

Pandora-box

P2s

User manual



Beijing KYSTAR Technology Co.,LTD

Safety precautions



Danger

• There is high voltage in the equipment. Non-professional maintenance personnel should not open the back cover to avoid danger.



Warning

- This equipment is not waterproof equipment, please do waterproof treatment in wet environment;
- This device is not allowed to get close to fire or high temperature environment;
- If the device emits strange noise, smoke or strange smells, unplug the power plug immediately and contact the

dealer.

• It is strictly forbidden to plug VGA, DVI and HDMI signal cables on line.



Attention

1 Please read this manual carefully before use ,and keep it for future;

- 2 this equipment is not suitable for non-professionals to operate and debug, please use under the guidance of professionals;
- 3 this equipment is not suitable for non-professionals to operate and debug, please use under the guidance of professionals;
 - 4 Do not insert anything into the vent hole of the device to avoid damage or accidents to the device;
 - 5 It is not appropriate to place the device on a heat sink or other high-temperature place;
- 6 It is not suitable to place this equipment in near water or other damp places;
 - 7 Please properly organize and place the power cord to prevent damage;
- , the power plug of the device should be unplugged and commissioned for maintenance:
- 8 If the following conditions exist, the power plug of the device should be unplugged and commissioned for maintenance;
- When liquid splashes into the device
- When the device is dropped or the chassis is damaged
- When the device has obvious abnormality or performance is significantly deteriorated

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1.Product Discussion

With the rapid development of the LED display industry and the continuous expansion of application requirements, various control requirements for large-screen control systems came into being. However, due to the limitations of the large screen control system in image processing, picture control and signal format conversion, the LED large screen control system has some weak links that cannot meet the needs of users. The main problems are as follows:

1. The signal source access format of the LED large screen control system is limited. Currently, only digital DVI signals are used. Many signal sources (such as VGA, etc.) cannot be directly displayed on the LED large screen through the control system;

2. The image processing effect of the traditional signal acquisition card is poor, which causes greater loss of the clarity of the picture while converting the signal format;

3. The LED large screen control system can only capture images corresponding to the points of the LED large screen for display, and at some customer sites, it is more casual to display any size or complete computer desktop screen;

4. With the continuous narrowing of the distance between the LED screens and the increasing number of screen points, the era of single-card loading and single-screen display of a single screen will soon cease to exist, and more application requirements and display requirements will be highlighted, LED large screen The control system needs to cooperate better with other peripheral equipment to fulfill the customer's needs.

In response to the above problems, our company independently developed a number of video processing products. The product adopts advanced control and image processing technology, which can not only realize fast and stable switching between signals, but also perform multi-level processing on the picture. In addition, the product can be controlled by the keyboard and PC on the device, and the operation is simple and convenient.

2.Features

①New Kommander PE program editing, drag and drop operation
② 2 Gigabit Ethernet port outputs, support horizontal and vertical splicing
③The whole machine is loaded with 130W points, with a width of 4064 and a maximum of 1536.
④ WIFI, 100M network port, USB direct connection multiple communication methods
⑤ Built-in 8GB (the system occupies 2.5G), U disk can be expanded to 128G
⑥ 3.5mm audio output, synchronous audio and video output
⑦ Support multiple windows and multiple materials to play on the screen simultaneously
⑧ Support low brightness and high gray
⑩ Support DC 3.8°5.5V wide working voltage, stronger adaptability

3.Interface and hardware connection

3.1Panel description



name	Function Description
SYS	P2s running status indicator
	When the FPGA starts, the SYS light flashes at a frequency of 2 times per
	second for 3 seconds, and then turns off, indicating that the FPGA starts
	normally.
	When the frequency flashes once per second, it means that the Android
	is running normally
NET	Connection status indicator
	When P2s is connected to the mobile phone, the NET light is on,
	otherwise it is not on;
	When the mobile phone transfers a large amount of data to P2s, NET
	flashes, 2 times per second;
	When the U disk uploads programs and upgrades, NET flashes quickly, 4
	times per second
PWR	Power indicator, long light indicates normal power supply
WIFI	Wifi hotspot antenna interface,
LAN1-2	Two Gigabit output network ports, connected to all the receiving cards
	of Kystar
AUDIO-OUT	3.5mm Audio output
USB-CFG	Set screen parameters, transmit programs at high speed, and review
	screen information
USB	USB2.0*2, update program through U disk
ETH-100M	100M input network port, access to LAN, can be directly connected to
	the PC
5V DC	Provide 5V/2A power supply

3.2Hardware connection





LED全彩显示屏



4.Software Installation

Insert the accessory CD into the computer CD drive, or download the latest version of the gold card control software from the official website, double-click setup, install and open the software according to the prompts.

During the first installation process, you may encounter the installation of NET environment, Winpcap environment, and USB driver. Just install it directly. If you install it again, you may encounter the problem that Winpcap does not support overwrite installation. At this time, you can ignore it.

