



SHULIGHT® LED 户内全彩色视频显示系统

户内全彩屏采用红、绿、蓝三色发光管,每种管各 256 级灰度构成了 16,777,216 种颜色。Indoor full color screen adopts three colors of red, green and blue light tube. Each tube which is 256 grey scale forms 16,777,216 kinds of color.

● 产品图示 Product Picture



● 全彩色 LED 显示屏控制系统的主要特点 The main characteristic of full color of LED Display controlling system:

全彩 LED 显示屏系统,采用了当今最新 LED 技术和控制理论,使全彩色 LED 显示屏价格更低、性能更稳定、功耗更低、单位面积解析度更高、色彩更逼真丰富、组成系统时电子组件更少、使得故障率降低。The full color of LED display system adopts nowadays the newest LED technology and controlling theory which makes its price lower, capability more stable, power consumption lower, resolution degree of per unit area higher, the color more reality and enrich, electronic parts when composing system fewer, the rate of error reduces.

1、用算法实现的 256 级灰度,设计中使用了颜色变换空间,“逐点动态色彩补偿技术”适合使用纯绿管或黄绿管制作的全彩色 LED 显示屏,该技术使 LED 显示画面的色彩能够保持原图象的绚丽。We use 256 grey scales which realized in sum way and use color exchange space. “Each point dynamic color repairing technology” fits for full color of LED display which is made by using simple green tube or olivine tube. This technology can make the color of LED display menu keep the original photo floweriness.

2、扫描场频达到了 240Hz 以上,画面稳定无闪烁,在实际应用中,用摄像机拍摄显示屏,摄像机中观测到的图象十分清晰,没有同步滚动条,若现场有电视转播,显示屏不会影响转播画面的质量。Scanning frequency has reached over 240Hz which makes the menu stable and no flicker. In using actually, we use vidicon shoot the display screen. And then we can observe the photo is very clear from the vidicon. But haven't in-phase scroll bar. If there are TV rebroadcast on-the-sport, the display screen will not affect the quality of rebroadcast menu.



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- 发光管组成：1 红+1 纯绿+1 蓝。LED composing：1R+1G+1B
- 虚拟像素显示控制技术：采用了像素的复用方式的控制技术，在显示图象时，比相同点数的实像素显示方式的清晰度提高了四倍，性能价格比极高。虚拟像素屏只需要对应的实像素屏的 1/4 面积，就可显示相同效果的图象，是当今最新 LED 技术和控制理论。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, 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.

四、主要器件类型 Type of main apparatus parts (红色标记部分为常用规格)

显示器件	名称	点间距	发光点/m ²	单元板解析度	单元板尺寸	技术说明
虚拟发光管式	P4mm	8.38mm	14240 点/m ²	32 点 × 16 点	268 × 134mm	虚拟技术：2 红 1 绿 1 蓝
虚拟发光管式	P5mm	10.0mm	10000 点/m ²	32 点 × 16 点	320 × 160mm	虚拟技术：2 红 1 绿 1 蓝
虚拟发光管式	P6mm	12.0mm	6944 点/m ²	32 点 × 16 点	384 × 192mm	虚拟技术：2 红 1 绿 1 蓝
三合一表贴灯式	TP7.62mm	7.625mm	17200 点/m ²	32 点 × 16 点	244 × 122mm	每个发光点：1 红 1 绿 1 蓝
三合一表贴灯式	TP6mm	6.0mm	27280 点/m ²	32 点 × 16 点	192 × 96mm	每个发光点：1 红 1 绿 1 蓝
三合一表贴灯式	TP8mm	8.0mm	15625 点/m ²	32 点 × 16 点	256 × 128mm	每个发光点：1 红 1 绿 1 蓝
三合一表贴灯式	TP10mm	10.0mm	10000 点/m ²	32 点 × 16 点	320 × 160mm	每个发光点：1 红 1 绿 1 蓝
三合一表贴灯式	TP12mm	12.0mm	6944 点/m ²	32 点 × 16 点	384 × 192mm	每个发光点：1 红 1 绿 1 蓝
三合一发光灯式	F7.62mm	7.625mm	17200 点/m ²	64 点 × 32 点	488 × 244mm	每个发光点：1 红 1 绿 1 蓝
三合一发光灯式	F10mm	10.0mm	10000 点/m ²	32 点 × 32 点	320 × 320mm	每个发光点：1 红 1 绿 1 蓝

Type of main apparatus parts

Types	Dot Interval	Types of light point	Each cell size(mm)	Each cell light point
P4mm dummy pixel	8.38mm	14240 point/square meter	268(w) × 134(h)	32(w) × 16(h)
P5mm dummy pixel	10.0mm	10000 point/square meter	320(w) × 160(h)	32(w) × 16(h)
P6mm dummy pixel	12.0mm	6944 point/square meter	384(w) × 192(h)	32(w) × 16(h)
TP6.0mm SMD LED	6.0mm	27778 point/square meter	384(w) × 192(h)	64(w) × 32(h)
TP7.62mm SMD LED	7.625mm	17200 point/square meter	244(w) × 488(h)	64(w) × 32(h)
TP8.0mm SMD LED	8.0mm	15625 point/square meter	256(w) × 128(h)	64(w) × 32(h)
TP10.0mm SMD LED	10.0mm	10000 point/square meter	320(w) × 160(h)	32(w) × 16(h)
TP12.0mm SMD LED	12.0mm	6944 point/square meter	192(w) × 384(h)	32(w) × 16(h)

SHULIGHT® Expert On LED Displays