Connection Diagram

≤8K

≤2K

LED Display

Ethernet

4K Master
(MCTRL4K or X16)

4K Master
(MCTRL4K or X16)

multi processor
sync cascade

PC

Computer
(4K2K_60Hz)

Blue-ray DVD
(4K2K_60Hz)

LAN / USB / RS 232   DP1.2   HDMI 2.0

100~240V AC

or

HDMI 2.0   SDI / HD-SDI /
3G-SDI   DVI/VGA   CVBS

4K Monitor   PC Graphics Card
(4K2K_60Hz)   HD Camera   Computer   SD camera

Inputs
Outputs
Control

Key Specifications

Inputs

Type	Number	Spec	
HDMI 2.0 (HDCP 2.2)	x 5	HDMI2.0 (CEA-861)	≤4096x2160_60Hz
DP 1.2 (HDCP2.2)	x 3	DP 1.2 (VESA)	≤4096x2160_60Hz
CVBS	x 2	PAL / NTSC	
DVI	x 2	PC (VESA) /CEA-861	≤1920 x 1200_60Hz
SDI (SDI / HD-SDI / 3G-SDI)	x 2	SMPTE 259M-C	480i_60Hz
		SMPTE 292M	576i_50Hz
		SMPTE 274M / 296M	720p、1080i、1080p
		SMPTE 424M / 425M	

Output

Type	Number	Spec
HDMI 2.0	x 2	3840x2160_60Hz
HDMI 2.0 (LoopOut)	x1	3840x2160_60Hz

Key features

Input

◆ 5ch UHD digital interface, including
DP1.2 × 2, HDMI 2.0 × 3

◆ Support 4K2K@60Hz Max, 1080p@60Hz and so on.

◆ Support HDCP1.4/HDCP2.2

Output

◆ 6ch DVI/HDMI output, synchronized splicing, drive
LED with 12 million pixels

◆ Each output, any input signal crop, freely adjust
size and position of output image

◆ User-defined output resolution

◆ Auto calculation mosaic, fast mosaic

◆ Each output can adjust color, RGB and bias ind-
ependently

◆ 13 preset display modes, display mode duplicate,
display mode backup

Image processing

◆ real 10 bit image processing, color more vivid and
natural, color transition more smooth

Others

◆ Genlock syn cascading . if 4 A65 cascading , extend
input to 8K4K@60Hz ,output up to 12K4K@60Hz.

◆ Various methods of setting and controlling, like front
panel button, RS232, USB, LAN,WIFI etc.

◆ Widely applied to small pitch LED display projects.

