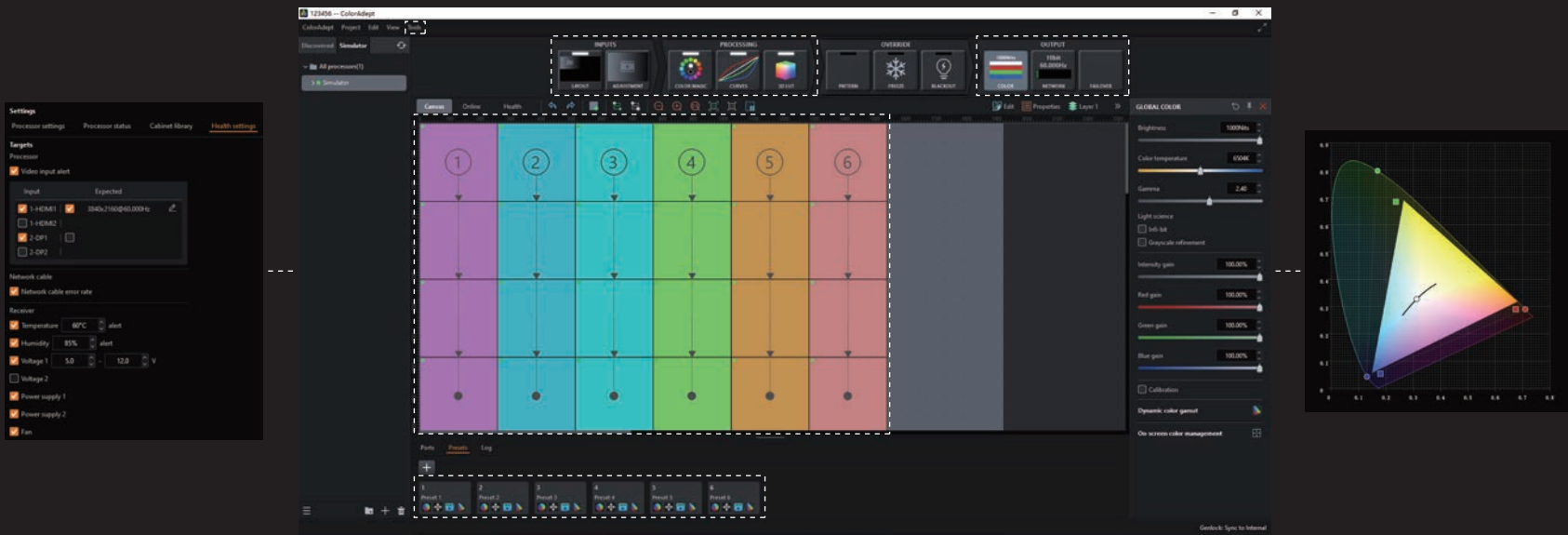
Cabinet Library Management

Cabinet library unifies cabinet parameter management. At the same time, it is more convenient to update cabinet parameters with the function of downloading the latest cabinet parameters from the cloud.



