



SHULIGHT® LED Outdoor RGY-Color Display System

1. LED 滚动式可变情报板 display for graphics context information

● 产品图示 Product Picture



● 系统构成 System structure

- 1) 控制机：由一台计算机和曙光专用控制卡构成，负责信息编辑并对屏体进行控制。
Controlling machine: it is made of a computer and controlling card which is special-purpose by SHULIGHT. It is responsible for editing information and controlling the body of screen.
- 2) 显示屏体：由控制电路、驱动电路、电源、发光器件等组成。The body of display screen: it is made up of controlling circuitry, driver circuitry, power, light parts of apparatus.
- 3) 应用软件：显示屏配置的用户软件，可用于对屏幕显示内容进行图文排版操作以及显示屏各种显示功能的控制。Internet applications: the users' software which deployed by screen can use in typeset operating display content and controlling different kinds of display function.
- 4) 特殊软件：用户如有联网或指定数据来源等特殊要求，乙方提供接口协议，用户自行制作联网软件。Special software: if the users have special requirement of connect network or designate data source, Party B supplies with the interface agreement. The users make the connect network soft by themselves.

● 系统图示 System picture





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● 系统功能 System function

- 1) 系统支持 TXT、BMP 等文件，可显示 16×16 至 72×72 点阵的宋、隶、草、行、楷等汉字，及英文、数字、符号等，也可显示简单的平面图画。The system supports TXT, BMP file, etc. It can display 16×16 to 72×72 lattice "song, di, cao, xing, kai, etc" Chinese word, English, number, symbol, etc. It can also display simple plane picture.
- 2) 系统具备脱机运行功能，即在显示内容编辑制作完成并发送至显示屏之后，即可关闭控制机。The system has offline operation function. After editing display content finished and sending to display screen, it can close the controller.
- 3) 显示方式有瞬间、展开、项次等十多种方式。There are over ten kinds of the way of display, such as momentary, outspread, item, etc.
- 4) 显示内容停留时间可在 0-255 秒之间任意调节。The time of staying of display content can adjust arbitrary between 0-255 seconds.
- 5) 可自动循环显示用户所要显示的不同内容。It can recycle automatically display different content the users need.
- 6) 显示内容存储方式有长驻和实时，长驻广告信息在系统断电后可永久保存。The memory way of display content has long-stay, temporary-stay and real time, etc. The long-stay broadcasting information will save permanently after the system power off.
- 7) 显示内容由用户在电脑上设计制作后，通过串口（RS232 或 RS485 接口）发送至屏幕显示。After the users design and make display content on computer, it sends to screen display through bunch mouth (commonly is RS232).
- 8) 信息显示和编辑界面为 Windows 界面，Borland C++ 编程。Information display and interface edit are windows98 interface, using Borland C++ program.

2. 室外双基色视频显示系 Outdoor RGY-Color Display System

● 产品图示 Product Picture



● 系统简介 System Profile

曙光室外双基色视频显示系统是曙光公司针对广场、大型室外公告栏等使用环境而推出的。它采用了分布扫描和模块化设计技术，极大地提高了系统的稳定性，可靠性。显示器件规格有方 10mm、



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方 12mm、P16mm、P20mm、P25mm 等多种像素管 ,显示种类分户外双基色、户外单基色。SHULIGHT outdoor dual basic colors video system was our company tp against using environment to put out the square, large-scale outdoor announcement board, etc. It has adopted the designing technique of scanning and modularization of distributing has improved systematic stability and dependability greatly. The specification of the display device has many kinds of picture element, such as square 10 mms, square 12 mms, square 15 mms, square 19 mms, square 21 mms, square 26 mms, etc. are in charge of with the proper method. It divides outdoor dual basic colors, outdoor single basic color.

户外双基色显示屏每一个发光单元都包含红、绿两种光。红、绿各 256 级灰度构成了 65,536 种颜色；户外单基色屏每一个发光单元只包含一种色（一般为红色）。Each light emitting unit of outdoor dual basic color display includes red light and green light. Red, green grey level of 256 grades has formed 65,536 kinds of colors each; The outdoor single basic color rejects every unit of giving out light and only includes a kind of color(generally red).