Use the supplied USB cable, one end is connected to the COM port of the sending card, and the other end is connected to the USB port of the PC. After communication, the device will automatically connect to the device. After opening the software, as shown in the figure:



5.Software interface introduction

After opening the software, after launching, the following main software interface

appears.



Main functional area: The main functional area includes guide screen adjustment, expert screen adjustment, brightness control, camera calibration, screen monitoring, multi-function card, and video processing. There are 7 main function points. Hardware information: The hardware information uses the sending card as a display unit to display the current sending card model and the receiving card model, and the number of receiving cards per network port of the sending card. The blue connection position can be used to display the connection status of the software and the sending card, and can also be used to switch multiple sending cards.

Topology diagram: The topology structure displays the program version information of the sending device, receiving card, multi-function card, and the ID number of the receiving card in a tree diagram. The "Export List" button can save the current topology information as an Excel file in the form of a topology map, which is convenient for viewing and saving. The "Refresh" button is used to refresh the topology information.

Other functional areas: Other functions in the upper right corner include test charts, skin changes, environmental monitoring, software version information, etc. The "" upward arrow can hide the hardware information and topology diagram, leaving a refreshing main function interface.

6.Screen configuration

The screen configuration includes thinking of wizard screen adjustment and expert screen adjustment.

6.1Wizard screen adjustment

Select the wizard to adjust the screen, you can enter the wizard to adjust the screen page, and quickly complete the screen debugging through the system's guidance.

向导调屏 专家调屏 亮度控制 相机校正 屏体监控 多功能卡 视频处理 硬件信息 拓扑结构 ////////////////////////////////////	
接收卡 品 数 重: 25% 岡口 P1: 23% 岡口 P2: 03% 发送卡编号: N/A 备注: N/A	+
Ab	

6.1.1 Setup Wizard

Click the wizard on the main interface to adjust the screen and enter the welcome interface of the LED setup wizard, click Next.



6.1.2 Confirm the number of receiving cards

After clicking the "Next" button, the system will prompt whether the detected number of receiving cards is correct. If the number is correct, click "Yes", if not, click "No", and check the network cable connection.



6.1.3 Select the module manufacturer and type:

LED设置向导				×
CED设置向导				
选择模组厂家及	类型			
模组厂家: 凯视达	*	搜索:	捜索厂家の	
模组类型:	模组数量:1	模组信	息:	
P4_160x80_40持		模组为	大小: 160W x 80H 文件添加模组	
		11117	5式: 40扫	
		组类型 OE极	四%、2 型:三线并行 智能设置添加模组 性:低有效	E
		LED权	姓:高有效 	
			删除模组	
检测到1张接收卡 详细	信息		< 上一步 下一步 > 取消	

The module library file contains the module lighting configuration files of mainstream manufacturers on the market. You can select the module manufacturer in the drop-down menu or search through the search box on the right.

After selecting the module manufacturer, you can see the currently included module configuration file in the lower list box. After selecting, you can view the detailed module information in the right box, including the module size, driver chip, and scanning method. , Data group number, group type, OE polarity, LED polarity and other information.

Select the module manufacturer and module type. If not, you can use the "Smart Settings Add Module" function button on the right to perform smart settings.

In addition, this interface can manually add module files or delete module files.

6.1.3.1 Smart setting add module

▋ 智能走点参数	配置					-		x
基本参数								
	模组宽度:	64	驱动芯片:	通用				
	模组高度:	64	译码方式:	138译码				
	数据组数:	2	分组方式:	三线并行	•			
						-		-
					下一步 >		取消	

Click the "Smart Settings Add Module" function button for smart settings. Enter the first step of smart setting

According to the specific information of the module, fill in the corresponding information of the module in the first step of the intelligent setting of the software interface:

Module width: the actual width pixels of a single module.

Module height: the actual height pixels of a single module.

Number of data groups: The number of groups of data cables on the module (data import) containing RG/RGB (red, green and blue) data needs to be judged according to the definition of the HUB interface.

Driver chip: Check the driver chip of the module. Generally speaking, it is a 24-pin chip. The driver chip has general-purpose chips, double latches, and PWM chip types. Confirm with the module manufacturer in advance.

Decoding method: Observe whether the LED driver version has 4953 line tubes (8-pin small chips), if not, it is a static screen, and select direct output;

If there is 74HC138 or related decoding chip, choose 138 to decode.

6.1.3.2 Data polarity selection

Select the data polarity of the module, tick the correct state according to the module performance status and prompt, and then click Next to select the OE polarity.

■ 智能走点参数配置		-		x
S				
数据极性选择				
点击状态1、状态2,观察LED模块,选择全亮状态:				
☑ 状态1 □ 状态2				
	〈上一歩〉 下一歩 >		取消	

6.1.3.3 OE polarity selection

Select the brighter state according to the module state, and then click Next to determine the number of module scan lines.