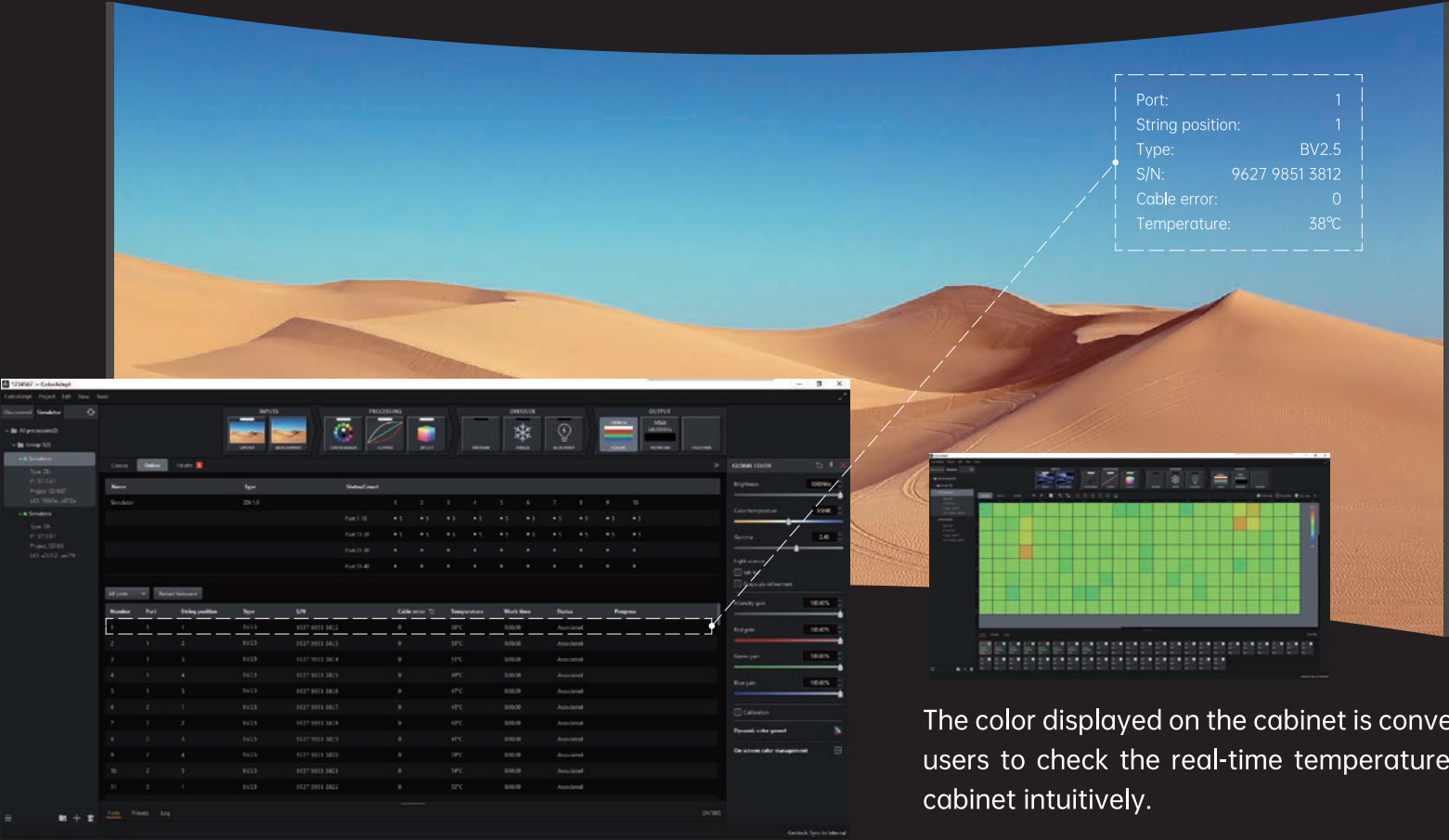
Offline Operation

ColorAdept software can even be used without a processor, so you can create your project ahead of time, including processor configurations, selecting cabinet types, and mapping your layout. Once a processor is online, import the project configured and you are all done.



Device Information

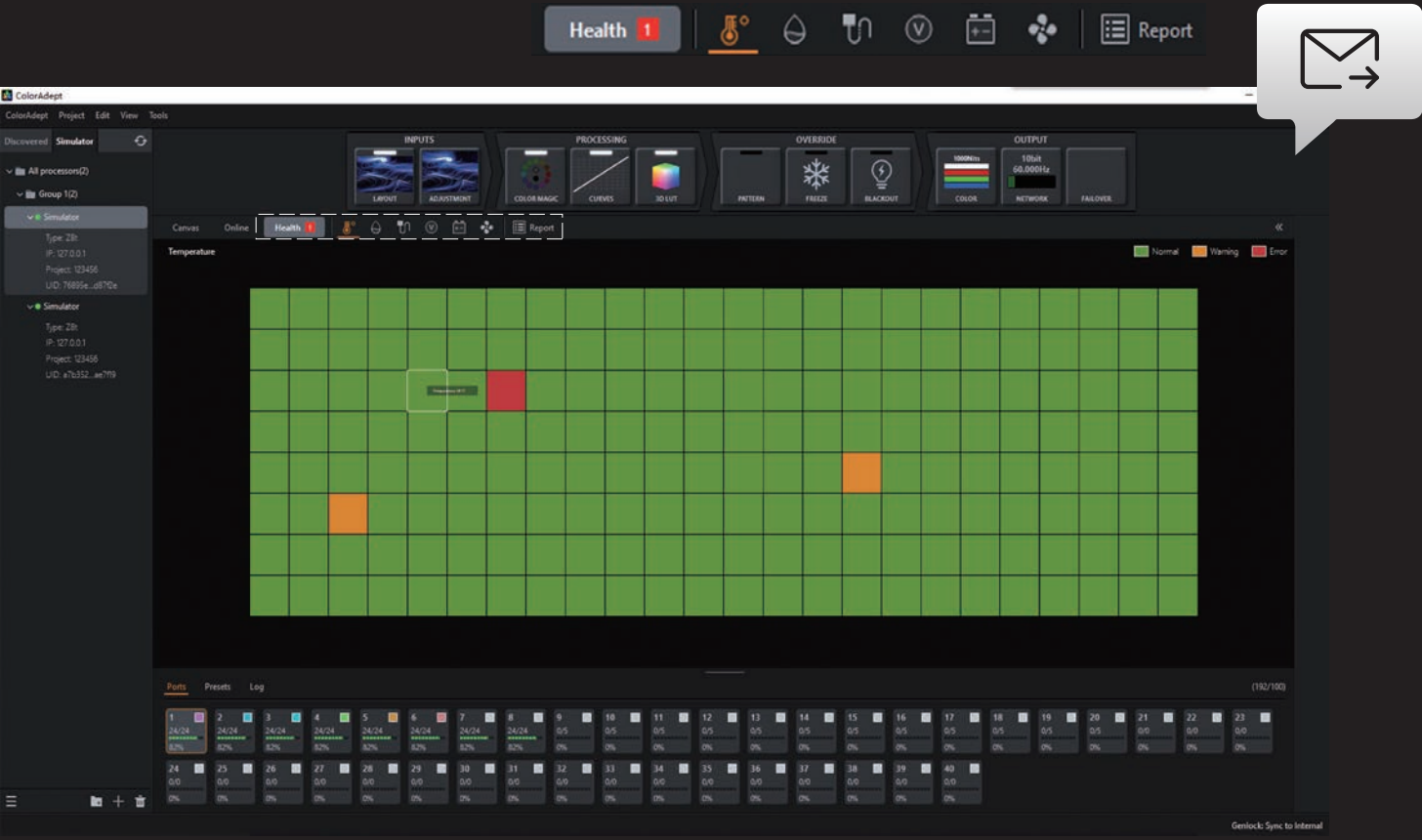
The "Online" view provides comprehensive information about the current processor and all cabinets connected with the processor output ports.



The color displayed on the cabinet is convenient for users to check the real-time temperature of each cabinet intuitively.

System Health

The "Health" view supports monitoring of inputs, temperature, humidity, network cable error, voltage, power supply, and fan. When abnormal situation occurs, email alerts will be sent to achieve 24-hour unattended operation.



