A6000 4K Multi-Window Mosaic Processor

Version	Date	Description	Edit
V1.3	2019.10.12		
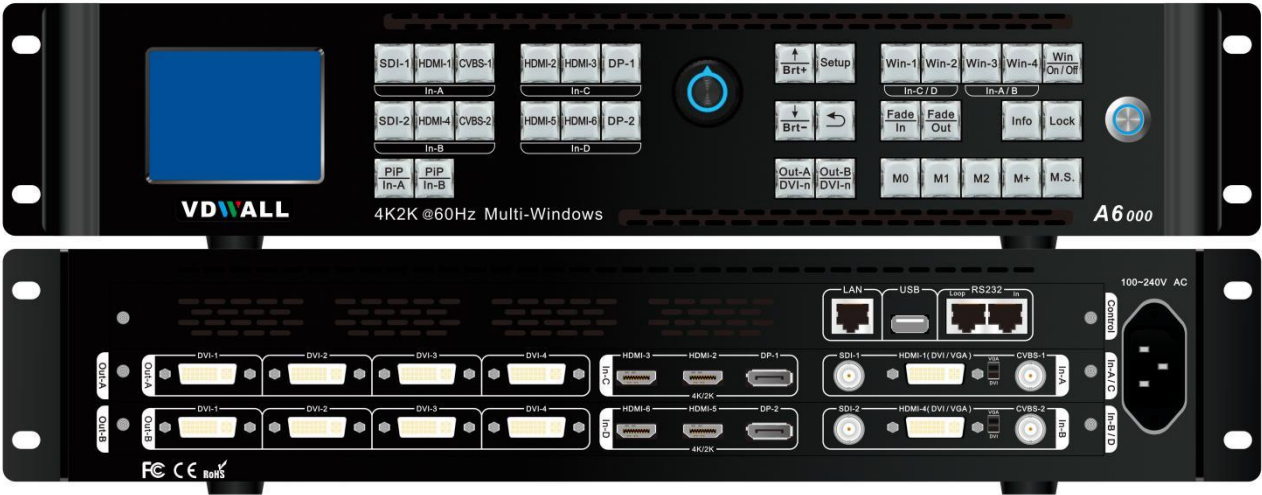
Ⅰ Features

- Faroudja® Real Color®true color processing，10+ Bit Faroudja® DCDI de-interlacing processing，Faroudja® TureLife™ video image augment；

- Versatile input signal：

  6 4K2K_60Hz UHD input，including 4*HDMI2.0（support HDCP2.2）、2*DP1.2；

  6 HD+SD、analog+digital input，including 2 HDMI1.3(compatible with DVI、VGA input)

  2*3G-SDI、2*CVBS；

- Seamless switching and Fade in/Fade out switching between different input signal;

- Support 4K 4 windows 6 images display、4K arbitrary scaling、open window、overlay. 4 windows include 2*4K and 2*2K，freely scale、overlap、roam among 8 unit screen. 2 *2K window support PIP or POP function，total 6 image display simultaneously；

- 8 DVI output，driving capability up to 18 million pixels. Support output resolution 1920× 1080P@60Hz and 8 DVI outputs synchronized splicing，support 7680×2160 screen driving；Support user defined output resolution, maximum 2160 pixels in height or width，8 DVI can drive 17280 pixels in horizon or vertical；

- Each DVI output support any in any out cropping, random size and position setup on LED screen, realize perfect mosaic of irregular screen；

- Each DVI output support colour、gray level、brightness adjustment in independent RGB channel with 256 level, achieve uniform colour of different screen batches；

