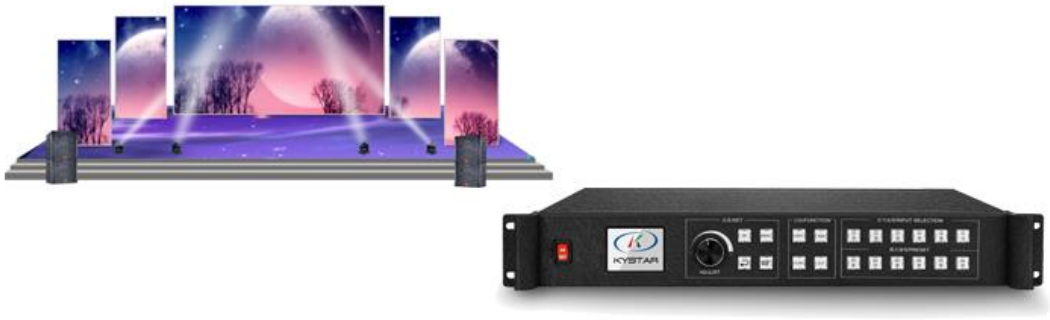
U6

Six Windows Processor



★ Output pixels up to 15360 horizontally or 6144 vertically

★ Display six windows of images on a single screen simultaneously or control six different LED screens

★ Support HDMI , DVI , VGA , SDI , CVBS , IP inputs

★ Six windows preview and output monitoring

★ Ethernet monitoring and control in real time

★ Editable text and image overlay

★ Window or mode transition effects including dissolves, wipes, and cuts

★ Brightness control of each input

★ Transparency adjusting and edge feathering

★ Hot backup of input signals

Multi-format signal processing & 4k Processing

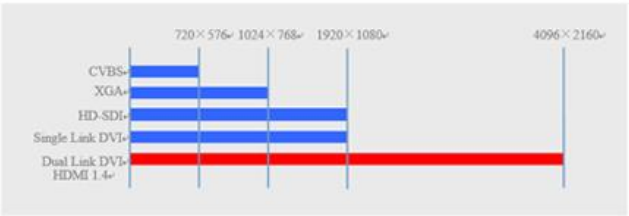
Multi-format Signals Processing

Processor is compatible with a variety of input signals : DVI×1, HDMI×1, VGA×2, CVBS×2, SDI×1 and expansion slot×1.

The expansion slot can be configured as HDMI 1.4a,IP, DVI, HDMI1.3, and CVBS.

4k Processing

Accommodating 4k signal input terminals including HDMI 1.4 and Dual Link DVI, U6 enables an input resolution up to 4096×2160, conveniently realizing UHD display of large LED screens!



Splicing Output For Large Screen

User-define Splicing Display

Processor is a 4 outputs device that supports horizontal, vertical and cross splicing to reach high resolution as 15360×600 or 1536×6144. U6 also supports user-define output resolution , allowing users to freely change aspect ratio of resolution and refresh rate.

Free Display of six Windows

Free Display of six Windows on a single screen

U6 enables the simultaneous display of six windows on a single screen.The size, location and hierarchical relationship of each window can be adjusted independently.

Multi-screen Combination and Special-shaped Splicing

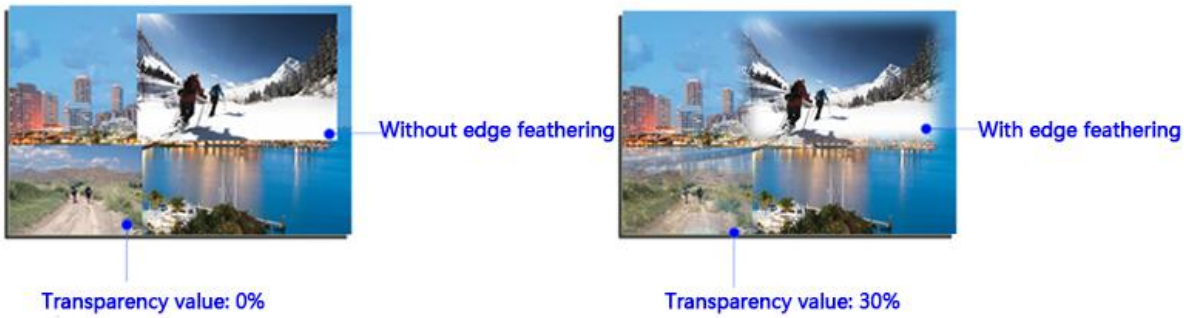
U6 can not only display 6 windows on a screen, but control 6 LED screens simultaneously as well, each of which can display independently or be combined into a complete image. Besides, pixel pitch of such screens can be different.

