



# TW19R

**4K\_60Hz Led Video Processor**



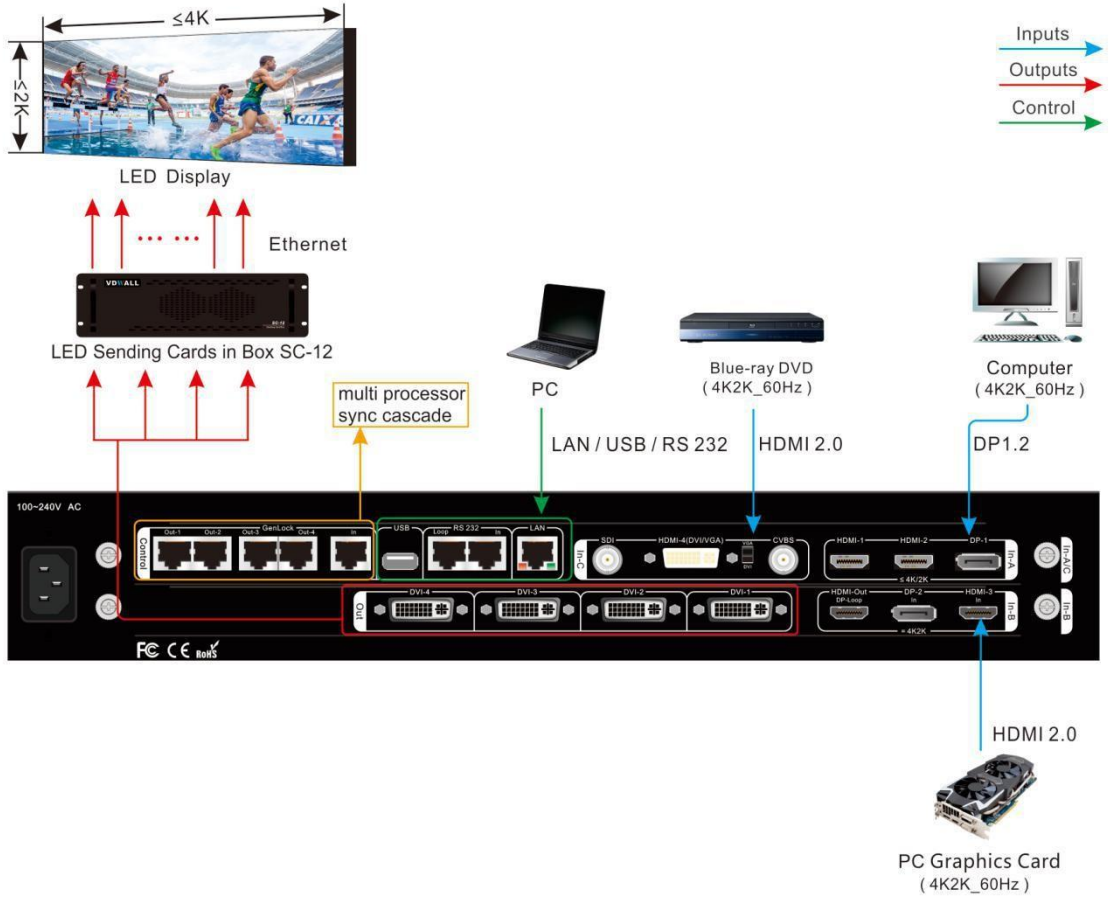
- Faroudja® Real Color® image processing, 10+ Bit Faroudja® DCDI de-interlacing processing, Faroudja® TureLife™ image quality enhancement;
- 5 true 4K2K\_60Hz input ports, among which 3 HDMI2.0(HDCP2.2), 2 DP1.2; 3 2K combined digital+ analogue input ports, including one HDMI1.3 (compatible with DVI, VGA), one 3G-SDI, one CVBS;
- Genuine 12-bit image processing, colour more vivid and natural, gray level transition more smooth;
- 4 DVI/HDMI output ports, driving capability up to 9.2 million pixels. Synchronized splicing of 3840X2160 LED screen, each DVI/HDMI output offers user defined resolution, maximum width or height 2160, 4 DVI/HDMI outputs jointly realize 8640 pixels driving in width or height;
- Any size & position setup of output image and input image cropping, greatly facilitate irregular screen splicing;
- Provides saturation, gray level, brightness adjustment in individual RGB channel with 256 level;
- Adaptive calculation aided splicing, user just configure size and position of each unit screen, TW19R will automatically calculate and apply mosaic parameter, flexible and intuitive;
- Synchronized monitoring available, connect one DVI output to 1080P LCD to monitor 4K input signal;
- Genlock multiple device cascading, extend pixel to pixel display to 8K4K@60Hz or 16K2K@60Hz via 4 cascading;
- 13 preset display modes, support mode duplication and backup;
- Flexible and convenient front panel control or RS232/USB/LAN control;
- Widely applied in narrow pitch screen projects, such as exhibition, station advertisement, stage performance, restaurant hall, lecture room, school auditorium, church, market promotion, etc;
- Each DVI can freely crop input image;
- Calculation supports concatenation, intuitive and convenient;
- Genlock multiple processors cascading;