▋ 智能走点参	数配置			-		x
©						
OE极性	先择					
	点击状态1、状态2,观察LED模块,	选择高亮状态:				
	✔ 状态1	□ 状态2				
						22.9
			< 上一步 下一步 >]]]	取消	

6.1.3.4 Scanning lines

According to the number of lines between the bright lines of the module, select the number of lines and then click Next to select the color of the data line.

■ 智能走点参数配置	-		×
\odot			
扫描行数			
根据亮行的行数确定扫描行数:			
亮线的行数: 1			
提示:			
< 上一步 下一步 >		取消	

6.1.3.5 Data line color

Click on the 3 states in sequence, select according to the color displayed by the module, and then click Next

智能走点参数配置					- 0)
数据线颜色						
依次点击以下状态,	根据模组颜色选择对应颜的	<u>a</u>				
☑ 状态1	IN ST	□绿	益	黑		
□ 状态2	<u>I</u> ž	✔ 绿	蓝	二黑		
□ 状态3	☐ \$1	□绿	☑蓝	□ 黒		
	1				上、	

6.1.3.6 Smart tracing

After entering the tracing state, the software will automatically prompt whether to perform automatic tracing, click "Yes" to perform automatic tracing, and click "No" to perform manual tracing, according to the direction of the flashing position of the module

智能走点参数配置					-		x
©							
数据线颜色							
依次点击以下状态,根据模组	颜色选择对应颜色	提示					
☑ 状态1	✓ \$I	? 是否自动推	ā点 ?	二黑			
□ 状态2	□ ≰ <u>I</u>	是	否	二黒			
□ 状态3	∐ \$I	□绿	☑蓝	□ 黑			
				< 上一步 下一步 >		取消	
□ 状态3	□紅	□ 绿	☑ 蓝	□ 黒 <上一歩 下一歩>		取消	



6.1.3.7 Add module

After completing the trace, proceed to the next step to add a module, enter the manufacturer name and module name, and save the module information file to the software system for use in the next debugging.

添加模组	1	×
厂家:	输入或选择厂家名称	Ŧ
名称:	P4_64x64_32扫	
模组信	息:	
wa 知道 招	片: 通用 试: 32扫 数: 2 !: 三线并行 生: 低有效 性: 高有效	
	确定	

6.1.4 Each receiving card is loaded

According to the maximum load setting of receiving card



Number of horizontal modules: the number of horizontally loaded modules of a single receiving card Number of longitudinal modules: the number of longitudinally loaded modules on a single receiving card Module cascading method: module stringing method

Multi-open settings: optional multi-open and triple-open modes

Load points: the load points of the receiving card under the current setting

Maximum tape width: the current module, the maximum tape width supported by the system

Advanced: data group exchange is possible in the advanced interface

Icon: The icon on the right side of the interface can view the loading information of the receiving card. Each red box indicates a module, JP indicates the HUB interface of the receiving card, and the arrow indicates the direction of module cascading.

Data group exchange: Click the "Advanced" button to enter the data group exchange interface, drag and drop the yellow module to perform data group exchange, and then click the "OK" button to complete the data group exchange. If the data group is more complicated, you can enter Go to the "Smart Search" page to view the detailed data set.



Smart search page, you need to check "Enable" to take effect, C means column, R means row, according to the number displayed on the screen, correspondingly written into the software. Quick sorting refers to the entry order of 1, through the pre-selection of the upper left and upper right, you can quickly sort.

6.1.5 screen points

Choose according to the actual cascading mode of the module and click Next to set the large screen points (the actual pixels of the LED screen carried by the current sending card)

LED设置向导				×
EED设置向导				
大屏点数				
● 按模组数量计算大屏	复数	〇 按实像素数里计	-算大屏点数	
横向模组数里:	2 🌲	大屏宽度:	128 🗘	
纵向模组数里:	4 🜲	大屏高度:	256 🗘	
☑ 大屏偏移(设置大屏氛	示内容相对于视频	预输入的偏移)		
大屏水平偏移:	0 ‡			
大屏垂直偏移:	0 🌲			
一一一个 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	言息		< 上一步 下一步 >	取消

Large screen dots: It can be set according to the number of modules or according to the number of real pixels.

Large-screen offset: A single sending card offsets the coordinates to complete the splicing display of multiple sending cards.

6.1.6 Receiving card serial connection

Fill in according to the actual points on the large screen and click Next to set the receiving card stringing method.



6.1.6.1 Smart string

If the display of the conventional string line is not correct, you can select the smart string line and click according to the large screen flash





6.1.6.2 Modify receiving card properties

If the loading of the receiving card is different from top to bottom and left and right, you can use the "Modify" button to modify the loading of the receiving card.

