

VIDEO TUBE

VT Series | VT-15 |

2019-V2.0

HIGH FRAME RATE

Frame rate 60Hz, fully meet all kinds of video play requirements, the picture is smooth, no stuck.

HIGH GRAY SCALE

RGB 32768 (3×15bit)

HIGH COLOR RENDITION

Adopt constant current drive, RGB color matching strictly in accordance with white balance requirements. Color temperature can be adjusted by software.

REDUCING LIGHT POLLUTION

The brightness reduction does not affect the display gray scale, reducing light pollution and energy consumption.

ULTRA-LONG TRANSMISSION

Built-in mini receiving card, the signal of each strip can be independently controlled, one signal can carry up to 3840 pixels.

CIRCUIT BACKUP

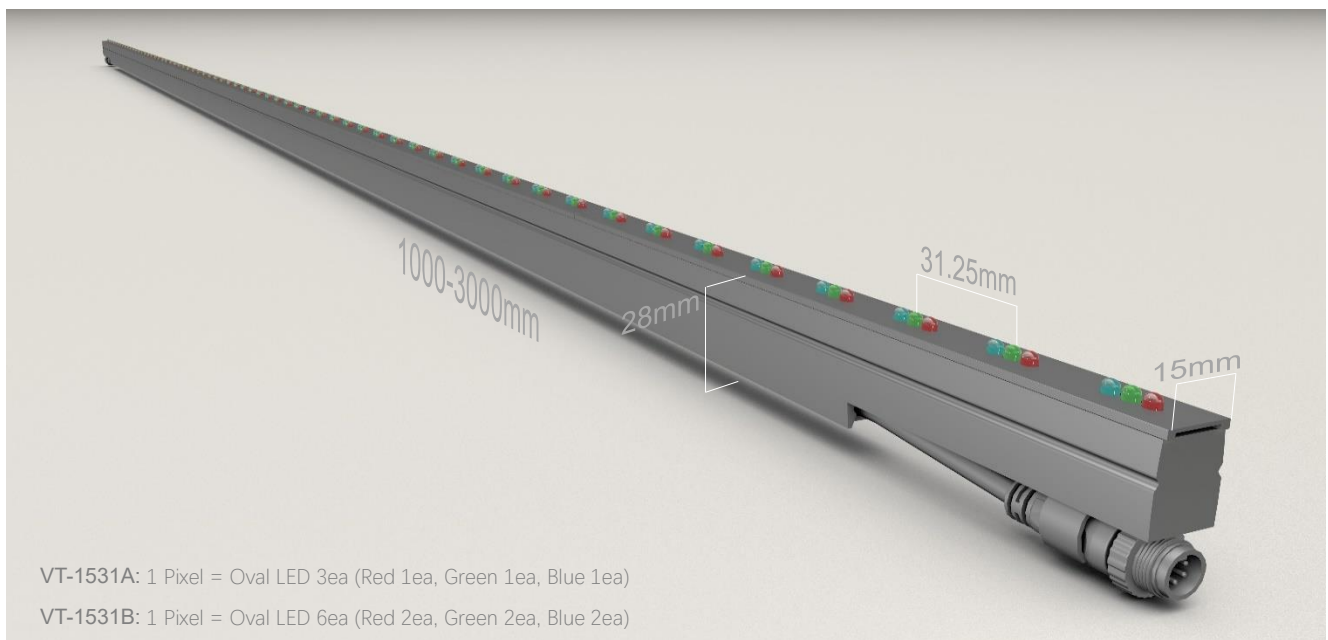
Circuit backup can be added to each channel signal, and backup signal can be switched automatically when the signal is broken.