A65 Series
4K_60Hz mosaic processor

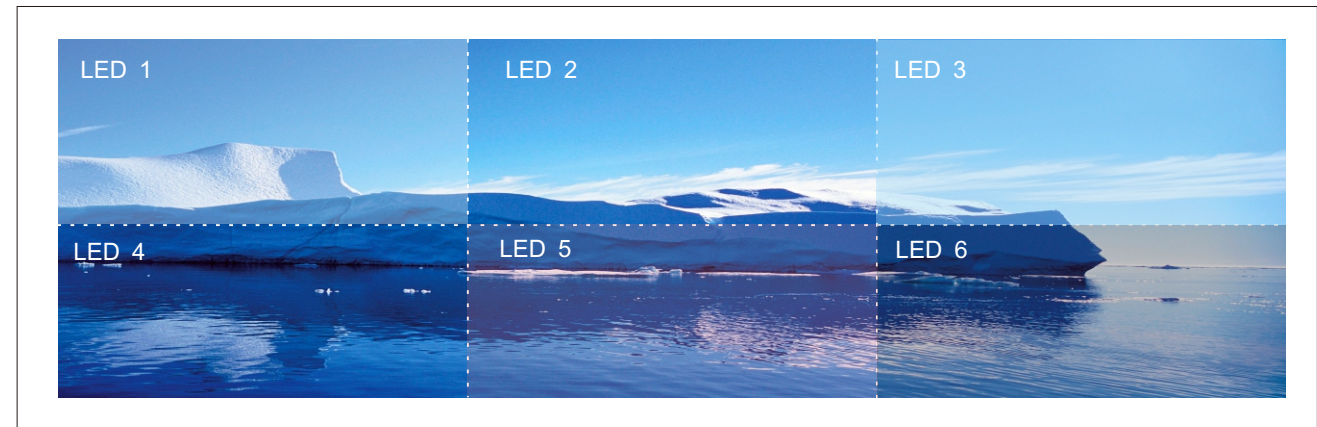## real 10 bit image processing

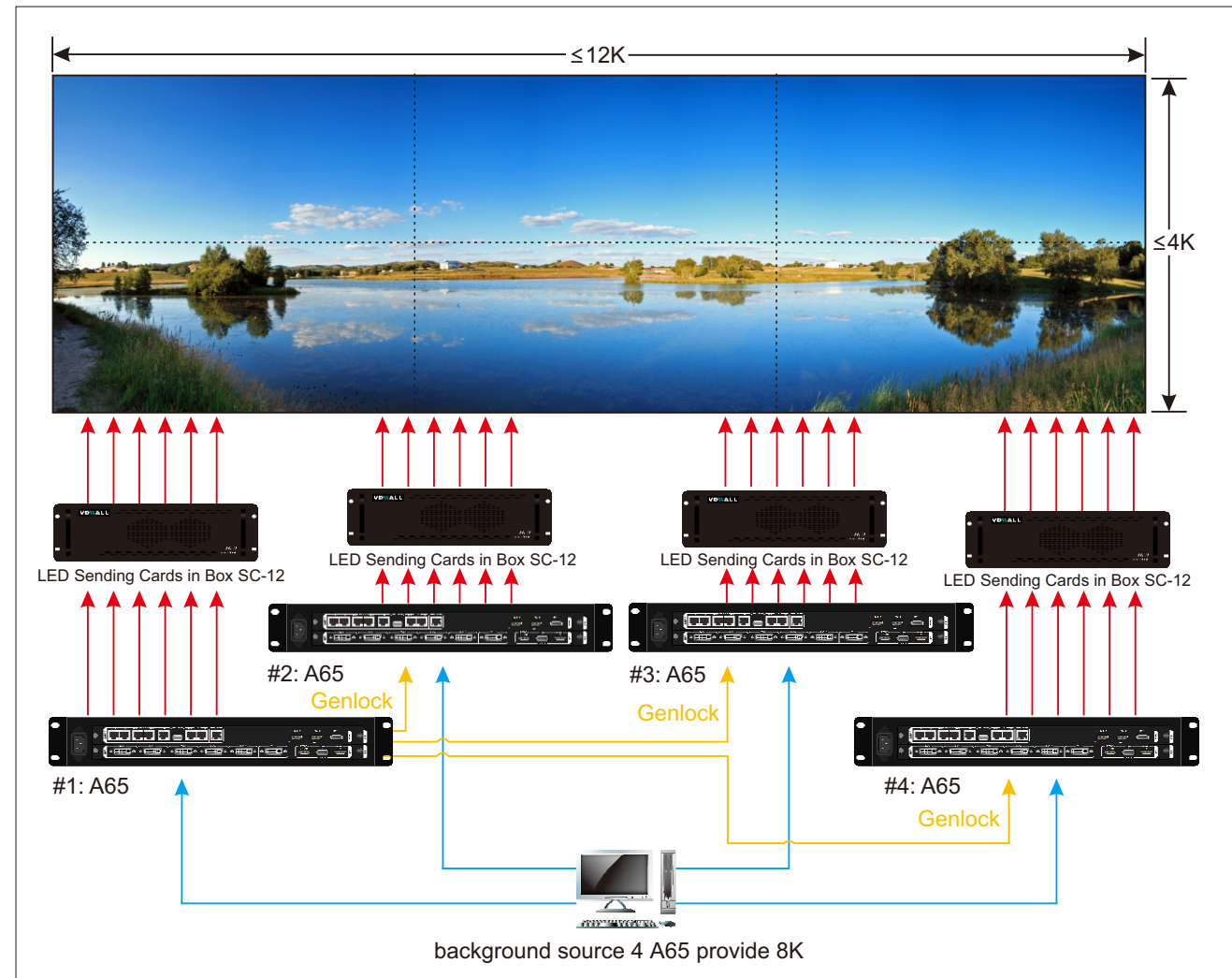10 bit color transition more smooth

8 bit obvious color lost

Description :