Products











Z8t, Z8i

Comparison

Processors









Z8t



- 
Color Magic
- 
Color Depth
- 
3D LUT
- 
Frame Rate
- 
Input
- 
Low Latency
- 
Frame Multiplexing
- 
WCG
- 
ShutterLock
- 
Cable

Z8i



- 
Color Magic
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Color Depth
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ShutterLock

Comparison

Model	Z8t	Z8i
Loading capability	Up to 17.69 million pixels	Up to 12.60 million pixels
Color depth	8/10/12bit	8/10/12bit
Frame rate	23.976Hz ~ 240Hz	23.976Hz ~ 240Hz
Input (optional)	2 × HDMI2 .0	2 × HDMI 2.0
	2 × DP 1.2	2 × DP 1.2
	2 × 12G SDI	2 × 12G SDI
Output (optional)	4 × 10G Fiber	20 × 1G Ethernet
	8 × 5G Ethernet	/
GenLock	Input/Loop	Input/Loop
Control	2 × RJ45 (TCP/IP)	2 × RJ45 (TCP/IP)
	1 × RJ11 (RS232)	1 × RJ11 (RS232)



Technology

Color Magic

3D LUT

Infi-bit

Dynamic Frame Rate

Frame Multiplexing

HDR

Presets

10G Fiber Transmission

Color Curves

Color Space Transform

Grayscale Refinement

Ultra Low Latency


ShutterLock

Seam Correction

5G Bandwidth Transmission

Color Magic

Color Magic allows singular or multiple pre-defined colors to be adjusted without affecting other colors. HSV controls are provided for each of the primary, secondary and tertiary colors. Black and white can be adjusted using RGB gains. It mainly focuses on precise adjustments and corrections of specific colors.



Original



RED

ORANGE

YELLOW

LIME

GREEN

TURQUOISE

WHITE

CYAN

COBALT

BLUE

VIOLET

MAGENTA

CRIMSON

BLACK



Orange



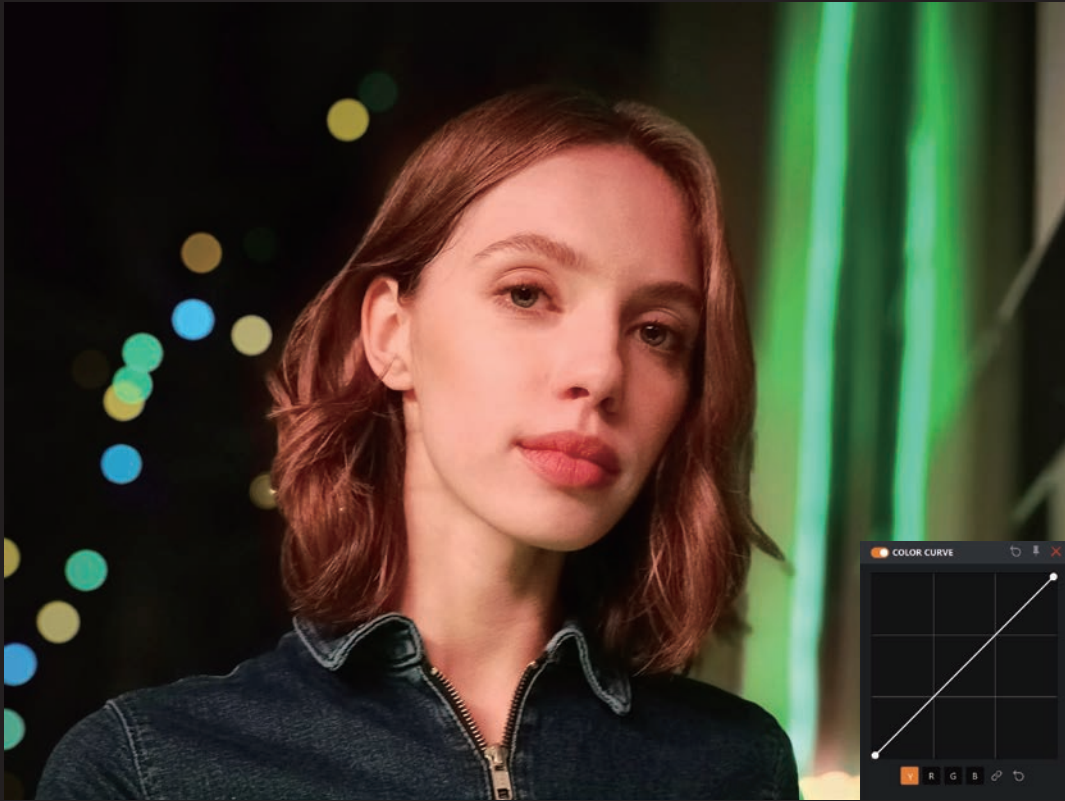
Green



Cobalt

Color Curves

Color Curves can manipulate video levels for red, green, blue and white color channels by creating custom transfer curves. It can also be used to creatively adjust the "look" of the video or as a tool to fine-tune the appearance of the screen for ambient lighting conditions or on-camera performance.

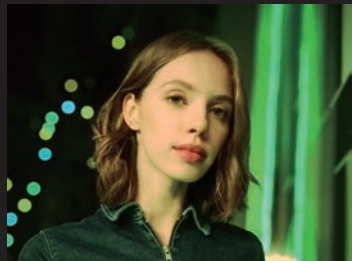




COLOR CURVE



COLOR CURVE



COLOR CURVE



COLOR CURVE

3D LUT

3D LUT is an efficient way of remapping colors and allows for advanced color correction. It is commonly used in film production, for everything from on-set camera tuning to color grading in post. Additionally, it can be used in conjunction with Color Magic and Color Curves, and is applied after you've made any previous color corrections.