▋■大屏布局设置	-	×
P _{1.1} x,y 📄 ₹ ₽1 ₽2 ₽3 ₽4		

■ 大屏布局设置						-	×
P _{1.1} x,y ⇄ ₽1 ₽2 ₽3 ₽4 🔖		•	0	5	完成		
	接收卡属性		×				
	橫向模组数:		2 ‡				
	纵向模组数:		4 🌲				
	水平位置:	٥					
	垂直位置:	0					
	确定		取消				

6.1.6.3 Whether the display is satisfactory

Choose according to the actual string connection mode of the receiving card. After selection, make sure that the large screen display is normal, and then click Next



6.1.7 Advanced effects settings

If you are satisfied with the display effect, click "Yes"; if you are not satisfied, click "No" to enter the "Advanced Effect Settings" interface.

LED设置向导						×
CED设置向导						
高级效果设	置					
刷新率:	600	•	亮度有效率:	72.70%	• 应用	
输出灰度等级:	14		倍频数:	10倍频	*	1
数据时钟频率:	15.63M	Ŧ	数据时钟相位:	50	-	
最小OE宽度:	16	实际值:16ns	占空比:	50	¢	
换行时间:	1000	ns	换行位置 :	500	ns	
输入帧率:	60Hz	Ŧ				
☑ 色彩还原	一级起友	Ę				
☑ 色彩还原	2 —级起友 <u>详细信</u>	<u></u>		<上一步	下一步 > 取	消

6.1.8 Curing system parameters

Click on the curing system parameters, the configuration information of the control system is solidified into the hardware.



Curing system parameters: curing system parameters to the hardware, and completing the hardware system backup operation, which facilitates the data backup work of one-key repair.

Back up the system parameters to the computer: save the screen file of the system configuration file to the computer to facilitate the file import and system maintenance again.

Click Finish to complete the wizard screen adjustment.

6.2 Expert settings

The expert screen adjustment is divided into three parts, sending equipment debugging, receiving card data debugging, and display screen connection. The basic sequence of commissioning is to receive card parameter settings, display screen connection settings, send card information confirmation, and solidify.

6.2.1 Sending device

置方式		
○常規设置		● 潘多位盒管理
分辨率设置	 参 热点设置 名称: 	🗳 设备IP设置
宽度: 0 高度: 0	密码:	 自动获取PP地址 使用下面IP地址
ジャン	芝 获取	
() 设置	び 设置	1P地址:
💣 时间设置	💞 出厂设置	子网掩码:
系统时间:		网关:
泛 获取		芝 获取
123 同步时间		2 没置

Select Pandora box management: resolution setting; hotspot setting; device IP setting; time setting; factory setting

- 1 Resolution setting: change the actual width and height of the box loaded
- 2 Hotspot setting: modify the WIFI connected to the box
- ③Device IP setting: the box chooses to automatically obtain or manually modify the IP
- (4) Time setting: set play and pause time
- ⁽⁵⁾ Factory setting: box weight

6.2.2 receive card

💛 发送设备		接收卡	显示屏ì	车接(正面看屏)								
<mark>横组信息</mark>													
驱动芯。	片: ICN	2053	模组宽度:	174	扫	描数:	29	数据线颜	色:蓝绿红	模组选择			
译码方:	式: ICN	2012	模组高度:	87	数	据数组	:3	模组抽行	设置	智能设置			
1 单卡带载 —													
宽度	348		多开设置	双开	+	Ø	芯片245版本	A	*	旋转180°			
高度	261		级联方向	从右到左	•					数据组交换			
🤊 效果调试 —													
刷新率:	3	1840	* 3	高度有效率:	70.00%	6	修改						
数据时钟频	页 案: 1	.2.5M	* 1	灰度时钟频率:	17.86M	1	Ŧ						
数据时钟相	1位:		30 🗘 🕯	諭出灰度等级:	14		Ψ						
占空比:			50 🌲 🕴	换行位置:	624		ns						
换行时间:	4	00 实际值:124	ns \$	諭入帧率:	60Hz		Ŧ			更多设置			
🗹 色彩还	原 ☑-	-级起灰	,										
丢失后黑屏											应用	固化接收	Þ
											1		

The receiving card interface is used to debug the receiving card parameters, which can be quickly set through module selection, or add module configuration information through smart settings. If there is a previously saved configuration file, it can also be loaded on this page and sent to the receiving card parameter.

6.2.2.1 Module information

1 模组信息				
驱动芯片: ICN2053	模组宽度: 174	扫描数: 29	数据线颜色: 蓝 绿 红	模组选择
译码方式: ICN2012	模组高度: 87	数据数组:3	模组抽行设置	智能设置

Driver chip: The information of the driver chip of the current module is displayed.

Decoding method: Information display of the current module's decoding method.

Module width: the actual width pixels of a single module.

Module height: the actual height pixels of a single module.

Scanning number: the data scanning number of the current module.

Number of data groups: information display of the number of data groups of the current module.

Data line color: display color

Module draw setting: Irregular module draw use

Module selection (refer to "4.1.3 Select Module Manufacturer and Type" for steps)

Smart setting (refer to "4.1.3.1 Smart Setting Add Module" for steps)

6.2.2.2 Single card load

💼 单卡带载									
宽度	348	多开设置	双开	•	Ø	芯片245版本	A	-	□ 旋转180°
高度	261	级联方向	从右到左	-					数据组交换

The single-card load information section contains the single-card load information of the receiving card. This section can adjust the receive card load information, multi-open mode, module cascading direction, and data group exchange.

