

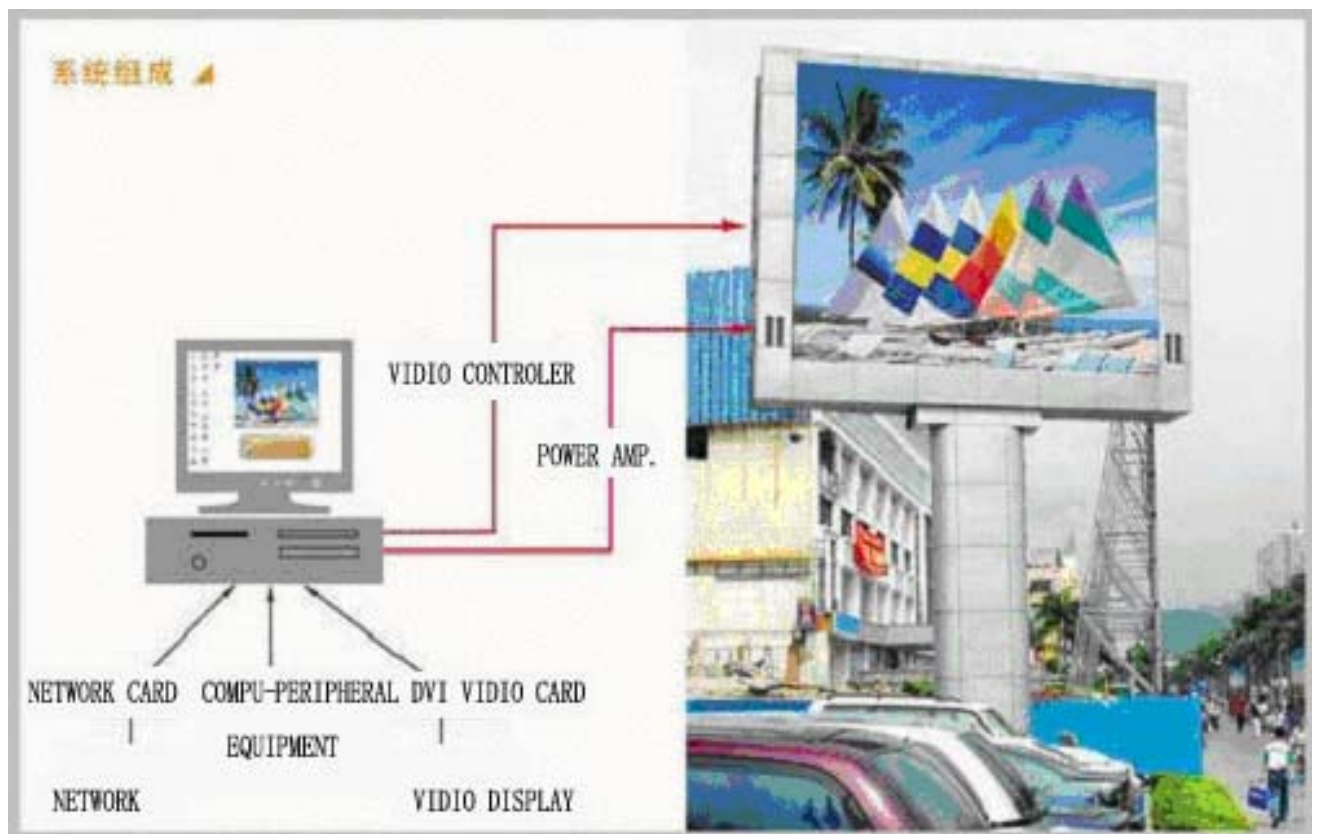


SHULIGHT® LED 户外全彩色视频显示系统

户外全彩屏采用红、绿、蓝三色发光管，每种管各 256 级灰度构成了 16,777,216 种颜色。发光亮度大于 6000cd/m²。The Outdoor full-color display screen adopts three colors of red, green, and blue irradiance tube. Each grade 256 gray degree tube forms 16,777,216 kinds of color. The bright degree of irradiance is over 5000cd/m².