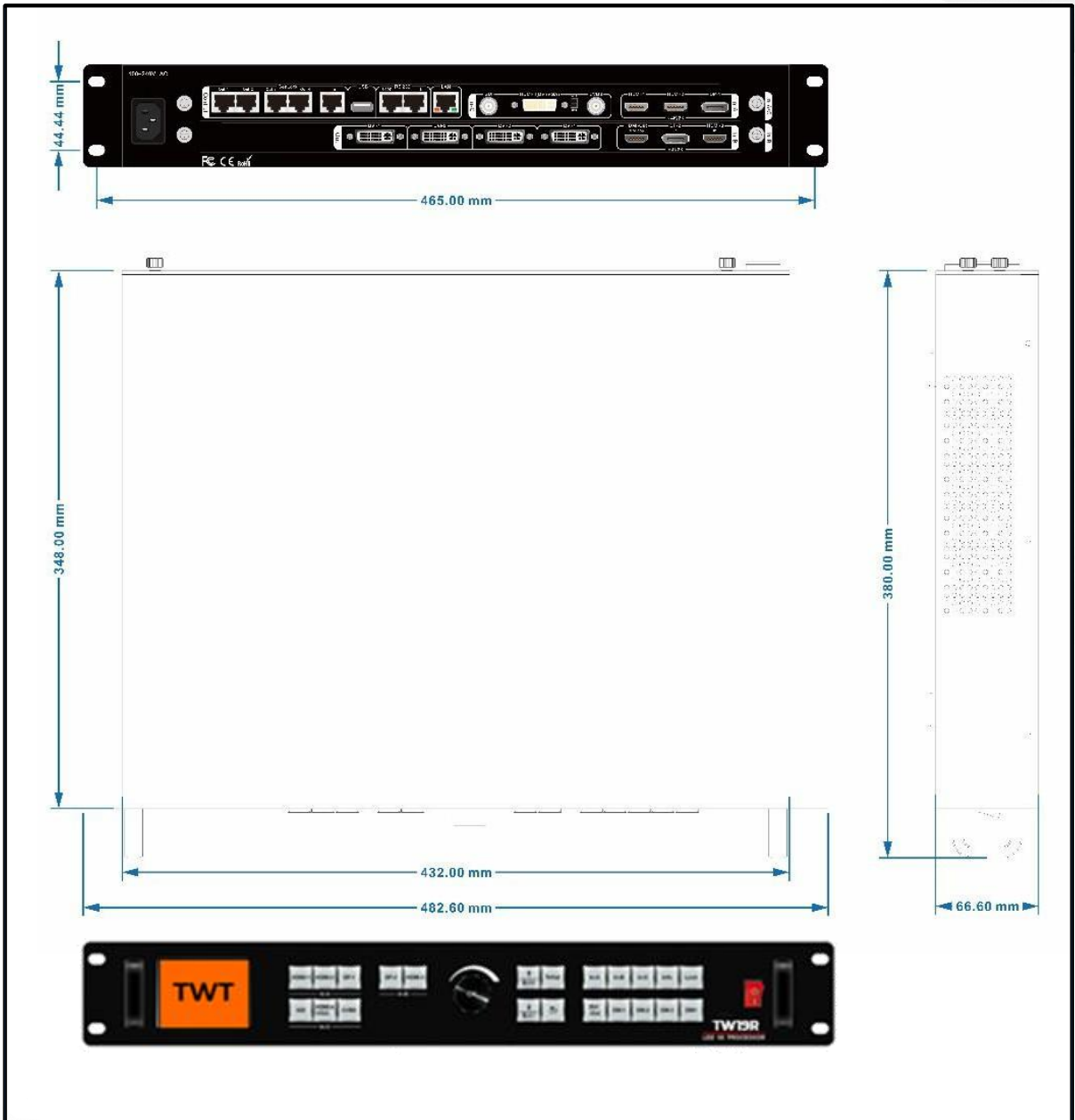
- Total 8 input ports, combined SD (Standard Definition), HD (High Definition), UHD (Ultra High Definition) input channels;
- 5 UHD inputs including HDMI2.0\*3, DP 1.2\*2, maximum input resolution up to 4096K\*2160@60Hz;
- Supports HDCP1.4/HDCP2.2;
- Each DVI output supports infinite scaling, AIAO (any in any output) function is available;
- User-defined output resolution;
- Automatic, intuitive and convenient mosaic support calculation. Each DVI output provides gray level, brightness, colour optimization in independent RGB channel;
- Ability to cascade multi-level synchronization through Genlock function, TW19R's 4 screens cascading expand from pixel to pixel up to 8K4K@60HZ;
- Versatile control method, including front panel button control. RS232. USB. Control TCP/IP;
- Brightness, gray level can be adjusted in independent RGB channel;
- Genlock synchronization connection;
- PC output 4 HDMI 2.0, compose 8K4K@60Hz synchronous signal;
- Seamless input/output signal transitions and fading;
- Supports setting brightness, Gamma, contrast, saturation, colour temperature, etc., low light level and high gray level;
- Integrated test sample;
- Supports pixel point acquisition, real-time display of pixel RGB values at any position in the output window;