Data group exchange: (For steps refer to 4.1.4.1 Advanced settings)

Cascade direction: modify the module data entry direction.

Multi-open setting: The help symbol on the right is displayed in the form of a graphic display to help users understand the wiring rules of the multi-open. As shown in the figure below, more open settings, front view of the screen, JP1 of the receiving card is connected to the upper right corner module, and JP12 is connected to the upper left corner module.

▋▋単张接收卡带载	- ×
注:正面看屏	
JP 12	JP1
JP 11	JP2
JP 10	JP3
JP9	JP4
JP8	JP5
JP7	JP6

6.2.2.3 Effect debugging

Effect debugging is used to debug the overall screen display effect. The screen display effect can be adjusted by adjusting the output gray level, frequency multiplication, and data clock frequency.

刷新率:	660	*	亮度有效率:	79.98%		*	修改		
输出灰度等级:	14	•	倍频数:	11倍频		*			
数据时钟频率:	15.63M	÷	数据时钟相位:		50	÷			
最小OE宽度:	16	实际值:24ns	占空比:		50	÷			
换行时间:	1000	ns	换行位置 :	500		ns			模式
输入肺索・	60Hz	*							

Mode selection: The mode selection is used to display the screen effect using the recommended configuration, which is used for dual latch and PWM chips. The first step is to select the chip type.

ICN系列	SM系列	LS系列	MBI系列	SUM系列	其他
ICN2026	SM16017S	LS9918S	MBI5124	SUM2017TD	通用
ICN2027	SM16159S	LS9929S	MBI5153	SUM2033	DP5220X
ICN2028	SM16207S	SC6618	MBI5155	SUM2035	FM6124
ICN2037	SM16227S				LYD6126
ICN2038	SM16237DS				LYD6168
ICN2038S	SM16237S				
ICN2053	SM16259S				
ICN2058					
ICN2088					
ICND2045					
ICND2055					
ICND2065					

The second step is to adjust the register. Generally speaking, no adjustment is needed.

🚦 更多设置				-	. ×
消影模式	高级模式	手动调节参数 🗌 开启			
消影等级 R G B		16 ‡ 16 ‡ 16 ‡	电流增益 R G B	10 10 10	00 % 00 % 00 %
低灰补偿	R 0 *	G	B 0 ~		
高级模式	效果设置	і <u>ё</u>		应用	取消

The third step is to click "Effect Settings", select effect settings 1, 2, 3, and 4, and then click "OK" to complete the application of preset effect settings, and select a state where the screen effect is relatively good.

■ 效果设置		3	- ×
效果设置1 效果	设置2 效果设	2 登 置 3 効果设置 4 通 定	即消

Low gray optimization: used to optimize the low gray effect of the screen display, check enable, set the low gray brightness measurement level, click "calculate" and "apply" to complete the use of low gray optimization, this adjustment needs to be based on the site It is used in the actual situation, and no adjustment is needed in the normal mode.

亮度测量 🗹 使能			OE校正值	✓ OE校正使能
• 全黑		▶ 0	0	应用
〇一级		1	0	取消
	1 计算	2	0	
○ 二 3 × ○ 四级	_	3	0	
〇五级	▲ 清除	4	0	
〇六级		5	0	

Brightness adjustment: This function uses a patented algorithm to ensure that the effective reduction of screen brightness will not affect the image display effect. The left slider is the adjustment slider, which is used to effectively reduce the brightness of the system. There will be values on the right to follow the changes. The slider on the right is the maximum brightness and efficiency of the system. After adjustment, real-time display, click "OK" to complete.

<u>хн</u> м-	- 9 <u>0</u> 12			
提示:	专利算法保证	降低亮度有效	率不会影响图	象效果
		0-		83.67 🌲 %

Color restoration and first-level graying: adjust the display effect of the current screen, check it, and send it to the receiving card to take effect.

Color restoration can effectively eliminate the redness of human face and make skin color more real;

The first level is grayed to improve the low gray display effect, and the gray level is displayed from the first level of gray.



6.2.2.4 Keep the last frame

The factory default program of the receiving card keeps the last frame by default. If it is not needed, it can be adjusted

by sliding the slider to change the last frame or black screen when the receiving card has no signal

信号丢失后保留上一帧	信号丢失后黑屏	
------------	---------	--

6.2.2.5Receive card data transmission

To receive the data from the receiving card, click Apply to complete the data application for all receiving cards. Right-click the "Apply" button to enter the detailed data sending page, as shown below.