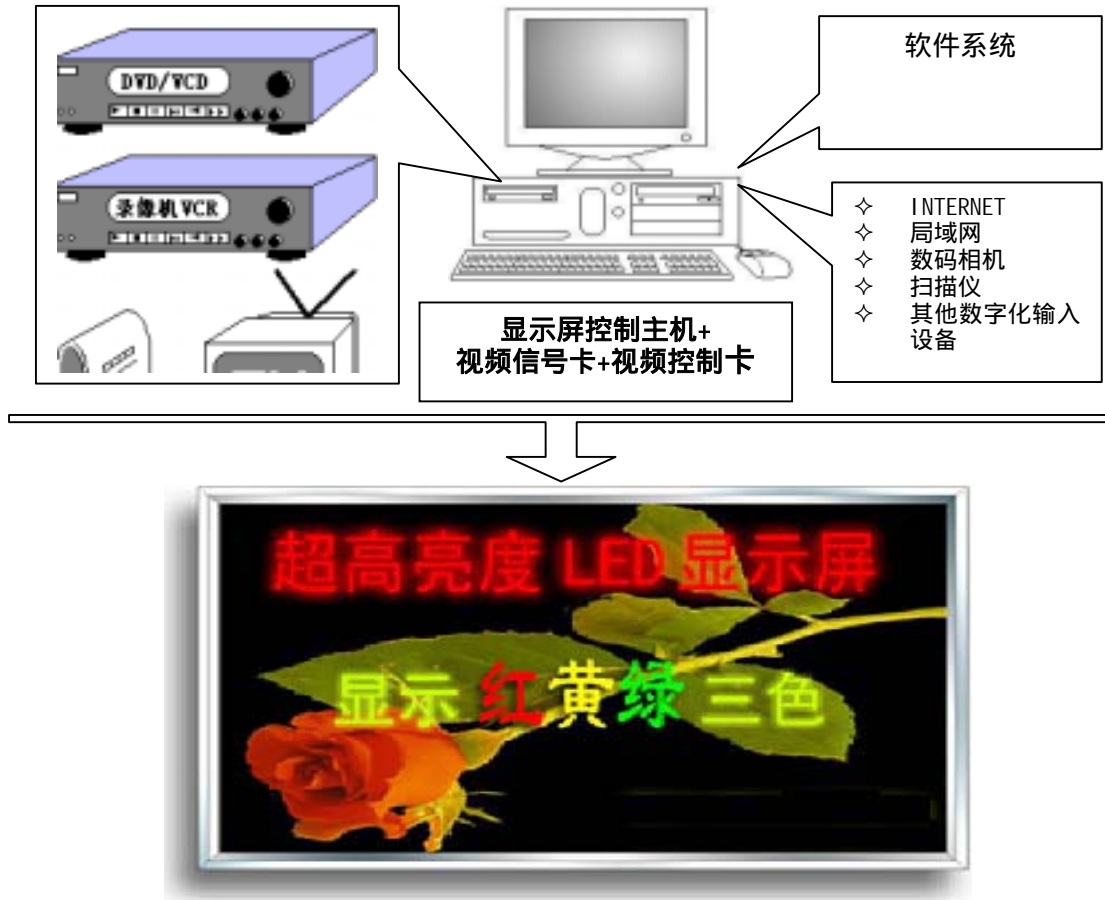
显示屏体以电脑为控制中心，配备先进完善的节目制作及播放软件，电子屏幕与电脑显示器（VGA）窗口某一区域逐点对应，显示内容实时同步，并可方便随意地选择显示画面的大小。户外双基色视频可以接收显示录像机、影碟机、电视机等视频信号。The body of display screen regard computer as the control centre, allocating advanced and perfect program making and playing software, corresponding piecemeal in electronic screen and a certain area of the window of display of computer (VGA), show the real-time synchronism of content, and can be convenient to choose and show the size of the picture at will. The outdoor pair of bases color is looked and rejected and can be received and show video signals, such as video cassette recorder, video disc machine, television, etc.