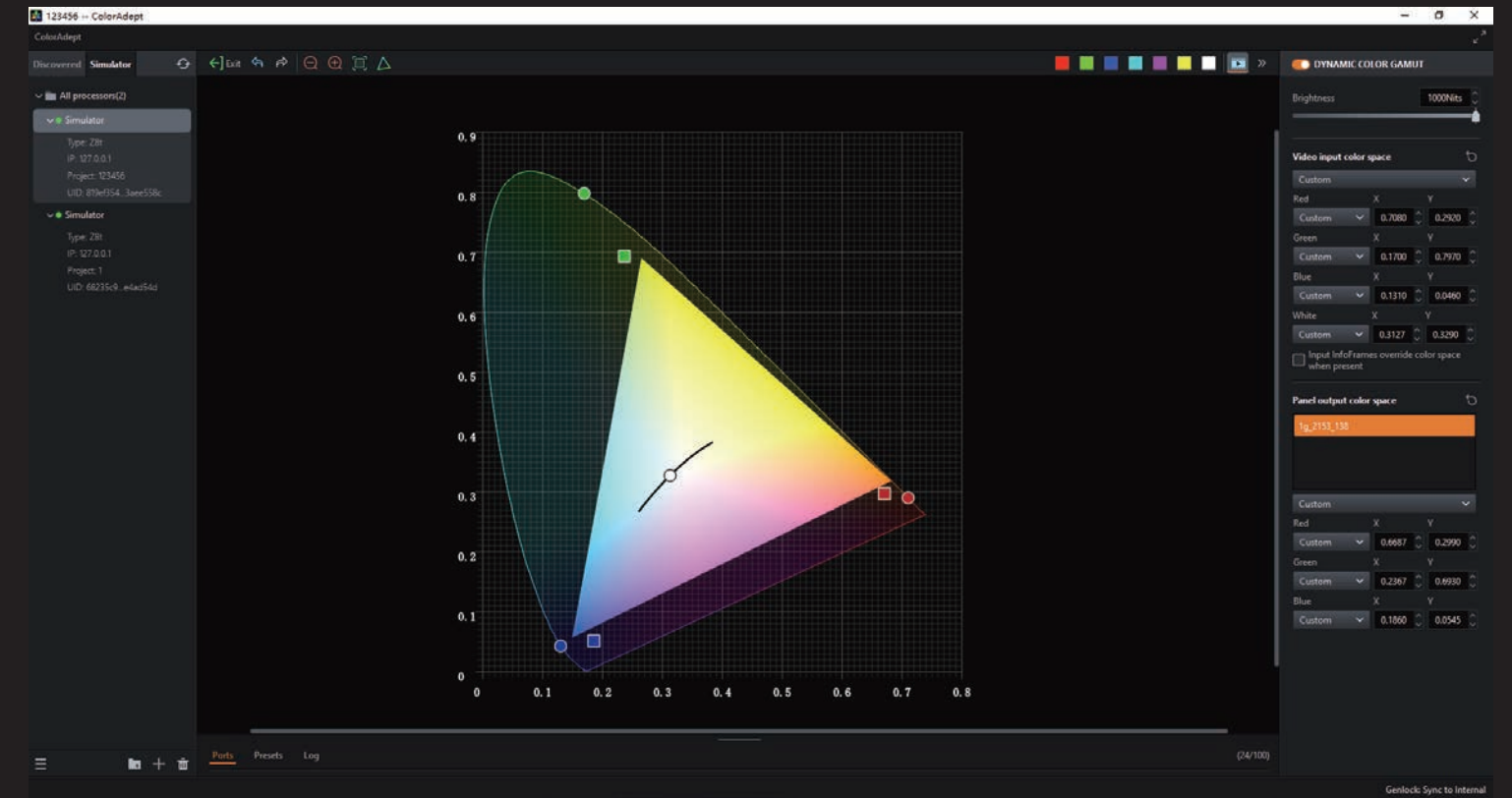
3D LUT 1



3D LUT 2

Color Space Transform

You can adjust the output display to a standard color space, such as Rec.2020, DCI-P3, and Rec.709, or customize your color space. Moreover, it can solve the problem of color deviation caused by different color space of various screens.



Infi-bit

Infi-bit is a grayscale expansion technology which increases the effective bit depth of the output, making the gradient smoother and showing more details in darker areas.



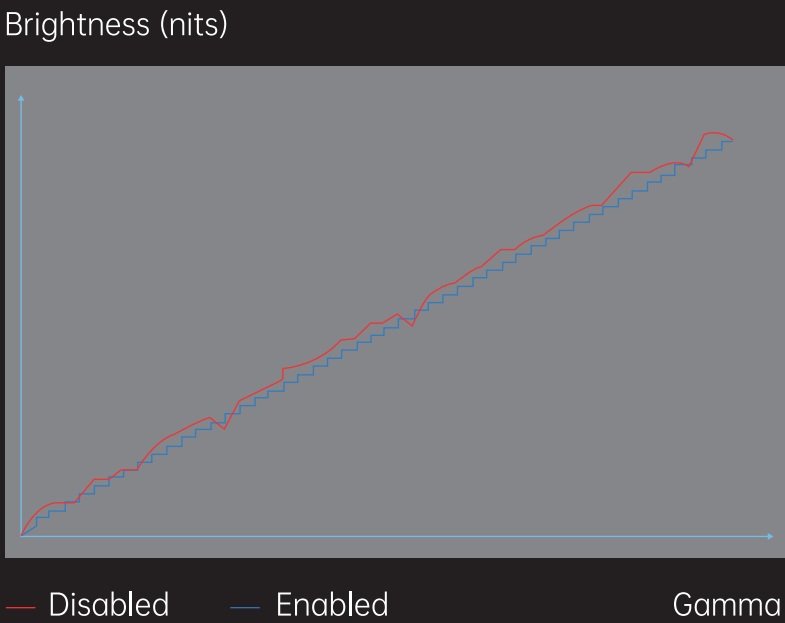
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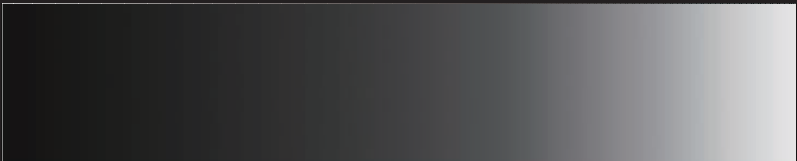
Enabled

Grayscale Refinement

Red, green and blue LEDs and their driver chips are not perfectly linear, which means the actual effect under different gray levels cannot be achieved, and even cause color deviation. With Grayscale Refinement, you can control LED chips more accurately and refine the R,G,B gamma curve, ensuring true, clean, accurate colors and grays at all brightnesses.