) 所有:	接收卡	◉ 指定接收卡	数据选项 ——	
	D1	-	🗌 仅应用	效果参数
ցը է։	PI		□发送接	收卡位置
;序号:	0		□重置接	收卡位置
	0			

Select all receiving cards or designated receiving cards, the network port number is identified by P1, P2, P3, P4, etc., and the card serial number is identified by 0, 1, 2, 3, etc. 0 identifies all receiving cards of the current network port, 1, 2, 3 represents the specific receiving card serial number of the current network port, and the serial numbers are sorted according to the signal direction. The following picture is the prompt message.

提示	×
0	卡号为0表示发送/固化该网口的所有卡 重置接收卡位置:将所有接收卡的起始位置修改/固化为(0,0),仅支持应用于所有接收卡的场景 发送接收卡位置:根据连线图发送指定接收卡的起始位置 仅应用效果:仅发送/固化指定接收卡的效果参数,箱体、位置参数等不发送 确定

6.2.3 Display connection

专家调屏								×
ダン 发送设备 日前 接收卡 日前 安阪卡 日前 安阪卡	车接(正	面看屏)						
屏1							狚	示屏数目 1
接收卡信息 🛠 单卡设置	G		i 	🔅 卡列数:	6 🗘 卡行数:	4 🌲 🗆 🖪	臺藏走线	复杂显示屏
長寛度: 128 € 卡高度: 384 €		1	2	3	4	5	6	
⁴ 网口选择 2 3 4	1	网口: P1 卡号: C1 宽度: 128 高度: 384	网口: P1 卡号: C2 苋虔: 128 高度: 384	网□: P1 卡号: C3 克度: 128 高度: 384	网口: P1 卡号: C4 克度: 128 高度: 384	网口: P1 卡号: C5 克度: 128 高度: 384	网口: P1 卡号: C6 宽度: 128 高度: 384	
	2	网口: P2 卡号: C1 宽度: 128 高度: 384	网口: P2 卡号: C2 克虔: 128 高度: 384	网口: P2 卡号: C3 苋虔: 128 高度: 384	网口: P2 卡号: C4 宽度: 128 高度: 384	网口: P2 卡号: C5 英愛: 128 高度: 384	网口: P2 卡号: C6 克虔: 128 高度: 384	
	3	网口: P3 卡号: C1 宽度: 128 高度: 384	网口:P3 末号:C2 克虔:128 高度:384	网口: P3 卡号: C3 克虔: 128 高度: 384	网口: P3 卡号: C4 意愛: 128 高度: 384	岡口: P3 卡号: C5 克皮: 128 高度: 384	岡口: P3 卡号: C6 克虔: 128 高度: 384	
智能串线	4	网口: P4 卡号: C1 宽度: 128 高度: 384	网口: P4 卡吕: C2 克虔: 128 高度: 384	网口: P4 卡吕: C3 苋度: 128 高度: 384	网口: P4 卡号: C4 英虔: 128 高度: 384	网口: P4 卡号: C5 宽度: 128 高度: 384	网口: P4 卡号: C6 克度: 128 高度: 384	
							应用	固化屏连接
了一个小学校,这些你们的问题。			Ĥ	R存箱体文件	从文件载入 保存	到文件 备	份全部固住	Ł الم

The connection of the display screen is used to connect the debugged single receiving card into a whole through a certain string, so as to achieve the effect of displaying a continuous picture on the entire screen.

6.2.3.1 Receive card information



The receiving card information contains the loading information of the receiving card. This window is automatically consistent with the loading information of the receiving card page. After stringing the screen, if you need to change the receiving card loading, you can modify it at this location.

6.2.3.2 Fast string



Select the network port number, you can complete the fast string connection of all receiving cards on the screen by selecting the fast string connection method, and you can also use the smart string connection to complete the screen connection.

▋ 专家调屏 x 显示屏连接(正面看屏) 《》》发送设备 接收卡 屏1 泉示屏数目 1 接收卡信息 🖒 🌮 🔣 🔍 🥥 💑 卡列数: 4 🗘 🗌 隐藏走线 6 🗘 卡行数: 复杂显示屏 % 单卡设置 卡宽度: 128 单 卡高度: 384 🌻 4 网口选择 <u> 쩐</u>님: P1 [편금: P1 [편집: P1 [전문: 12] 전<u>日</u>: P1 4 2 3 苋侵: 128 高度: 384 宽度: 128 高度: 384 贲度: 128 高度: 384 苋皮: 128 高度: 384 茂度: 128 高度: 384 茂良: 128 高度: 384 水平串线 见侵:128 高度:384 克尼: 128 高度: 384 觅虔: 128 高度: 384 苋辰:128 高度:384 垂直串线 苋<mark>运</mark>:128 高度:384 苋長:128 高度:384 苋麦: 128 高度: 384 苋度: 128 高度: 384 智能串线 网口: P4 网口: P4 <u> 전</u>日: P4 <u> 전</u>日: P4 见度: 128 高度: 384 苋<mark>度:</mark>128 高度:384 见度: 128 高度: 384 苋<mark>度:</mark>128 高度:384 小窍门>>> 固化屏连接 应用 检测到1张接收卡 <u>详细信息...</u> 保存箱体文件 从文件载入 保存到文件 备份 全部固化 回读

6.2.3.3 Standard display connection

Set the number of rows and columns of the receiving card according to the actual situation of the screen, and then select the network port number to connect the string.