● **全彩色 LED 显示屏控制系统由如下三个主要部分组成 The full color LED display controlling system is made of three main parts as follows:**

- 1、数据采集卡：设计使用了高集成度的采样控制和存储电路，保证了采集卡的高可靠性；可以通过软件调整各颜色的浓度和对比度；可以通过软件定格 LED 显示屏上的画面，也可以通过软件清除 LED 的显示。Data collecting card: It has used sampling control and store the circuit of high integrated level in the design, which guaranteed the high dependability of the card ; it can adjust the density of every color and contrast ratio through the software ; it can decide a dose of LED menu that has of display screen through the software and it can remove the showing of LED through the software too ;
- 2、接收卡：接收采集卡发送过来的数据，含逐点动态色彩补偿电路。Incepting card : Accept the data sent by collecting card, it has every point dynamic color compensate circuit ;
- 3、控制卡：采用全锁存静态恒流工作方式，在提高亮度的同时降低系统发热，在扼制系统电流波动同时有效地控制色温 scan controlling card : the same kind of circuitry board which compatible outdoor' one in fourth scan, one in second scan and the whole static state work way





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- **发光管组成：2红+1纯绿+1蓝。LED composing：2R+1G+1B**
- **虚拟像素显示控制技术**：在实像素发光器件的基础上，采用了像素的复用方式的控制技术，在显示图像时，比相同点数的实像素显示方式的清晰度提高了至少一倍以上，性能价格比极高。虚拟像素屏只需要对应的实像素屏的 1/2 面积，就可显示相同效果的图像，是当今最新 LED 技术和控制理论。例如：P16mm 采用虚拟像素控制技术后，相当于 P8mm 的实像素的显示效果。实像素参数见下表：**Dummy pixel screen**：It adopts compound way of pixel. When displaying photos, its definition increases fourfold than the display way of the same counts pixel and its price of capability is higher. Dummy pixel is with corresponding the ratio of performance to price of real pixel: the price of 10000s point/m² dummy pixel is the same as the one of 15mm 2500 point/m² real pixel; the price of 8264s point/m² dummy pixel is the same as the one of 19mm 2066 point/m² real pixel; the price of 4096s point/m² dummy pixel is the same as the one of 26mm 1024 point/m² real pixel. Dummy pixel screen only needs corresponding one in fourth of real pixel screen to display the same effect of photo, which is the newest LED technology and controlling theory.
- **主要器件类型（红色标记部分为常用规格）Type of main apparatus parts**

显示器件	点间距	实像素 发光点/m ²	实像素 箱体解析度	单元箱体尺寸	应用说明
P12.5mm	12.5mm	6400 点/m ²	64 点 × 48 点	800 × 600mm	适用于 8 平方米以上，观看距离在 6-60 米的显示屏
P14mm	14mm	5102 点/m ²	64 点 × 48 点	896 × 672mm	适用于 10 平方米以上，观看距离在 7-70 米的显示屏
P16mm	16mm	3906 点/m ²	64 点 × 48 点	1024 × 768mm	适用于 12 平方米以上，观看距离在 8-80 米的显示屏
P20mm	20mm	2500 点/m ²	32 点 × 24 点	640 × 480mm	适用于 20 平方米以上，观看距离在 10-100 米的显示屏
P22mm	22mm	2066 点/m ²	32 点 × 24 点	704 × 528mm	适用于 24 平方米以上，观看距离在 15-150 米的显示屏
P25mm	25mm	1600 点/m ²	32 点 × 24 点	800 × 600mm	适用于 32 平方米以上，观看距离在 20-200 米的显示屏
P30mm	30mm	1111 点/m ²	16 点 × 24 点	480 × 720mm	适用于 50 平方米以上，观看距离在 25-250 米的显示屏
P40mm	40mm	625 点/m ²	16 点 × 24 点	640 × 960mm	适用于 80 平方米以上，观看距离在 30-300 米的显示屏