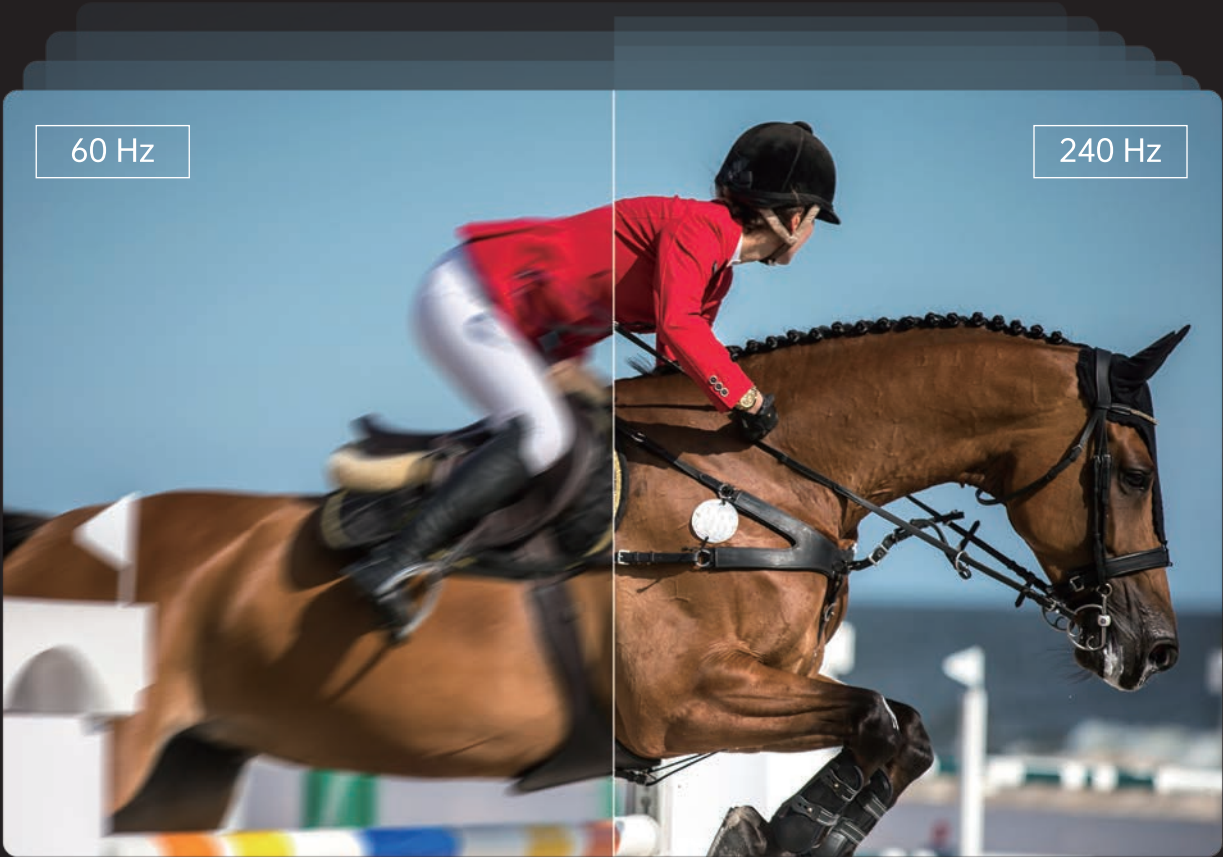
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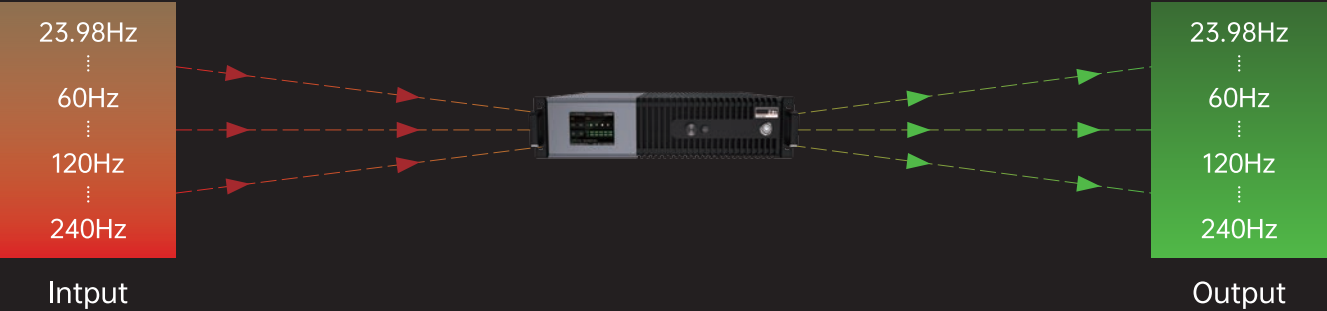
Enabled