Pixel pitch of each screens can be different.

Image Configuration

Transparency adjusting and edge feathering

In order to integrate the different layers of image well, U6 can change the transparency of each windows or achieve edge feathering effect.



Local Monitoring And Preview

There’ re three modes when using the local monitor & preview output of U6:

1.Monitor the outputs, showing the same image with the Display.

2.Preview the inputs, showing 6 inputs images in the same time.

3.Monitor and preview in the same time.

Excellent Image Processing Effect

CrossInt Splicing Technology

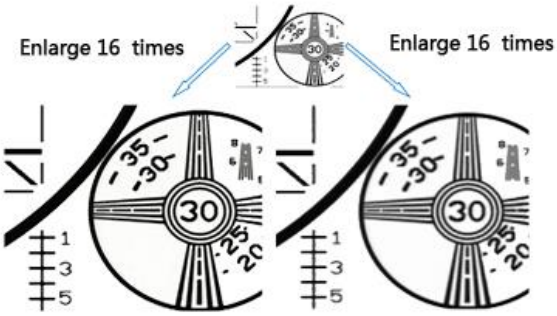
The splicing unit of LED screen is often non-standard, non-uniform or different size ones, which may result in dislocation or out-sync etc. U6 adopts the CPT+FST splicing processing technology specially designed for small pixel LED displays, perfectly solving the said problem.

Conventional splicing method commonly leads to dislocation or out-sync

CrossInt technology guarantees uniformity and synchronism of splicing

Super Resolution Technology

Super Resolution Zoom-in Technology can effectively eliminate edge aliasing induced from image zoom-in, thus reducing out-of-focus blur accordingly.



Super Resolution Zoom-in Technology Traditional Interpolation Zoom-in Technology

Images And Texts Overlay

U6 is able to generate independent images and texts overlay layer. The user is allowed to overlay pictures or characters on the signal image conveniently with the KYSTAR control software . The overlaid contents can be stored in the equipment.

Ethernet monitoring & control in real time

Ethernet control

U6 can be compatible with KYSTAR management software via Ethernet or serial communication. Users can configure parameters on U6 through management software, adjust window layout, complete special effects switching, set up scheduled tasks etc.

Ethernet monitoring and preview

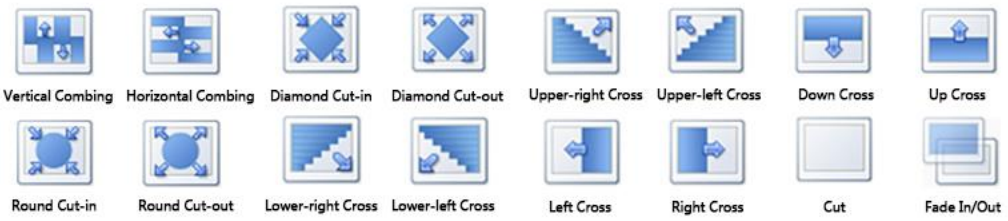
Via Ethernet, users can not only configure the parameters of U6, but achieve monitoring and preview through the KYSTAR management software in real time.

Seamless Transition With Effects

Whether in case of a signal or a preset, U6 is capable of seamless transition, without any blackout, glimmer or delay in the process; Besides, U6 owns over ten transition effects for choice by the user, adaptable for different applications.