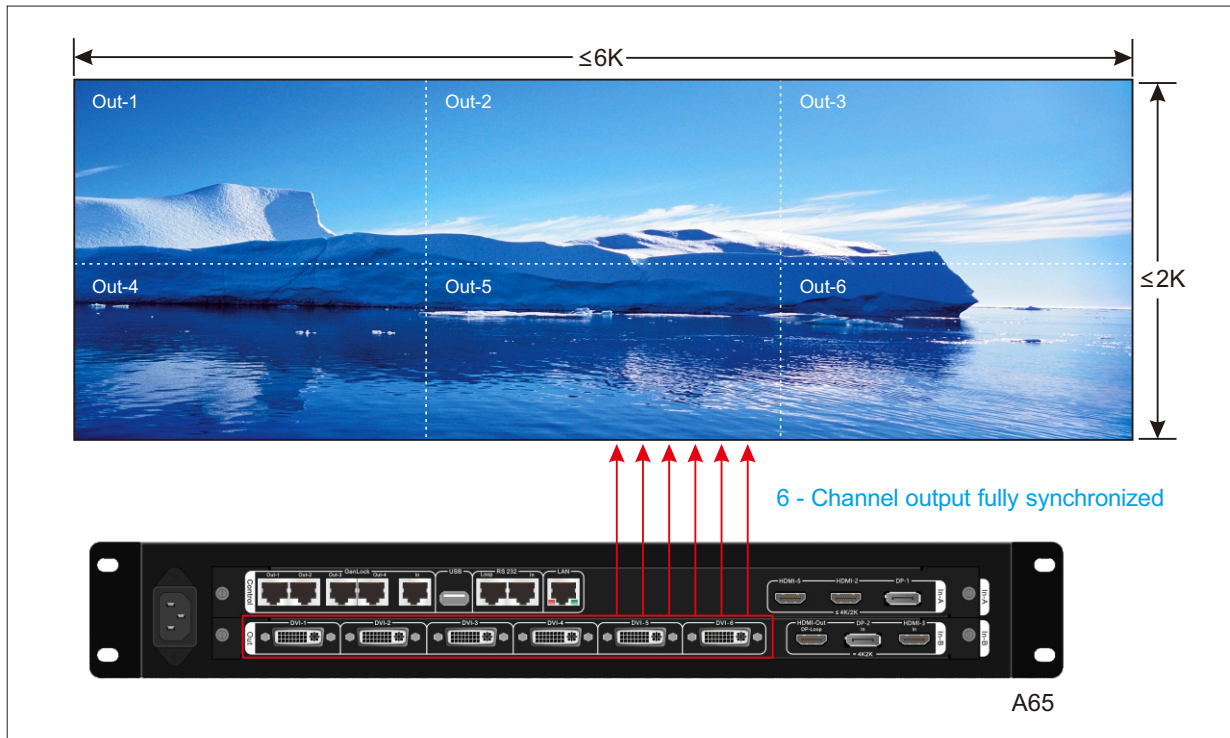◆ color more vivid and natural, color transition more smooth

6 DVI/HDMI outputs, synchronized mosaic, driving capability up to 12 million pixels

≤6K

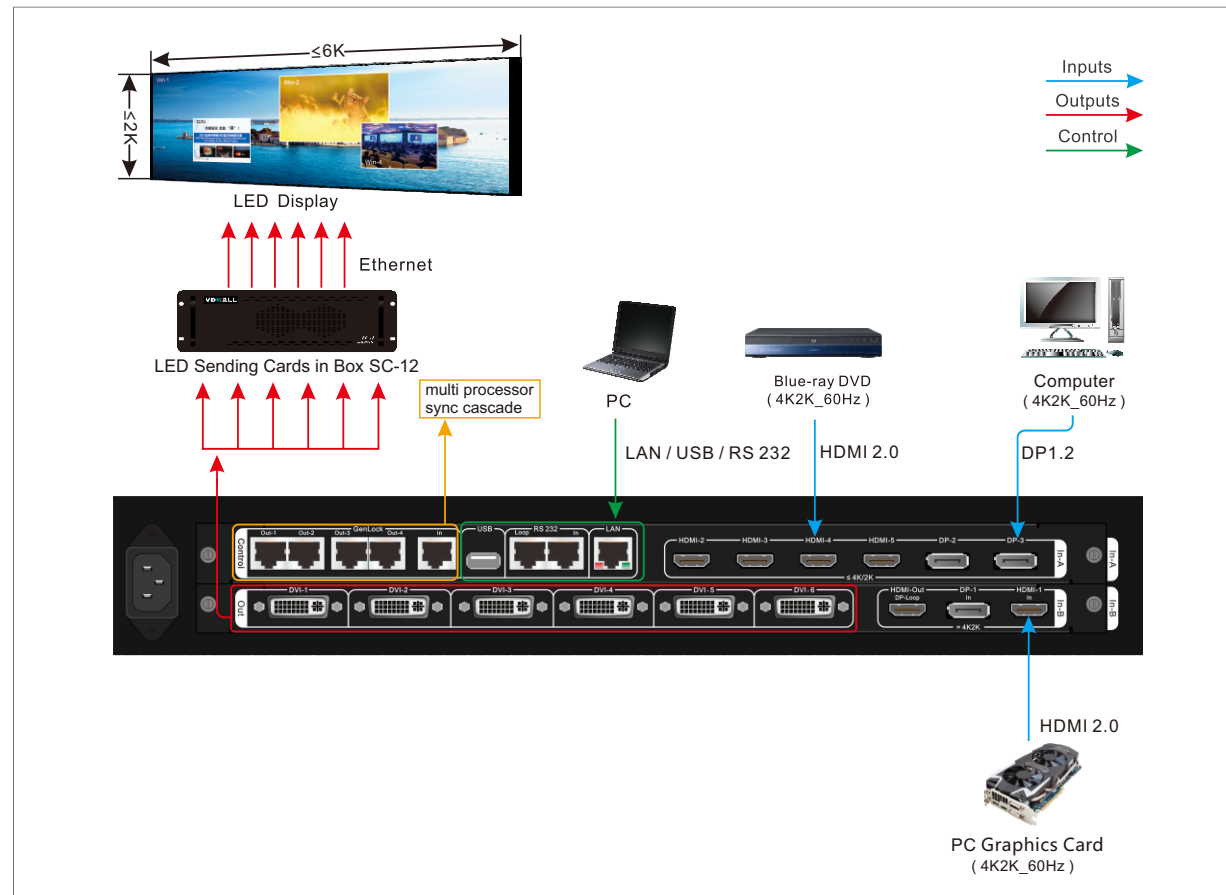| Out-1 | Out-2 | Out-3 |
| Out-4 | Out-5 | Out-6 |

