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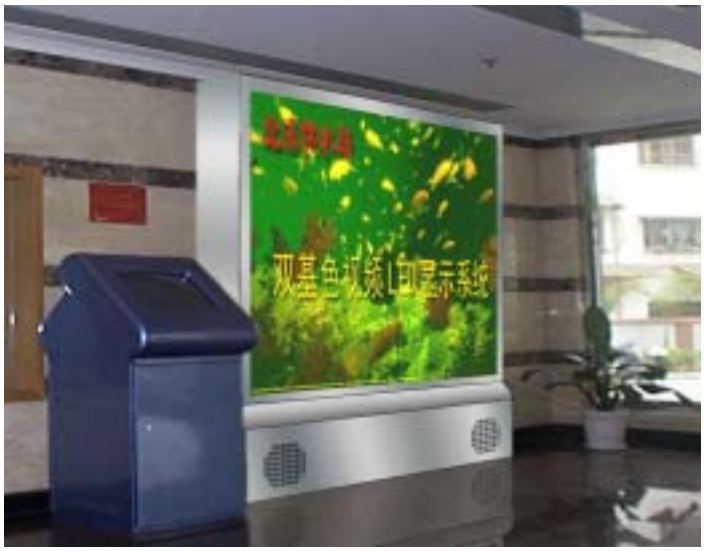
SHULIGHT® LED Indoor RGY-Color Display System

- 产品图示 Product Picture



- .系统简介 System Profile

系统由显示屏、控制计算机、DVI 显示卡、同步控制卡、数据传输线、供电电源、外接设备及系统软件等组成。System consist of display screen , DVI display card, control card synchronism, data transmission line, supply power's power, outer equipment and systems software, etc

1. 显示屏以红、绿色发光二极管作为发光显示元件，与驱动电路、数据处理电路一起组成显示单元模块，从而构成矩阵式的显示屏。相当于放大了的显示器。The display screen makes red and green LED as light display component which with driving circuit, data dealing together make up of display unit module that form matrix type display screen. It is equivalent to zoom out the display

2. 控制计算机是显示屏的专用控制机，内插接 DVI 显示卡、同步控制卡，来实现对显示屏的同步控制，用户可选择各种品牌机及兼容机。Control computer is special-purpose to control machine of display screen, which inserts DVI display card, Synchronism controlling card to realize to the display screen controlled in step, the user can choose various kinds of brand machines and compatibles machine.

3. DVI 显示卡采用数字视频接口的 DVI 显示卡作为 LED 显示屏专用显示卡，具有比传统的模拟显卡更加优越的性能。DVI display card adopts the digital video interface shows the card special-purposely as LED display screen which have more superior performance of display card than traditional simulation.

4．同步控制卡由我公司设计的同步数据采集发送卡，具有数据采集、 色调变换、非线性变换、亮度调整等功能。The control card of synchronism is a data collection delivering card of synchronism which is designed by our company. It has function of data collection, tone counterchange, non-linear varying, luminance adjust etc.

5．数据传输线使用抗干扰能力强的超 5 类双绞线（1 根 8 芯），保证数据在传输中无 错误。Data transmission line uses strong anti-interference ability of exceed the fifth kind twisted-pair (each has eight core) which guarantees the data has no error in the transmit ion.

6．外接设备根据用户要求，可外接其它设备，录像机、影碟机、摄像机、电视接收机等，并支持 NTSC、PAL、Video 等多种制式。如计算机配置声卡，外接功放音箱，可实现音频信号的输出。According to users' requirement, outer equipments can meet other equipments, such as video cassette recorder, video disc machine, video recording machine, television receiver, etc. And it supports many kinds of rules, such as NTSC, PAL, Video, etc. Such as the computer disposes sound card, outer works set sound box which can realize the export of sound frequency signal.

7．供电电源经稳压后，按额定的负载情况，均匀地分接到显示屏的各 个区域，为 LED 显示屏提供安全可靠的电力供应。After the power steady, according to rated load condition, meeting to each area of display equably for LED display to provide with electric power supply on the safe side.

8.系统软件提供 LED 播放专用软件或 Powerpoint 视频播放软件，并承接 其它特殊要求的软件。System software supply with LED plays special-purpose software or PowerPoint and carry on other special required software.

- 系统功能 function of system:

该系统具备如下功能 **This system has function as follows**：

1．可实现 1024x768 显示模式：以计算机为处理控制中心，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，屏幕 映射位置可调，并可方便随意地选择显示画面的大小。it can realize 1024x768 display mode: Regard computer as the control center. Electronic screen Corresponding piecemeal in electronic screen and a certain area of the window of display of computer(VGA), show the real-time synchronism of display content , Screen shine upon position can adjust, and can have been convenient to choose and show the size of the picture at will.

2．真 256 级灰度：显示点阵采用超高亮度 LED 发光管(红、绿双基色)， 实现真正的 256 级灰度，颜色变化组合 65536 种，色彩丰富逼真，红 绿颜色单色浓度可调。Real 256grey scale: display lattice adopts much high brightness LED light tube (dual basic color of red and green) to realize gray degree of 256 grades. Combination of color variety has 65536 kinds. The color is abundant and realistic. The single color chroma of red and green can adjust.