● 系统特征 Characteristic of system

高亮度 High bright degree	采用超高亮度 LED，距屏 300m 处，阳光直射幕表面的条件下，显示内容仍可清晰可见。It adopts exceed high bright degree of LED, away from the screen 300M, in the condition of sunshine penetrates surface directly, the content is still clear
全天候 Whole day	完全适应室外各种恶劣环境。Completely suit in outdoor all kinds of bad condition
显示效果好 Good effect of display	采用非线性校正技术，图像更清晰，层次感更强。It adopts not line proofread technology, so that the photo is clearer and arrangement is stronger.
可靠性强 Good reliability	采用分布式扫描技术和模块化设计技术，可靠性、稳定性更高。It adopts distributing way of scanning technology and modularization design technology. Its reliability and stability are higher.
显示模式多样化 diversification of display mode	支持多种显示模式。It holds out many kinds of display mold.
操作方便 Convenient operation	通用视频播放软件系统操作十分方便。Currency video play software which makes system operation much convenient.
设计合理 Reasonable design	模块化的设计 ,尺寸任意组合。Modularization design , The size can be combined at will.



● 系统构成 System structure



● 技术指标 Index Of Technology

序号	项目	方 10mm	方 12mm	P16mm	P20mm	P25mm
1	像素管形状	16×8 模组	8×8 模组	16×8 模组	16×8 模组	16×8 模组
2	像素管中心距	11.5mm	16mm	16mm	20mm	25mm
3	像素管构成	1 红色+2 黄绿色	1 红色+3 黄绿色	2 红色+1 纯绿色	2 红色+1 纯绿色	2 红色+1 纯绿色
4	箱体解析度	64 点×32 点	64 点×32 点	64 点×32 点	64 点×32 点	32 点×32 点
5	箱体尺寸	736mm×368mm	1024mm×512mm	1024mm×512mm	1280mm×640mm	800mm×800mm
6	分辨率	7561 点/m ²	3906 点/m ²	3906 点/m ²	2500 点/m ²	1600 点/m ²
7	可视距离	5-50M	8-80M	8-80M	10-100M	20-200M
8	驱动方式	1/2 动态扫描	1/4 动态扫描	静态驱动	静态驱动	静态驱动
9	发光亮度	> 5000cd/m ²	> 5000cd/m ²	> 6000cd/m ²	> 6000cd/m ²	> 6000cd/m ²
10	屏幕寿命	> 10 万小时				
11	通讯距离	<120m (无中继); >120m 后采用光纤				
12	供电要求	AC 220V, 或 380V 三项四线				
13	系统环境要求	-20 ~+45 35%-95%RH				
14	整屏失控点	低于万分之一				
15	视角	水平±60度, 上 15 度, 下 45 度				
16	每平方米重量	80Kg/m ²				
17	最大功耗	600W/m ² -2000W/m ²				



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No.	Item	P11.5mm	P16mm	P20mm	P25mm
1	Pixel tube shape	Squareness 10mm × 10mm	Squareness 12mm × 12mm	Squareness 15mm × 15mm	Squareness 19mm × 19mm
2	Center distance of pixel tube	11.5mm	16mm	20mm	22mm
3	Composing of pixel tube	1R +2YG	1R+3YG	2R+1G	2R +1G
4	resolution degree of box body	64point × 32point	64point × 32point	64point × 32point	32 point × 32 point
5	Size of box body	736mm × 368mm	1024mm × 512mm	1280mm × 640mm	800mm × 800mm
6	Distinguishing ratio	7561point/ m ²	3906 point / m ²	2500 point / m ²	1600 point / m ²
7	Visual distance	5-50M	8-80M	10-100M	15-150M
8	The way of drive	1/2 、 1/4 dynamic scan or static			
9	Screen life	Above 100 thousand hours			
10	Communication distance	With in 100M			
11	Power supply need	AC 220V or 380V three items and four lines			
12	Environment require of the system	-20 ~+45 35%~95%RH			
13	lose control point of the whole screen	Under one in ten thousand .			
14	Visual angle	± 60degree , up is 15degree and down is 45 degree in level direction			
15	Light bright degree	Over 3000cd/ m ²			
16	The Weight of per square metre	80Kg/ m ²			
17	Power consumption	350W/ m ² -1300W/ m ²			

SHULIGHT® Expert On LED Displays