≤2K

6 - Channel output fully synchronized

A65

Description :

◆ 6 outputs, 12 million pixels driving capability. Completely synchronized splicing, smoothly high speed motion picture display without jaggies, tearing or misalignment

Support color gray level adjustment in independent RGB channel

| LED 1 | LED 2 | LED 3 |
| LED 4 | LED 5 | LED 6 |

Hemlock Genlock synchronized splicing

≤12K

≤4K

LED Sending Cards in Box SC-12

LED Sending Cards in Box SC-12

LED Sending Cards in Box SC-12

LED Sending Cards in Box SC-12

#2: A65

#3: A65

Genlock

Genlock

#1: A65

#4: A65

Genlock

background source 4 A65 provide 8K

Connection Diagram

- ≤6K
- ≤2K
- LED Display
- Ethernet
- LED Sending Cards in Box SC-12
- multi processor sync cascade
- PC
- Blue-ray DVD (4K2K_60Hz)
- Computer (4K2K_60Hz)
- Inputs
- Outputs
- Control
- LAN / USB / RS 232
- HDMI 2.0
- DP1.2
- HDMI 2.0
- PC Graphics Card (4K2K_60Hz)

Key Specifications

Inputs

Type	Number	Spec	
HDMI 2.0 (HDCP 2.2)	x 3	HDMI2.0 (CEA-861)	≤4096x2160_60Hz
DP (HDCP2.2)	x 2	DP 1.2 (VESA)	≤4096x2160_60Hz

Output

Type	Number	Spec	
DVI/HDMI	x 6	1200X1960_50Hz	1440X1680_50Hz
		1680X1440_50Hz	1920X1080_50Hz
		1920X1200_50Hz	2048X1200_50Hz
		2160X1160_50Hz	1200x1600_60Hz
		1440x1440_60Hz	1920×1080_60Hz
		1600x1344_60Hz	2160x960_60Hz
		User-defined Output Format	

Key features

D6000 Series
4K_60Hz multi-window mosaic processor

Inputs

- ◆ 12 input ports, support mixed SD(Standard Definition), HD(High Definition)，UHD(Ultra High-Definition) input，including 6 UHD Inputs@ 4K2K_60Hz，HDMI2.0 × 4, DP1.2 × 2 (HDCP1.4 / HDCP2.2)
- ◆ Support maximum resolution up to 4096×2160@60Hz

Multi-window Processing

- ◆ 4 windows 6 images display, random zoom in/out and overlay display
- ◆ 4 windows layers seamless switching and Fade-in / Fade-out switching
- ◆ Any in any out(AIAO) 4K image cropping
- ◆ Windows image frame function, clearly identify different layer
- ◆ Windows image color chroma, RGB gain and bias adjustment

Outputs

- ◆ 16 DVI/DHMI outputs, synchronized joint split, driving capability up to 36million pixels LED screen
- ◆ Any size and position of cropped input and output image on each DVI output
- ◆ User-defined output resolution
- ◆ Adaptive calculation aided splicing, auto calculate mosaic
- ◆ Each output image independently color chroma, RGB gain and bias adjust
- ◆ Synchronous backup, 16 DVI output can be used as 8 main output with 8 backup output

Others

- ◆ 13 preset multi-window display and output mode, support mode duplication and backup
- ◆ Flexible and convenient setup and control from panel button, remote PC control via RS232/USB/LAN
- ◆ Designed and widely applied for various kinds of small pitches LED screen display system