There are three methods for stringing: left-clicking with the mouse, stringing with the arrow keys, holding down the left button, and dragging the receiving card to complete the stringing. Leave blank: After the normal string is connected, click the leave blank button, as shown in the red box in the figure below, to complete the blank setting.



HUB Offset: In the standard display connection, first select the receiving card that needs to be offset, and then click the HUB Offset button in the Tools menu, as shown in the red frame in the figure below, set the HUB port offset in the pop-up box After clicking "Apply", a polyline mark will appear on the original receiving card position. After "Clear" on the HUB offset interface, close the page and the polyline disappears.

1	2		3		4		5		6
网口: P1 卡号: C3 宽度: 128 高度: 384	网口: P1 卡号: C4 茂度: 128 高度: 384	1 清	网口P1	,卡4		-	× 如	1 8 4	网口: P2 卡号: C9 宽度: 128 高度: 384
			Hub口	偏移量	Hub□	偏移量			
网口 <mark>: P1</mark> 卡号: C2	网口 <mark>: P1</mark> 卡号, C5	I	12	0	1	64			网口: P2 士号: C8
宽度: 128 高度: 384	贯度: 128 高度: 384		11	0	2	0		8 4	宽度: 128 高度: 384
			10	0	8	0			
网口: P1 卡号: C1	网口: P1 卡号 C6		Ŧ	0		0			网口: P2 士号 C7
宽度: 128 高度: 384	宽度: 128 高度: 384		9	0	4	0		8	苋皮: 128 高度: 384
			7	0	- ģ.	0			

6.2.3.4Complex display connection

Connect the page of the complex display screen, switch from the standard screen to the complex screen, the data will be automatically imported, by setting the number of receiving cards, and modifying the column starting point, row starting point, width and height of each receiving card, after setting, apply, click The connection of the solidified display screen can complete the data transmission of the complicated display screen connection.

🕅 发送设备 📲 盘示屏	连接(正	面看屏)							
1								显示	;屏数目 1
收卡信息	النخل	E #1.03		*					
♥ 単卡设置	接收	卡颈里:	24	■ 清空列表					⊻ 最余级示
宽度: 128 💲 卡高度: 384 🗘		序号	发送卡	网口	卡号	列起点	行起点	宽度	高度
	×.	1	1	1	1	0	0	128	384
一 网口选择		2	1	1	2	128	0	128	384
1 2 3 4		3	1	1	3	256	0	128	384
		4	1	1	4	384	0	128	384
		5	1	1	5	512	0	128	384
		6	1	1	6	640	0	128	384
2.电线		7	1	2	1	0	384	128	384
		8	1	2	2	128	384	128	384
		9	1	2	3	256	384	128	384
→ ←┛ ┝━┛ ┝━┛		10	1	2	4	384	384	128	384
5 中 4 半 ·		11	1	2	5	512	384	128	384
		12	1	2	6	640	384	128	384
		13	1	3	1	0	768	128	384
] + + L+ <mark>] +]</mark> L+ <mark> </mark>		14	1	3	2	128	768	128	384
		15	1	3	3	256	768	128	384
習能串线		16	1	3	4	384	768	128	384
		17	1	3	5	512	768	128	384
		18	1	3	6	640	768	128	384
<u> 317>>></u>		19	1	4	1	0	1152	128	384
						J.			
								应用	固化屏连

6.2.4 Curing parameters

Single item curing: The connection settings of the sending card, receiving card and display screen are completed, and the corresponding parameters can be individually cured by clicking the curing button of each page. All curing: Make sure that the sending card, receiving card, and display screen connection parameters are all sent correctly. Click all curing to quickly complete the curing of the control system.

6.2.5 Other parameter processing

<	-										
沙 发送设备	1 接收卡	显示	屏连接(正面看原	祥)							
模组信息											
驱动芯片	┽: 通用		模组宽度: 64		扫描数	(: 32		模组选择			
译码方式	式: 138译码		模组高度: 64		数据数	组:2		智能设置			
前单卡带载											
宽度	128		多开设置 无	•	Ø						
高度	384		级联方向 从	右到左 🔹				数据组交换			
┦效果调试 ──											
刷新率:	660	•	亮度有效率:	79.98%		修改					
輸出灰度等	级: 14	•	倍频数:	11倍频							
数据时钟频	率: 15.63M	-	数据时钟相位:		50 🕻						
最小OE宽度	£: 16	买际值:24ns	占空比:		50 .						
换行时间:	1000	ns	换行位置 :	500	r	s		模式洗择			
输入帧率:	60Hz	•									
✓ 色彩河0	夏 ✓ —级起旋							低灰优化			
	**								ک.m	III (LANIL	
;去天后保留上	— YQ						 		应用	凹化接收	ζ.