3．扫描场频大于 200 赫兹：使用帧扫描频率 200HZ 以上，有很好的视觉 效果，人肉眼几乎看不出扫描线。Scan frequency is over 200Hz: using over 200Hz frame scan frequency will have good vision effect. People' naked eye nearly can't see the scan line.

4．软件实现伽玛调整:实现了无灰度级损失的校正设计。伽玛校正后仍 然保持每基色 256 级灰度，使图像的色彩柔和、逼真,较好地重现图 像的层次感和立体感。并且其校正参数可由用户自由选择，轻松地 实现各种灰度级调节和亮度控制功能。使 LED 屏在各种环境光线下能呈现出最佳显示效果。the software realize JIAMA adjust: it realizes proofread design of no gray degree grade loss. After proofreading JIAMA, it still keeps gray degree of 256 grades per basic color so that the color of photo is soft, reality and better to recur level sense and three-dimensional effect. Its proofreading parameter can be chosen by users at will so that it can realize breezily every kinds of gray degree grade adjusting and brightness controlling function, which makes the LED screen show the best display effect under ray of different environment.

5．先进完善的节目制作及播放软件：配备先进、完善的控制、制作和 播放软件，易学易用专用程序，所见即所得编辑界面，并具备远程 控制能力，便于非电脑专业人员快速掌握，熟练操作。配备的图文 信息及三维动画播放软件，可播放高质量的图文信息及三维动画， 播放软件的显示方式有覆盖、合拢、开帘、色彩交替、放大、缩小等十多种形式。节目编辑制作软件,可通过键盘、鼠标、扫描仪等不同的输入手段编辑、增加、删除和修改文字、图形、图像等信息。The making and playing software of advanced and perfect program: It allocates advanced and perfect controlling, making and playing software. It is special-purpose program which is easy to study and use. Which you see is the editing interface and possesses the long-range control ability so that it is convenient for non computer professional personnel to master quickly and operate expertly. The allocated graphics content information and three-dimensional cartoon play software, can broadcast them high-quality. The display modes of play software have over 10 various forms of cover, close up, turn on curtain, color replace, enlarge, shorten etc. Software of editing and making program can edit, add, delete and change characters, figure, picture, etc. by keyboard, mouse, scanner, etc.

6．可以接收显示视频信号：如录像机、影碟机、电视机等视频信号。it can receive and display the video signal: such as video cassette recorder, video disc machine, television, etc...

7．系统设计高集成度：系统设计先进、合理，显示效果稳定，安装维 护方便。High integration degree of system design: the system design is advanced, reasonable. The display effect is stable. Installment maintains is convenient.

8．具备计算机开关机自动黑屏功能：通过软件处理，避免了计算机开 关机时，显示界面的杂乱无章。使显示屏处于黑屏状态，提高了显示屏的使用寿命。Possess the switch machine of computer automatic black screen function: through disposed by software, it has avoided the display interface disorderly and unsystematic when switching the computer. And the display screen will at black screen condition so that increase the life of display screen.