Dynamic Frame Rate

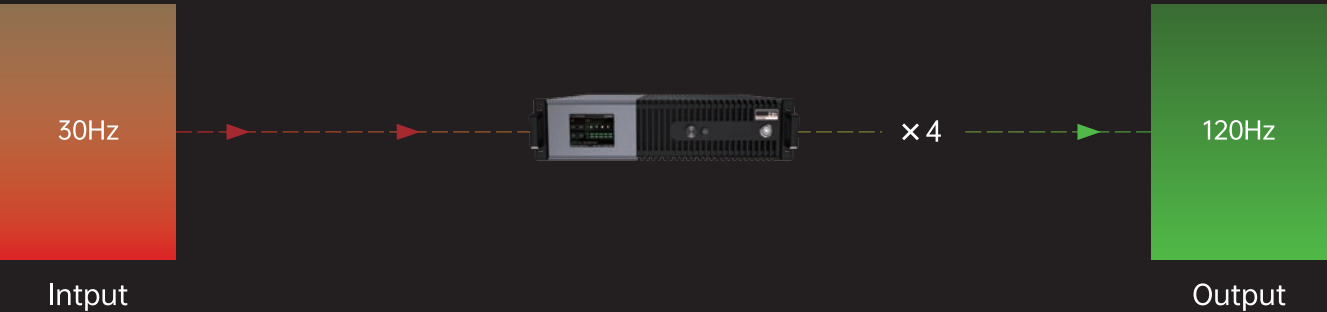
High Frame Rate, from inputs, video processing to output display, makes it possible to play video content up to 240fps, offering smoother and clearer visual effects every moment. It is also applicable to high-speed photography in virtual production.



Our system is available from 23.976fps (film industry standard) to 240fps (high frame rate), which can be used in a variety of applications.

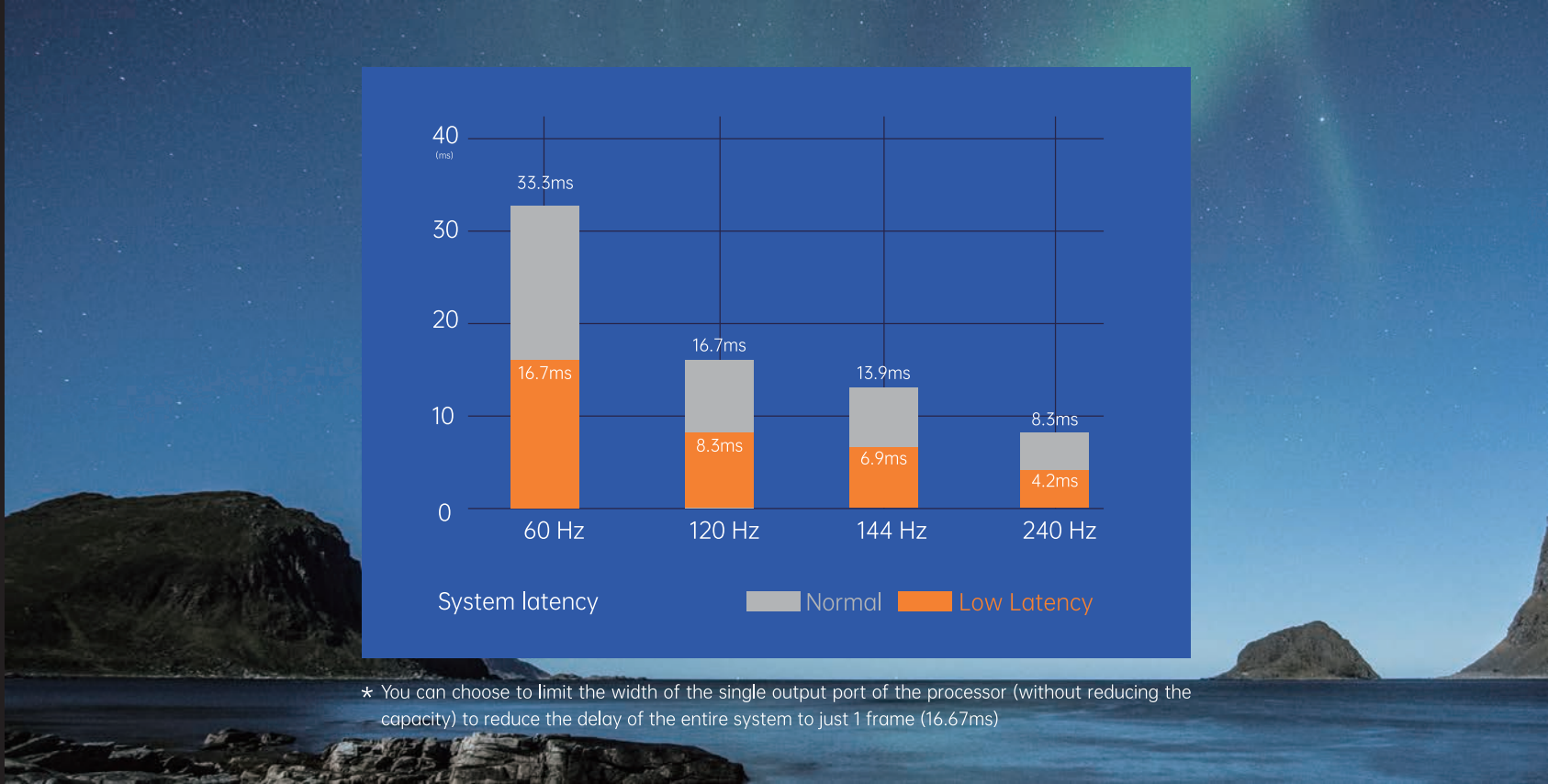


Multiplier enables some low frame rate images to be displayed on the LED screen at a higher frame rate, making the display more stable.



Ultra Low Latency

Ultra Low Latency can reduce the end-to-end latency to just 1 frame. It provides a latency minimising solution for the broadcast, television and film industries, making it easier to synchronize live action and tracked camera moves with visual effects, virtual sets and virtual studios.



Frame Multiplexing

Frame Multiplexing allows multiple cameras to simultaneously each see, track, and capture different content when viewing the same LED screen. This enables film-makers to realise the significant benefits of multi-camera shoots on a virtual production set.



ShutterLock

When filming an LED screen, with ShutterLock you can tune your LED screen refresh to precisely match the camera's shutter speed, which can effectively prevent ugly artefacts appearing.