- Auto calculation aided splicing, user just set the total screen size and unit screen size&position, the device will automatically calculate and complete the splicing, intuitive and convenient；
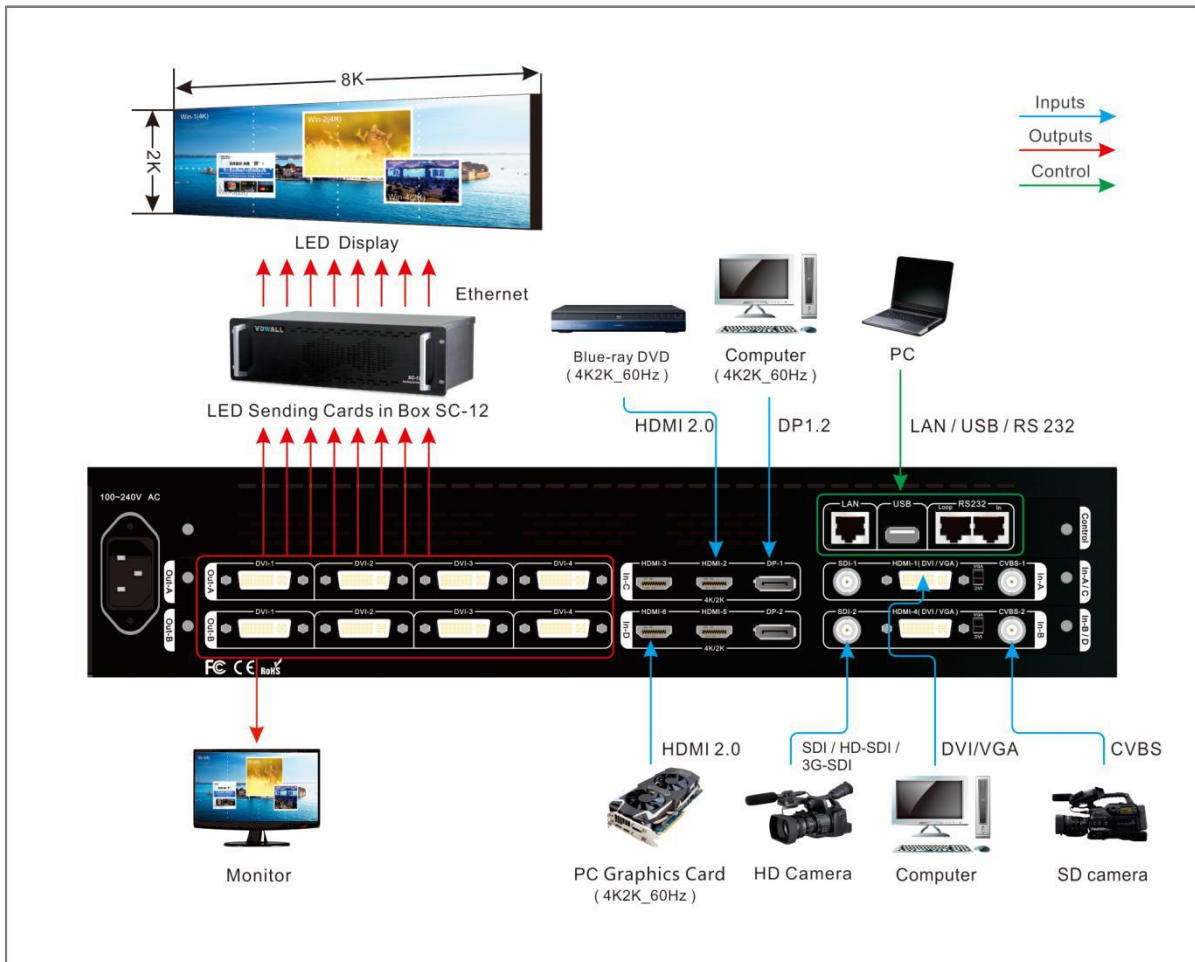
- Multi-Window support vertical cropping, the cropped image remain the same aspect ratio with the source image, avoid image deformation;

- Support 4 windows overlay, layer sequence can be adjusted freely, optional seamless or Fade in/Fade out switching effect;

- 4 windows support image frame function,frame on/off、thickness、colour is adjustable;

- 4 windows support input image quality adjustment, including colour、gray level、brightness in independent RGB channel with 256 level;

- Support output image hot backup, Out A and out B can output same image , greatly enhance output stability;

- Support synchronized monitoring, one 1080P LCD monitor can have a synchronized view of LED screen image;

- 16 preset multi-window display modes, support mode duplication and backup. No black screen or blurred screen during mode switching;

- 16 preset splicing mode of 8 DVI output, mode duplication and mode backup provided;

- Flexible and convenient front panel control, support remote PC control via RS232/USB/LAN

- Designed for small pitches LED screen, widely applied in exhibition、station advertisement、stage performance、restaurant、lecture hall、conference room、school auditorium、church、company promotion etc，；

Ⅱ Specification

Input Signal		
Quantity / Type	4×HDMI 2.0（VESA/CEA-861） 2×DP1.2（VESA） 2×CVBS 2×DVI（VESA/CEA-861）compatible with HDMI1.3a/VGA 2×SDI（SDI/HD-SDI/3G-SDI）	
Composite Video	PAL/NTSC	
Impedance	1V（p_p）/ 75Ω	
VGA	PC（VESA）	≤1920×1200_60Hz
VGA Impedance	R、G、B = 0.7 V（p_p）/ 75Ω	
DVI Format	PC（VESA）	≤1920×1200_60Hz
HDMIP Format （HDCP2.2）	PC（VESA）	≤4096×2160_60Hz
	HDMI2.0（CEA-861）	
DP Format（HDCP2.2）	DisplayPort1.2（VESA）	≤4096×2160_60Hz
SDI Format	SMPTE259M-C SMPTE 292M SMPTE 274M/296M SMPTE 424M/425M	480i_60Hz 576i_50Hz 720p、1080i、1080p
Input Connector	CVBS: BNC/ 75Ω DVI：24+1 DVI_D HDMI: HDMI type A DP： DP connector SDI： BNC/ 75Ω	
Output Signal		
Type/Quantity	8×DVI	
DVI Format	2160X1160_50Hz、2048X1200_50Hz、1920X1200_50Hz、 1920X1080_50Hz、1680X1440_50Hz、1440X1680_50Hz、 1200X1960_50Hz、1200x1600_60Hz、1440x1440_60Hz、 1600x1344_60Hz、1920×1080_60Hz、2160x960_60Hz、 User defined resolution（Maximum 2160 pixels in width or height）	
DVI Connector	DVI：24+1 DVI_D	
Others		
Control Port	RS232/USB/LAN	

AC Power Input	100-240VAC 50/60Hz
Power Consumption	75W
Ambient Temperature	0-45℃
Ambient Humidity	15-85%
Product Dimension	482x465.5x89mm
Package Dimension	560x552x178mm
Net Weight	7.6Kg
Gross Weight	10.8Kg
Standard Accessory	

Ⅲ   Connection Diagram

IV Installation Dimension