6.2.5.1Load from file:



Load the saved configuration file

6.2.5.2 Save to file

If you want to save the current receiving card/sending card/display connection wiring diagram, you can select "Save to File" to save it to the local computer, which is convenient for later maintenance and retrieval at any time.

发送设备	最示屏连接(正面看屏)					
🖥 模组信息 ————————————————————————————————————						
驱动芯片:通用	模组宽度: 64	扫描数: 32		模组选择		
译码方式: 138译码	模组高度: 64	教据 教组:2		智能设置		
→ ∧∧ ⊢ +++ ≠0	■ 另存为		×			
	← → ~ ↑ <mark> </mark> « 桌面 > 加载文件	~ ∂ 搜索"	如载文件" 오			
茂度 128	组织 ▼ 新建文件夹		HH - (2)			
高度 384	■ 图片	^	修业日期 米刑	数据组交换		
🖁 效果调试						
			2018/8/30 19:59 SUREEN			
刷新率: 660						
输出灰度等级: 14	🛀 Windows (C:) \vee <		>			
	文件名(N): test.screen		~			
数据时钟频率: 15.6:	保存类型(T): Screen文件(*.screen)		~			
最小OE宽度: 16						
	∧ 隐藏文件夹	保	将(S) 取消			
换行时间: 1000	ns 换行位置: 500	ns		模式決择		
输入帧率: 60Hz	*					
				低灰优化		
⊻ 色彩还原 ⊻ 一級起加	κ					
弓丢失后保留上一帧					应用	固化接收·

6.2.5.3 Backup (provided that it has been cured):

Each receiving card has the parameters of the sending card/each receiving card; each sending card has the parameters of the sending card/each receiving card.

20 发送设备	接收卡	显示屏连接(正面看照	≩)				
■、 抽 模组信息 ——							
驱动芯片:	通用	摸组宽度: 64	扫描数:16	数据线颜色:红绿蓝	模组选择		
译码方式:	138译码 7	摸组高度: 32	数据数组:2		智能设置		
副单卡带载 ——							
宽度 1	.92	多开设置 无	• @				
高度 3	84	级联方向 从右到左	•		数据组交换		
》 效果调试 ——			提示	×			
刷新案:	840	▼ 直度有効案・	1 · · · i 🔴	各份成市中			
-101491				H 177744471.			
輸出灰度等级	: 14	▪ 倍频数:	141倍频	· 确定			
数据时钟频率	: 15.63M	▼ 数据时钟相位:	50 \$				
最小OE宽度:	16 实际值	:48ns 占空比:	50 \$				
格行时间,	1000	nc 協行位罢。	500 ps				
预11110.	1000	19 1开11页型。	1300		模式选择		
输入帧率:	60Hz	•			低灰优化		
☑ 色彩还原	✓ 一级起灰						
号丢失后黑屏						应用	固化接收书
A second second second second				保友箱休文件 基文件裁入	保友到文件 各份	全部因化	同读

6.2.5.6 Read back

0

After the device is successfully connected, you can read back the connection parameters of the sending card/receiving card/display screen that was last cured

You can also read it back through the expert screen.

7.Software operating environment monitoring

金测	×
DESKTOP-D83LF66 '020 {漆: Microsoft Windows NT 6.2.9200.0 Intel(R) Core(TM) i7-7700HQ CPU @ 2.80GHz 已安装 已安装 译案: 1920x1080 評网络: 是 2G 子正在使用	*
	v
刷新	

Software operating environment monitoring is used to monitor whether the current computer software operating environment is normal, whether the drivers have been installed normally, and whether the computer hardware configuration has reached the minimum standard for software use.

KYSTAR × ÷. -...... 屏体监控 专家调屏 亮度控制 相机校正 多功能卡 视频处理 向导调屏 硬件信息 拓扑结构 发送卡1 发送卡型号: S4 接收卡型号: 12 Ports Card 接收卡总数量: 1张 ▲ 发送卡设备 018.09.28 10:00(ARM: 2018.09.28 12:00) x 提示 ▲ 发送卡1 2018.08.29 18:00 ID号: a0041805-10072426 接收 发送卡1,网口P1:1张 发送卡1 没有检测到更新 发送卡1,网口P2:0张 发送卡1,网口P3:0张 发送卡1 确定 发送卡1 发送卡1,网口P4:0张 导出列表 刷新

7.1 Detect new version

The function of detecting the new version is used for online upgrade of the debug software of the KTV control system.

The final version of the software update is consistent with the official website. At the same time, the latest KTV control system debugging software can also be obtained from the "download center" of the KTV official website.

8. Program upload

① The mobile phone and the box are connected to the same local area network and uploaded using the mobile phone APP

- 2 PE export file, U disk upload
- ③ PE is directly connected to the local area network and network cable
- (4) Connect the mobile phone to the hotspot of the box and use the mobile APP to upload

For more service and support, please pay attention to Beijing kystar official Wechat!