Without ShutterLock



With ShutterLock

HDR

HDR image presents visual effects with lots of dynamic range and a wide range of colors, making it brighter in bright parts and keeping more details in dark areas. It gives you a visual effect closer to the Human Visual System.



HLG

PQ-HDR10

Seam Correction

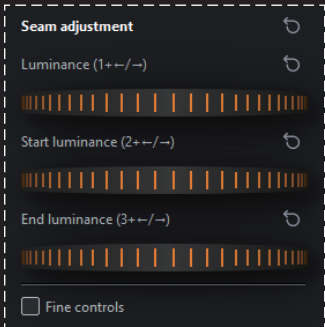
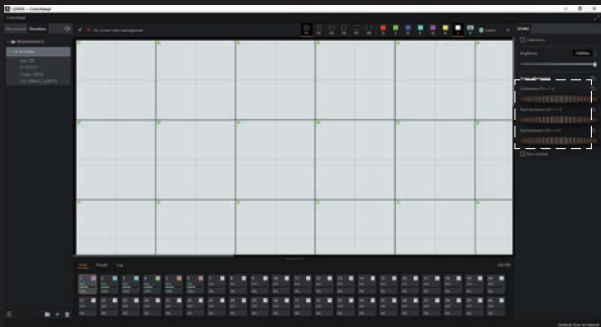
Seam Correction can improve the uniformity of screen. Through visual seam correction and flexible shortcut key operation, users can easily eliminate the seams between cabinets or between adjacent modules within cabinets.



Before



After



Presets

Presets can be set to store settings on the processor, including color, position, video and dynamic color gamut. For example, it can be used to set different color and brightness settings to compensate for changes from day to night or cloudy versus sunny conditions.



Preset 1



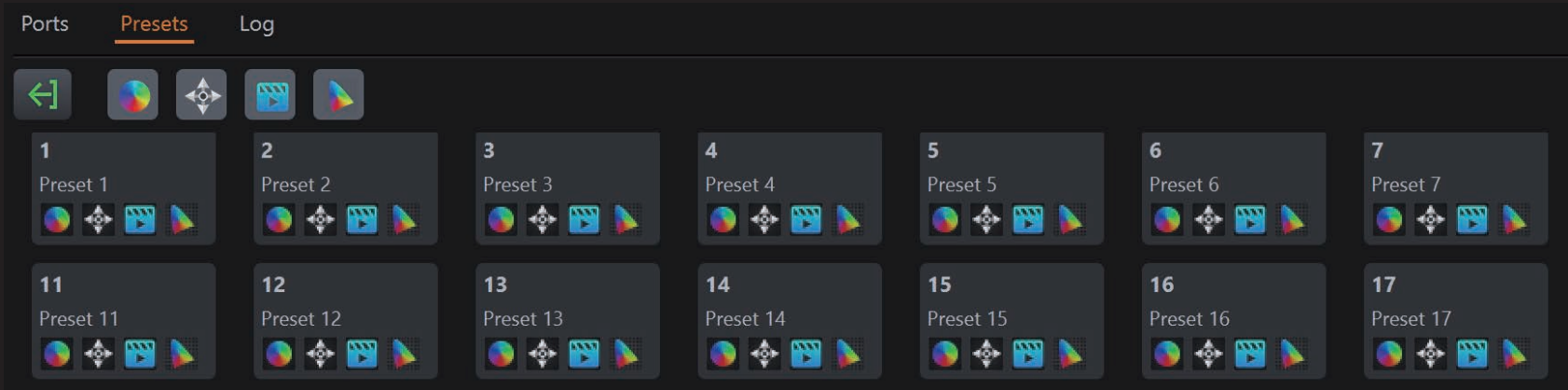
Preset 2



Preset 3

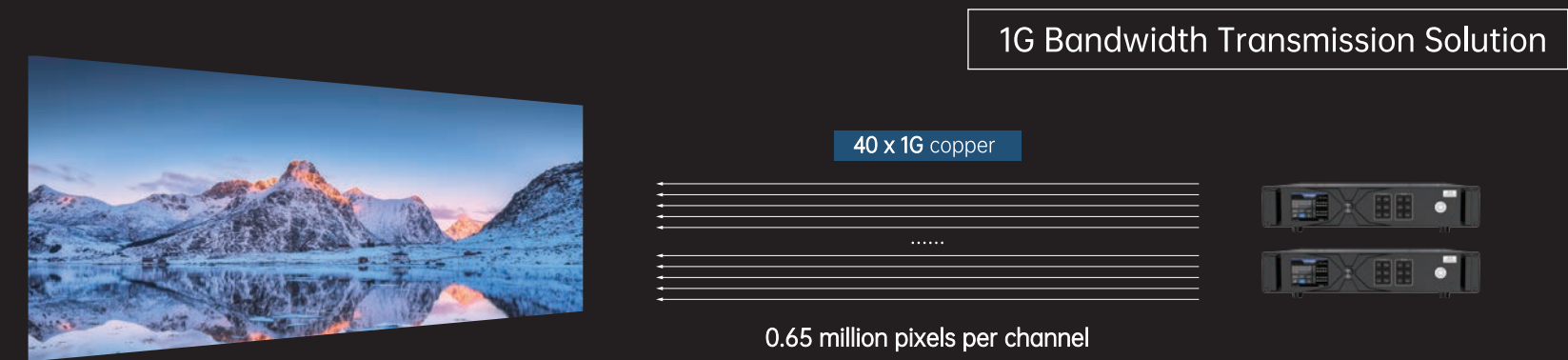
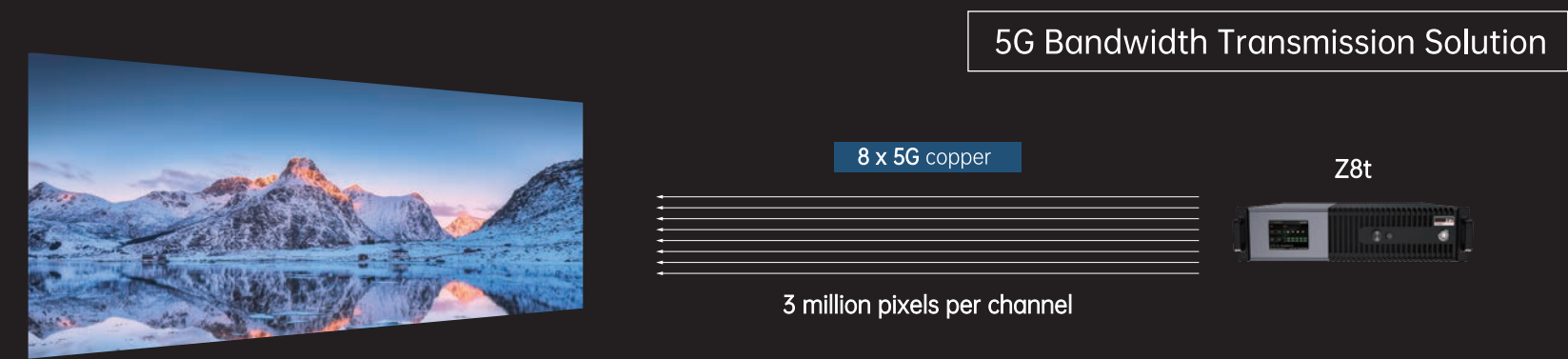


