Splicing Processor Cabinet

TV-8204U

Description:

LED splicing processor supports unified access and management of many types of signals. Integrating advanced image processing technology, control and management technology, it is dedicated for LED screen system to solve irregular LED module resolution, different LED module parameters of different manufacturers, high requirement of image processing and so on. It supports a variety of image control technologies such as signal acquisition with ultra high resolution, multi-screen display, real-time synchronous processing, output resolution customization, etc. It has powerful functions to meet various display requirements including fine pitch, ultra high resolution, real-time synchronous control and others.

Feature:

* LED splicing processor cabinet adopts 4U mainframe cabinet + horizontal card slot design, and supports redundant extension mode for safe extension and upgrade of the system. It is equipped with fans on both sides, and all the input module, output module, switching module, control module, power module, and fan module support hot swap.
* It adopts pure hardware FPGA array and back-plane computing exchange technology. With start-up time < 5S, it can start working as soon as being powered on. The system has no risk of virus infection, which is stable and reliable. It supports 365 days and 7*24 hours of continuous work throughout the year.
* The front panel has a display screen with a button panel, which supports signal switching of input and output channels. It supports a variety of control methods including infrared remote control, central control (RS-232), keyboard, panel buttons, etc.
* Support output resolution customization, for the irregular LED module resolution to perfectly match with the LED screen resolution; the optional resolution includes 1920*1200, 1920*1080, 1600*900, 1400*1050, 1366*768, 1024*768.
* Support image frame rate of 60 frames/sec.
* When the DVI interface is connected to external display devices, it can support the point-to-point display screens with ultra high resolution including 19200×3240, 15360×3240, 10928×3072, 10928×2304.
* Adopt output frame synchronous processing function and internal unified clock to ensure synchronous signal output of each output channel.
* Support output interface toning function, professional WLEDCOLOR color optimization and processing technology, so that the LED screen is effectively balanced when playing scenes of white frame and dazzling environments, ensuring that the image color is softer and more natural.
* Support free windowing; any output interface supports 4 channels of window display screens; a single board card supports 16 signal windows; suitable for various data display environments.
* Support functions such as moving, scaling up/down, multi-screen, switching, overlaying, and picture-in-picture of all display windows.
* Support character overlaying function; support subtitle labeling of input interface signals, and the font, font size, color, position and others of the overlaid characters can be customized.
* Support the functions of black border, screen cropping, and window copying.
* Support hardware echo function, which can visually recognize the input signals; support viewing the current display status of the system through the display.
* Support software echo function, support viewing the current display screen on the software interface, and support preview and full-screen echo of any connected signal; the echo refresh rate is 30Hz, and the echo image is clear and smooth.
* Support multi-user control and management function. Operating permissions can be set through software, and different operating functions can be formulated according to the permission level. Different levels have different operating permissions.
* Support multi-level user permission management, and the permission modes include administrators, operators and users; support management of different zones, levels and permissions.
* Support setting the operating zones of each operator according to different zones of the video wall; they has common access permissions, and can simultaneously access a single zone.
* Support mobile terminal visual management, support visual touch management, signal switching, picture overlaying, picture-in-picture, picture splicing, screen roaming, screen scaling up/down, screen moving/turning off and other operation of the system through the mobile terminals including Windows/Android/IOS; support real-time monitoring of the display control area; support multi-user & multi-platform synchronous operation; support real-time synchronization of different platform operation interfaces.
* Adopt C/S management and control structure; multi-user real-time operation based on TCP/IP network and serial port can realize definition, scheduling and management of multiple signal sources.
* Support customizing and pre-storing different scenes; support up to 128 scene modes, and one-key invocation of scenes; can define different scene switching effects and scene names; support customizing conference modes, and invoking pre-stored conference modes; support scene patrol, and patrol time is adjustable.
* Support screen mirroring when working with TV-811F

Specifications:

Model	TV-8204U
Cabinet	4U
Input slot	4
Output slot	4
Input board interface quantity	2/4/8
Input signal	VGA, DVI, HDMI1.3, SDI, CVBS, YPbPr, Dual-D, HDMI1.4, DP, IP, HDBaseT, Fiber
Maximum input resolution	4K
Output board interface quantity	2/4
Output signal	VGA, DVI, HDMI1.3, SD, CVBS, HDMI1.4, HDBaseT, Fiber and MirView local echo
Maximum output resolution	1920×1200@60Hz
Board card	Modular hot swap structure
Back-plane recognition	Back-plane automatic recognition
Security feature	No virus or system crash
Display method	Combination / windowing / overlaying / scaling up/down / cross screen, etc.
Screen cropping	Screen cropping of any scale and size
Character overlaying	Settings of character color, size, position, etc.
EDID	Input and output EDID editing functions
IPad visual management	Support
Scene invocation	128 scene modes
Alarm linkage	Support alarm source access
User management	Multi-user, multi-level permission settings
Network control	TCP/IP protocol, RJ45 interface, 10M/100M self-adaption
Serial port control	RS-232 interface × 2, 9-pin D-type male interface, baud rate 115200
Other control method	Infrared remote control, panel buttons
Working temperature	-15℃-60℃
Working humidity	10-90%(RH), no condensation
Working voltage	AC 100-220V, 50-60Hz
Power supply	Standard×1, support redundant power supply 1+1
MTBF	>50,000H
Net weight	11Kg
Gross weight	13Kg
Size	485*365*190mm
Power consumption	200W(MAX), 67W(no load)
Screen mirroring	Support