<b>Input</b>	
Amount / Type	3×HDMI 2.0 (VESA/CEA-861) 2×DP1.2 (VESA) 1×CVBS 1×DVI (VESA/CEA-861) compatible with HDMI1.3a/VGA 1×SDI (SDI/HD-SDI/3G-SDI)
CVBS Format	PAL/NTSC
CVBS Impedance	1V (p_p) / 75Ω
VGA Format	PC (VESA) ≤1920×1200_60Hz
VGA Impedance	R, G, B = 0.7 V (p_p)/ 75Ω
DVI Format	PC (VESA) ≤1920×1200_60Hz
HDMI 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 480i_69Hz SMPTE 274M/296M 576i_50Hz SMPTE 424M/425M 720p, 1080i, 1080p
Input Port	CVBS: BNC/ 75Ω DVI: 24+1 DVI_D HDMI: HDMI (Type A) DP: DP port SDI: BNC/ 75Ω
<b>Output</b>	
Type/Amount	4×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)
Output Port	DVI: 24+1 DVI_D
<b>Others</b>	
Control Ports	RS232/USB/LAN
AC Power	100-240V/AC ; 50/60Hz
Power Consumption	35W
Ambient Temperature	0-45° C
Ambient Humidity	15-85%
Dimension	482.6(L) x 380(W) x 66.6(H)mm
Package Dimension	535(L) x 475(W) x 145(H)mm
Weight	G.Weight: 8.5Kg, N.Weight: 6Kg

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## CONNECTION DIAGRAM





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