Preset 4



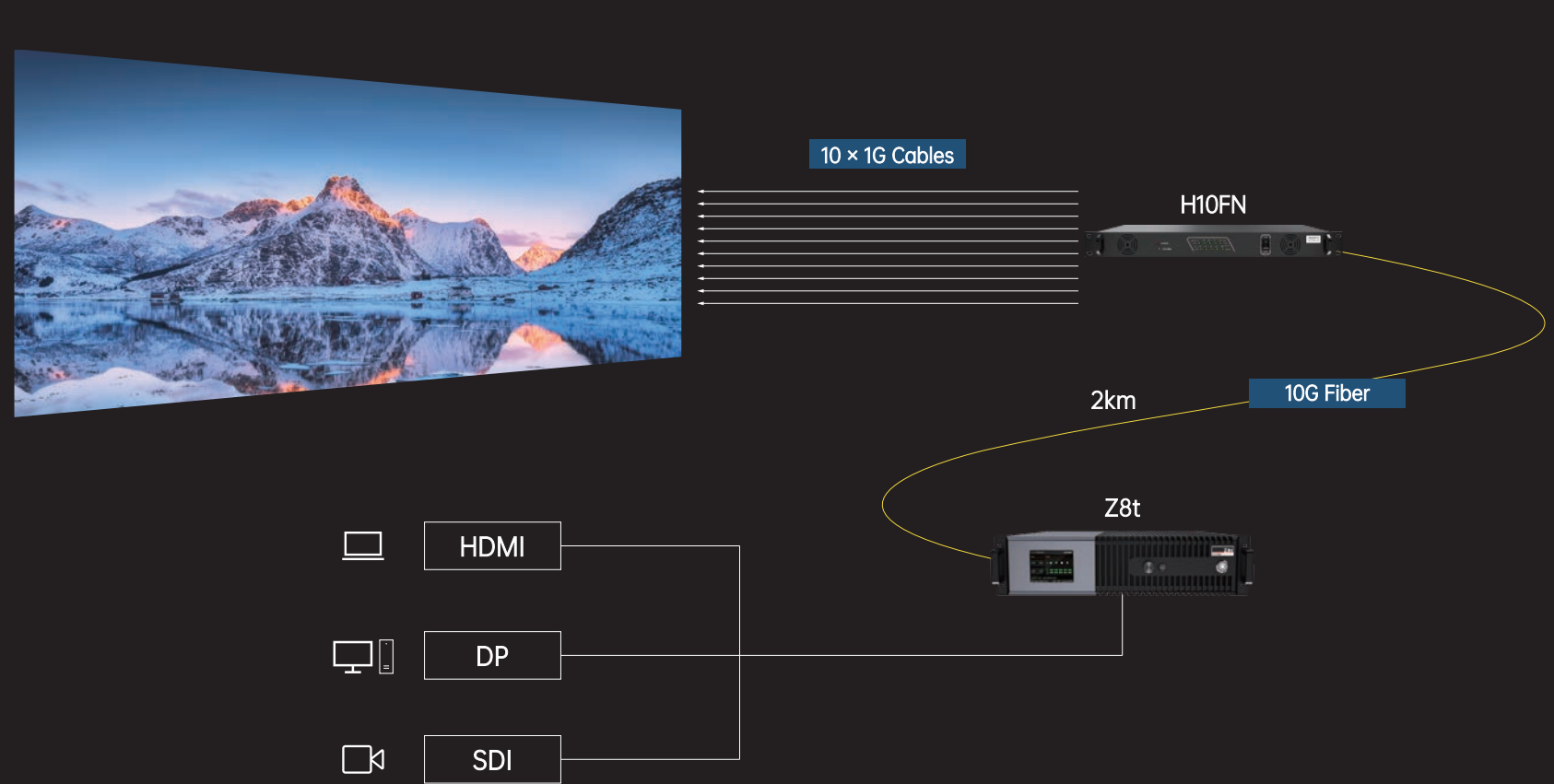
5G Bandwidth Transmission

Working with 5G receiving cards can realize end-to-end 5G bandwidth transmission. It can load 3 million pixels through one Ethernet cable, which is nearly 5 times of 1G bandwidth system.



10G Fiber Transmission

10G optical fiber not only ensures ultra-long-distance transmission of signals without lose, but also greatly reduces the number of wiring at the control end.





Applications

XR Studio
Live Events

Television Station
Church

XR Studio



Television Station



Live Events



Church

