

# 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

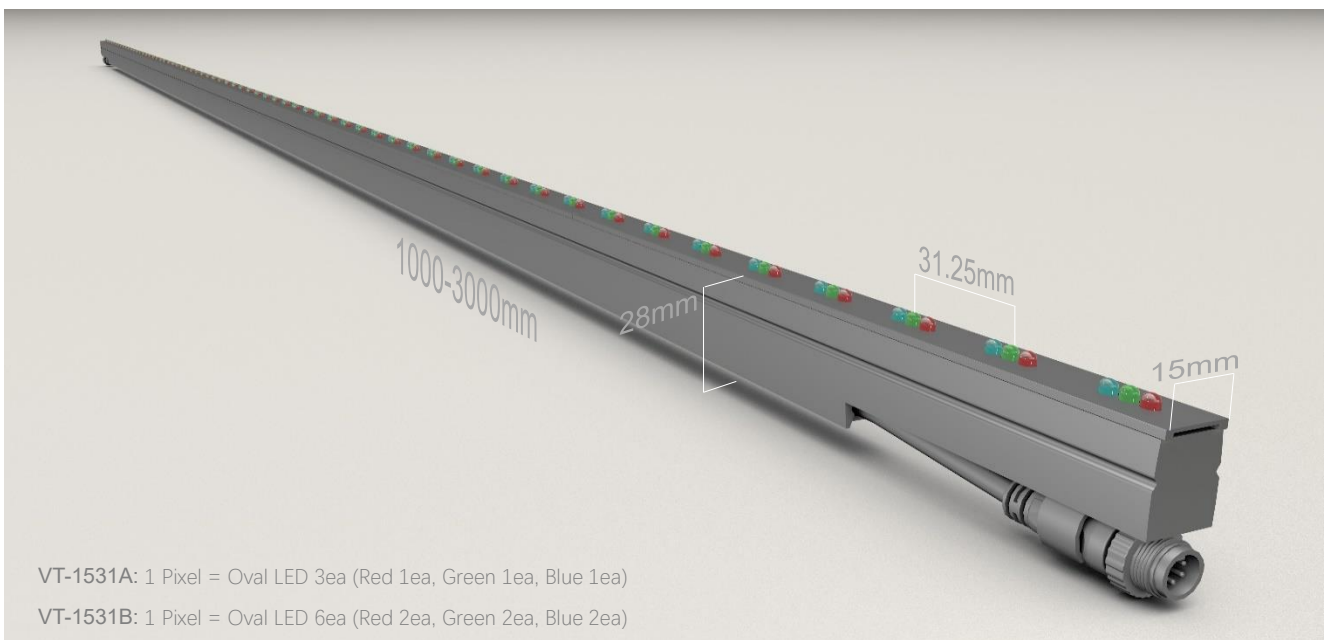
Circuit backup can be added to each channel signal, and backup signal can be switched automatically when the signal is broken.

## PRODUCT SPECIFICATIONS

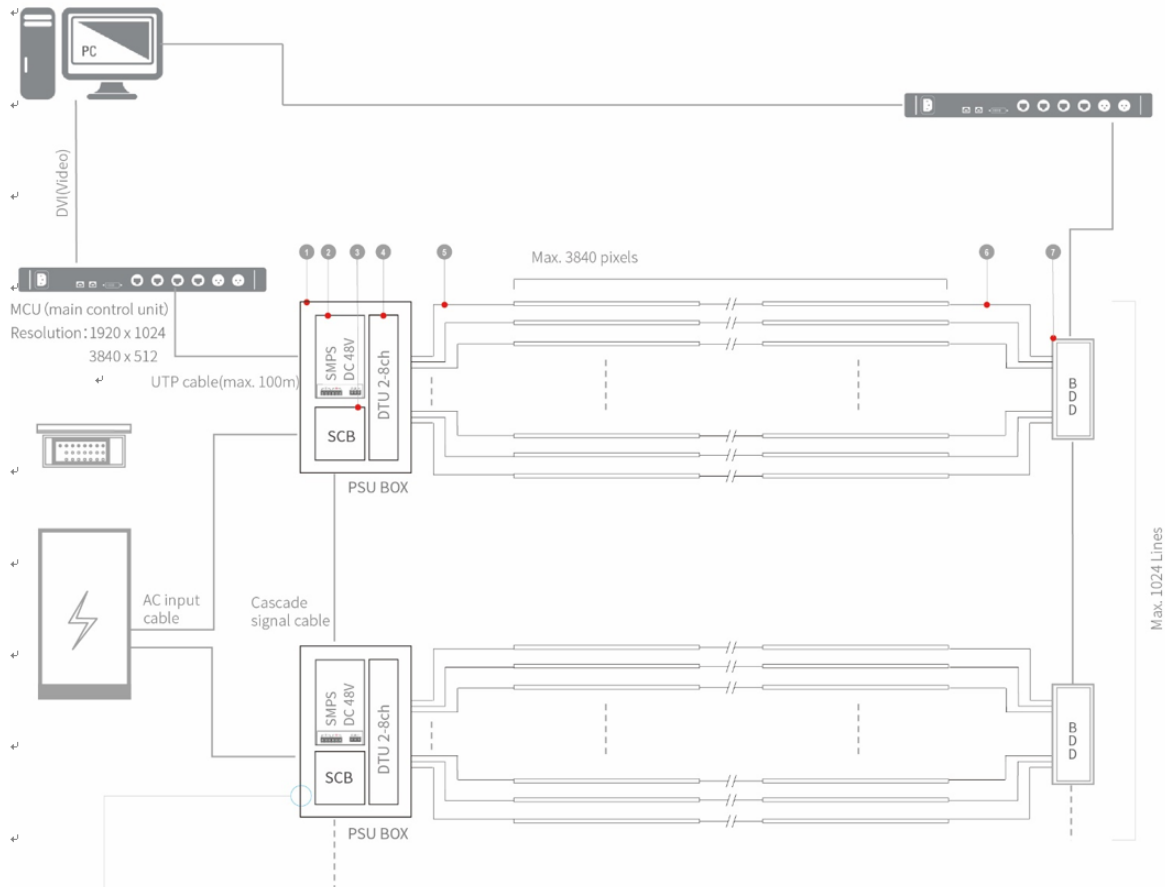
PRODUCT MODEL	VT-1531A	VT-1531B
INPUT DATA	SDI Data	
MATERIAL	Aluminum body & PC Mask (Color can be customized)	
LED LAMP	DIP (1R1G1B) (R $\geq$ 2000mcd, G $\geq$ 4000mcd, B $\geq$ 900mcd)	DIP (2R2G2B) (R $\geq$ 2000mcd, G $\geq$ 4000mcd, B $\geq$ 900mcd)
UNIT SIZE	L : 1000mm-3000mm ; W : 15mm ; D : 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 ( $\approx$ 50m)	3840 dot (120m) , circuit backup Power: DC48V/10A ( $\approx$ 30m)
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	$\geq$ 3840 Hz	
FRAME RATE	$\geq$ 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.