Types	Dot Interval	Density of light point	Each cell size(mm)	Each cell light point	use explain
P16mm	16mm	3906 point/m ²	1024(w) × 768(h)	64(w) × 48(h)	>6 square meter display system
P20mm	20mm	2500 point/m ²	640(w) × 480(h)	32(w) × 24(h)	>10 square meter display system
P22mm	22mm	2066 point/m ²	704(w) × 528(h)	32(w) × 24(h)	>12 square meter display system
P25mm	25mm	1600 point/m ²	800(w) × 600(h)	32(w) × 24(h)	>16 square meter display system
P30 mm	30mm	1111 point/m ²	480(w) × 720(h)	16(w) × 24(h)	>25 square meter display system
P40mm	40mm	625 point/m ²	640(w) × 960(h)	16(w) × 24(h)	>40 square meter display



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● 产品图例 (PRODUCT PICTURE):



● 技术指标举例 (THE DETAILED TECHNOLOGY PARAMETER):

Full - Color of outdoor (Ph16 2R+1B+1G)	
parameter	Data
Pixel element size	12mm
Pixel element Dot pitch	16mm
Pixel element forms	2R+1pure green+1Pure blue
Control mode	Synchronizing display, uses real image when playing picture and Characters time, uses virtual control mode when playing cartoon , to make Pi ctur e finer and smoother.
Pixel element density	3906 Point/m ²
Optimum distance	20m-40m
Display mode	1024×768
Cell -chest aspect	1024mmX768mm, 64PointX48Point
Display color	16, 777, 216 (16Mcolored really)
Grey scale	256 More than level
Service life	more than 100 thousand hours
Continuously work	more than 48 hour
White color temperature	5500K±500
Bright Degree	>5500cd/m ²
Attenuation Degree	4%/Year
Viewing angle	horizontal 70 Degree
Display mode	Characters, image and drawing and video frequency are moved
Video input	Svideo×1 , Composi tex×4
Video frequency format	PAL and NTSC
Scanning speed	more than 240 Frame/Second
Communication method	By way of the mono mode Optical fiber, The communication needs one team of 2 rush pi ths cloth Optical fiber
Whole screen merit rate	The peak value merit rate : 25KW, mean power 10KW' s (broadcasting when moving the drawing)



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Transmitting range	more than 100 Rice (Does not have the relay)
Environmental requirement	Temperature-5 -+70 , Humidity : 10%--95%RH
Work voltage	AC220V±15% , 47-64Hz
The blind spot rate	less than0.001/Year
whole screen degree leveling	< 0.5mm
Interval is assembled to the screen aspect	< 0.5mm
Brightness Adjusts	more than64grades
Drive method : The static state constant current supply	
Control software : Complete voluntarily row sows management software	
Resisted storm ability : more than 10 level , when 10 grades of wind-force effect the screen face, the biggest amplitude of vibration less than3.5cm ;	
Resisted salt mist ability : Fits GB/T 2423.17-93、GB2424.10 ;	
All-weather work : Guard against rain , dampproof, lightning protecting and guards against static electricity	
Three-proofing active session : 10Year	

256级 (8bit) 灰度控制, 大于8192级 (13bit) 视觉非线性校正技术, 恒流驱动。

16777216种真彩色 (24bit颜色控制)

采用虚拟像素显示技术的显示屏比同等实像素显示屏的清晰度提高4倍。

视觉范围宽, 亮度实现软件100级可调。

由显示模块组成箱体, 箱体坚固可靠, 安装方便。

扫描频率1000Hz, 刷新频率60Hz-85Hz与计算机实时同步显示。

驱动板与LED灯板直线插接组成LED显示模块, 无连接线, 运行稳定可靠。

SHULIGHT® Expert On LED Displays