PRODUCT SPECIFICATIONS

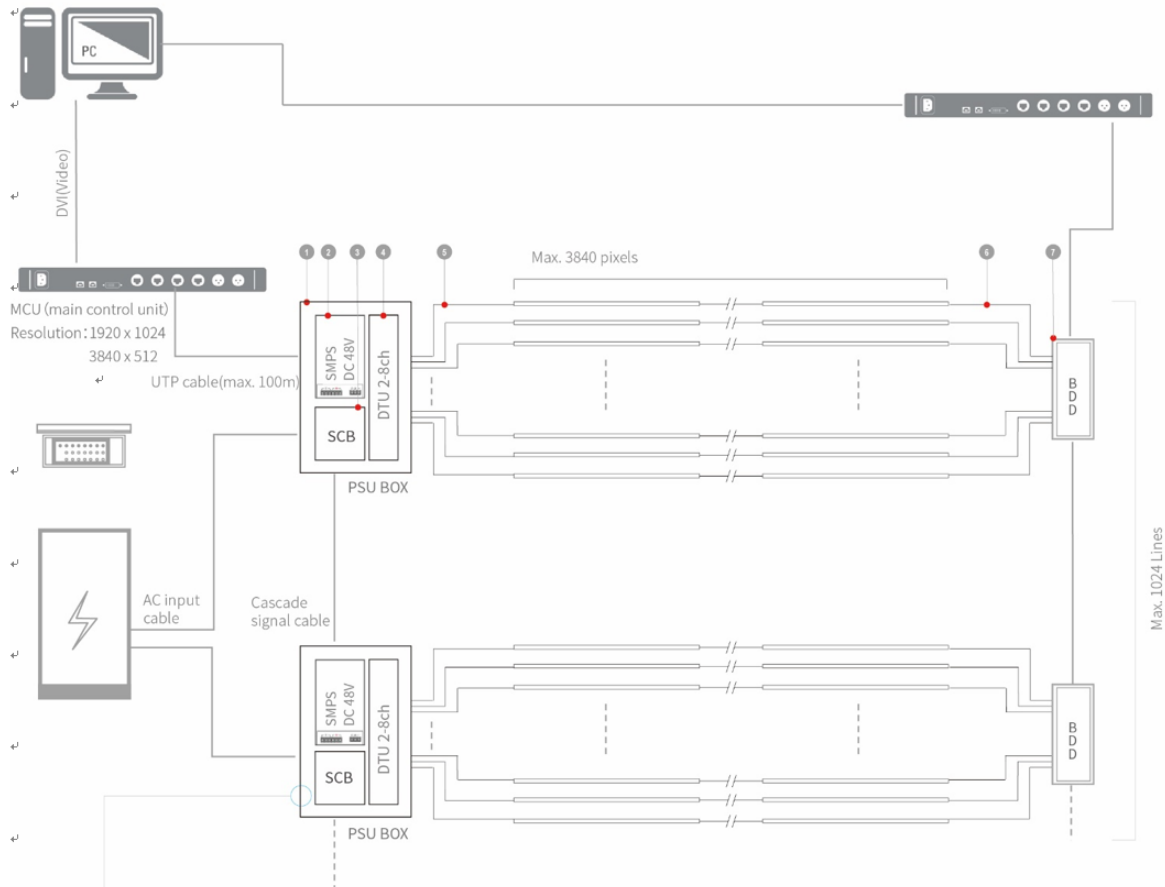
PRODUCT MODEL	VT-1531A	VT-1531B
INPUT DATA	SDI Data	
MATERIAL	Aluminum body & PC Mask (Color can be customized)	
LED LAMP	DIP (1R1G1B) ($R \geq 2000\text{mcd}$, $G \geq 4000\text{mcd}$, $B \geq 900\text{mcd}$)	DIP (2R2G2B) ($R \geq 2000\text{mcd}$, $G \geq 4000\text{mcd}$, $B \geq 900\text{mcd}$)
UNIT SIZE	L : 1000mm-3000mm ; W : 15mm ; D : 28mm (Length can be customized)	
STRIP PERMUTATION	Horizontal Vertical	
PIXEL PITCH	Internal of strip : 31.2mm (customizable)	
BRIGHTNESS	6.5 (cd/dot)	13 (cd/dot)
VIEWING ANGLE	(H)100°×(V)45°	
DRIVE MODE	Constant Current, PWM	
INPUT VOLTAGE	48 V	
MAXIMUM CONNECTION	Signal: 3840 dot (120m) , circuit backup Power: DC48V/10A ($\approx 50\text{m}$)	3840 dot (120m) , circuit backup Power: DC48V/10A ($\approx 30\text{m}$)
POWER CONSUMPTION	Max.8-10 w/m	Max.16-20 w/m
WEIGHT	0.65 kg/m	0.7 kg/m
PROTECTION	IP67	
GREY SCALE	RGB 32768 (3×15bit)	
REFRESH RATE	≥ 3840 Hz	
FRAME RATE	≥ 60 Hz	
WORKING ENVIRONMENT	Temperature: -30°C to +60°C; Humidity: 10%-90%	
APPLICABLE SYSTEMS	VF-A2	

※ Parameters will change according to the specific project

PRODUCT APPEARANCE



SYSTEM BLOCK DIAGRAM (VF-A2)



1 PSU BOX

Model Name: VF-A2-0848-3/ VF-A2-0848-6
Component: SMPS, SCB, DTU
Input Voltage: 100-240V AC
Output Data: 2-8 Port SPI Data
Output Power: 2-8 Port, DC 48V
Protection: IP65

2 SMPS

Power Consumption: 3000W/ea
Output Power: DC 48V

3 SCB (Sub Control Board)

Control Pixels : Max.3840×8 pixels (60Hz)

4 DTU (Data Transfer Unit)

Output Data : 2-8 Port, Power + Data
Output Data: Max.3840 pixels /port (60Hz)
Output Power : 48V DC

5 DC/Data input cable

Cable Type: 2 core signal line + 2 core power line
Length : ≤ 50m

6 Backup Data input cable

Cable Type : 2 core signal line
Length: ≤ 50m

7 BDD Box (Backup Data Distributor)

Model Name: VF-A-BDD02 / VF-A-BDD08
Component : SCB, DTU
Output Data: 2-8 Port SPI Data
Protection: IP65

※ The system configuration mode can be adjusted appropriately according to the specific project requirements.