Window Transition

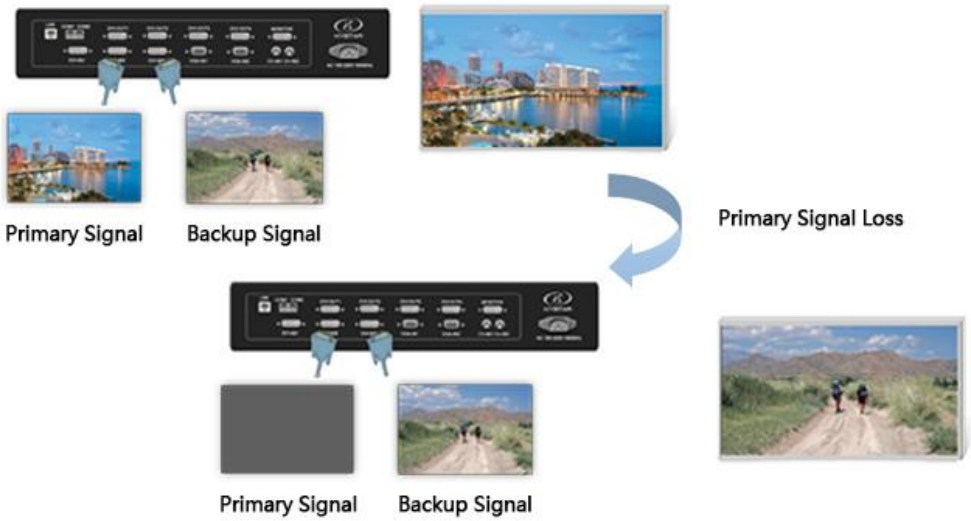
Preset Transition



Hot Backup of Input Signals

Hot Backup

Users can specify the backup signal for signal source . If current signal goes wrong, the system will automatically detect and call the backup signal immediately. And if the signal returns to normal, the system will transfer back to the original signal intelligently. Building parallel system with this function, the reliability of scene can be guaranteed efficiently.



Parameters

Video Input		
Type	**Qty.**	**Description**
DVI-D (24+1)	1	· 1920×1200@60Hz max., downward compatibility · Compatible with HDMI1.3 and inferior version, EDID version 1.3
HDMI (TYPE A)	1	· 1920×1200@60Hz max., downward compatibility · Compatible with HDMI1.3 and inferior version, EDID version 1.3
VGA (HD-15)	2	· 1920×1200@60Hz (UXGA) max., downward compatibility
Composite Video (BNC)	2	·NTSC/PAL adaptive, support 3D comb filter
Extension Input	1~2	· Can be configured as DVI, VGA, SDI, HDMI1.3/1.4, Dual Link DVI, IP and CVBS · Default configuration：2 DVI-D inputs
Video Output		
Type	**Qty.**	**Description**
DVI-D (24+1)	6	· Support common output resolutions like: 2048×1152@60Hz and 1920×1080@60Hz · Support user-define output resolutions like 3840×660@60Hz · Compatible with HDMI1.3 and inferior version · 4 as programming outputs, 1 as monitor & preview output, 1 as loop
Function Description		
Splicing Output	· Splicing output resolutions can be up to 15360×660@60Hz (horizontal splicing) or 1536×6144@60Hz (vertical splicing) or 4096×2400@60Hz (cross splicing). And the output resolution can be adjusted arbitrarily within this range.	
Four-Window Display	· Render 4 or less images on the screen at the same time, these images can be from the same or different input signals. · Each image can be freely zoomed and arranged. Images can overlap each other.	
Ethernet Monitoring	· Via Ethernet, users can monitor and preview through the KYSTAR software in real time	
Hot Backup	· Users can set the priority of the input signal. When current signal fails, the system will automatically output next priority signal.	
Image-Text Overlay	· Text or pictures can be overlaid on the image through KYSTAR software	
Seamless Transition With Effects	· In case of signal or preset transition, users can choose different transition effects, including: fade in/out, cut, vertical or horizontal comb, round cut-in or cut-out, diamond cut-in or cut-out and cross of every side	
Local monitoring and preview	· Users can preview input signals through the monitor or monitor current output image: 1. Monitor the outputs, showing the same image with the Display. 2. Preview the inputs, showing 6 inputs images in the same time. 3. Monitor and preview in the same time.	
Transparency adjusting and edge feathering	In order to integrate the different layers of image well, KS948E can change the transparency of each windows or achieve edge feathering effect.	
Preset and Calling	· Users can save up to 64 presets of parameters for quick calling.	
Independent brightness control	KS948E can adjust the brightness of each inputs independently so that the user can improve the quality of the specific image without influence to the others.	
Multi-Cascade	· Tow or more device can work together to drive the huger screen.	
Freeze	· KS948E can freeze the displaying video.	
Others		
PC Control Mode	RS232/RJ45 Ethernet	Size (mm)	66(H)×432(L)×256(D)
Weight (Kg)	4	Input Power	100 - 240 VAC, 47- 63 Hz, ≤2A
Work Environment	Temp:0-40℃; Humd:0-95%	Warranty	1 year