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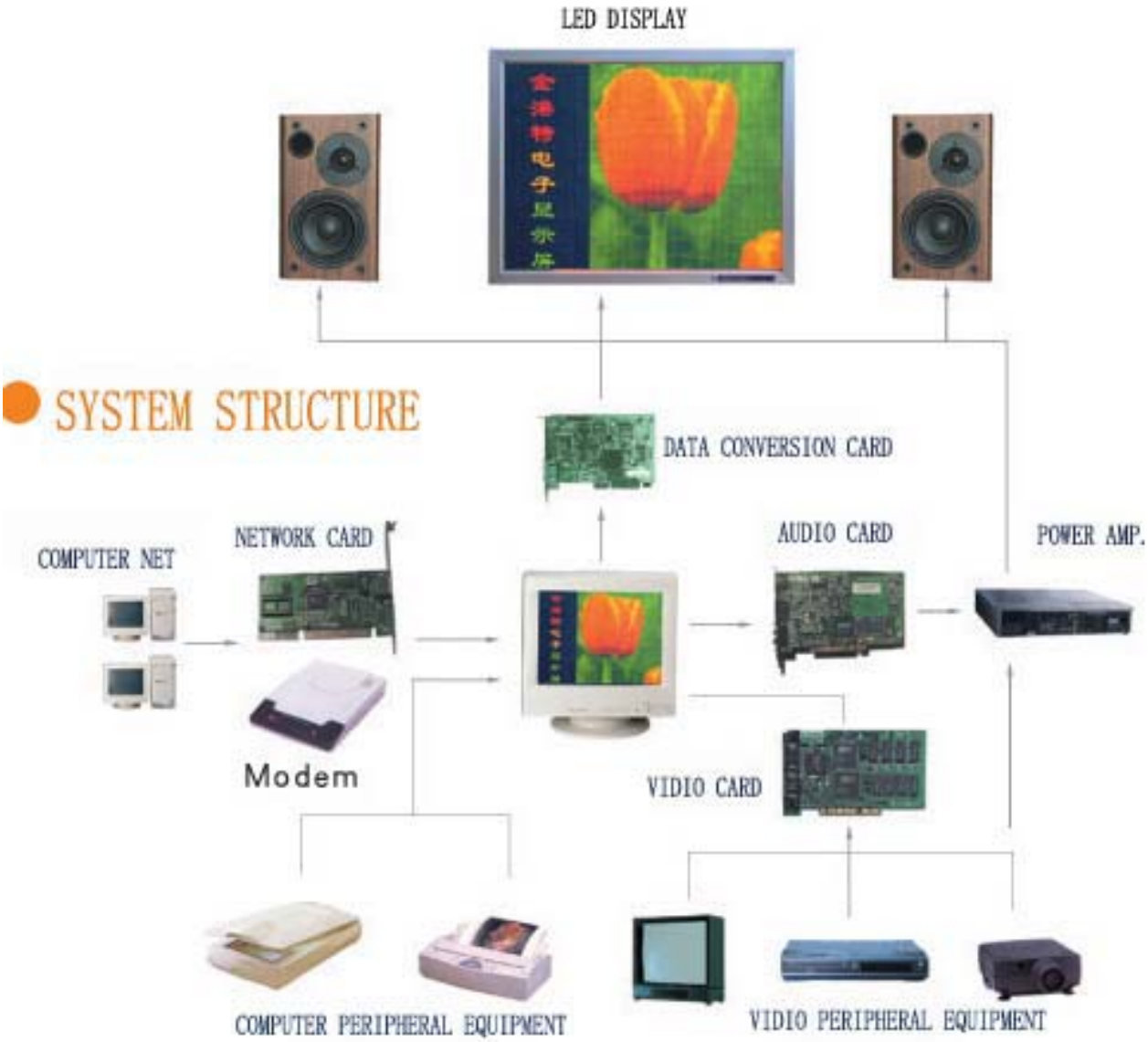
● .系统构成 System structure



● 技术指标 Index Of Technology

序号	项 目	Φ3mm	Φ3.7mm	Φ4.8mm	Φ5mm
1	发光管形状	园形 3.0mm	园形 3.7mm	园形 4.8mm	园形 5mm
2	发光管中心距	4.0mm	4.7mm	6.0mm	7.625mm
3	发光管构成	1 红色+1 绿色	1 红色+1 绿色	1 红色+1 绿色	1 红色+1 绿色
4	单元板解析度	64 点×32 点	64 点×32 点	64 点×32 点	64 点×32 点
5	单元板尺寸	260mm×130mm	305mm×153mm	388mm×194mm	488mm×244mm
6	分辨率	60600 点/㎡	44000 点/㎡	27200 点/㎡	17200 点/㎡
7	可视距离	1.5-15M	2-20M	3-30M	3.5-35M

8	每平方米最大功耗	700W/㎡	500W/㎡	950W/㎡	600W/㎡
9	驱动方式	1/16 动态扫描			
10	屏幕寿命	＞10 万小时			
11	帧扫描频率	＞200 帧			
12	通讯距离	<120m（无中继）；>120m 后采用光纤			
13	供电要求	AC 220V，或 380V 三项四线			
14	系统环境要求	-20℃~+45℃ 35%~95%RH			
15	整屏失控点	低于万分之一			
16	视角	水平±80 度			
17	发光亮度	大于 600cd/㎡			
18	每平方米重量	25Kg/㎡			

Index of technology

Serial number	Item	Φ3mm	Φ3.7mm	Φ4.8mm	Φ5mm
1	Shape of LED	Circle 3.0mm	Circle 3.7mm	Circle 4.8mm	Circle 5mm
2	Center distance of LED	4.0mm	4.7mm	6.0mm	7.625mm
3	Constitute of LED	1 red+1 green	1 red+1 green	1 red+1 green	1 red+1 green
4	Parse degree of unit board	64 point×32 point	64 point×32 point	64 point×32 point	64 point×32 point
5	Size of unit board	260mm×130mm	305mm×153mm	388mm×194mm	488mm×244mm
6	distinguish rate	60600 point/㎡	44000 point/㎡	27200 point/㎡	17200 point/㎡
7	Visual distance	1.5-15M	2-20M	3-30M	3.5-35M
8	Power consumption of per square metre	400W/㎡	300W/㎡	250W/㎡	200W/㎡
9	Way of driver	1/16 dynamic scan			
10	Screen life	＞ 100 thousand hours			
11	frame scan frequency	＞ 200 frame			
12	communication distance	Within 100M			
13	Power requirement	AC 220V or 380V three items and four lines			
14	Requirement of System environment	-20℃~+45℃ 35%~95%RH			
15	lose control point of whole screen	under one in ten thousandth			
16	Viewing angle	＞± 80degree			
17	Brightness	Over 600cd/ ㎡			
18	Weight of per square meter	25Kg/ ㎡			