Two in One Controller With 2 Network Port (DG)

Manual



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.



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;

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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I、 Product discussion

II、 With the rapid development and application demand of LED display industry, various control requirements for large screen control system emerge as the times require. However, due to the limitations of the large screen control system in image processing, picture control and signal format conversion, there are some weak links in the large screen control system of LED, which can not meet the needs of users. The main problems are as follows:

1. The signal source access format of large LED screen control system is limited. At present, only digital DVI signal is commonly used. Many signal sources (such as VGA) can not be displayed directly on the large LED screen through the control system.

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

3. The large LED screen control system can only capture the corresponding points of the large LED screen for display, while in some customer sites, it is necessary to display any size or complete computer desktop screen at will.

4. The large LED screen control system can only capture the corresponding points of the large LED screen for display, while in some customer sites, it is necessary to display any size or complete computer desktop screen at will.

In view of 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 switching between signals quickly and steadily, but also process multi-level pictures. In addition, the product can be controlled by keyboard and PC computer on the device, which makes the operation simple and convenient.

\Box , Product characteristics

1.Supports independent operation of the control panel, and the design of the knob and numeric keys makes the device easier to use;

2.Support PC software control to achieve visual and fast operation;

3.Support fade in and out perfect switching;

4. Support brightness, contrast, and enhance image display;

5.Supports arbitrary zooming of the screen size (the screen can be adjusted point by point, the minimum can be reduced to one pixel);

6.Support motion compensation, no smearing on the screen;

7. Support noise reduction processing to reduce noise and stains;

8.Support 5 channels of high definition SD video input, 2 channels of network port output (SV4 is 4 network port output);

9.Supports up to 1920×1080 input resolution, 1.3 million custom output resolution, up to 3840, up to 1536;

10.Support retransmission configuration and readback configuration function, no upper computer can achieve maintenance;

11.Support keyboard lock function to prevent misoperation of field personnel after construction and commissioning;

12.Supports saving and invoking of five scene modes;

13.Support navigation (smart settings) shortcut settings;

14.International 1.5U standard height, easy to carry and install;

III, Technical indicators

The video processor adopts the latest patented video processing technology, and has the video conversion capability of any format input and corresponding format output. Video signals including CVBS (composite video), HDMI, VGA (RGB) and DVI-D can be processed and enhanced to meet customer application needs. The detailed specifications are as follows:

CVBS(BNCinput)			
Number of Inputs	2		
Supported Standards	PAL/NTSC		
Signal Laval	1Vpp±3db (0.7V Video+0.3v Sync)		
Signal Level	75 ohm		
HDMI input			
Number of Input	1		
	-		
Supported Standards	EDID/DDC2B		
Signal Laval	1Vpp±3dB (0.7V Video+0.3v Sync)		
Signal Level	75 欧姆端结		
VGA(DB15 input)			
Number of Inputs	1		
	1		
Interface morphology	Standard DB15 socket		
Supported Standards	VGA UXGA		
Supported Standards	VGA-UAGA		
	R_{γ} G_{γ} B_{γ} Hsync γ Vsync:0 to1Vpp±3dB (0.7V		
Signal Level	Video+0.3v Sync) 75 ohm		
	black level: 300mV Sync-tip: 0V		

DVI input			
Number of Inputs	1		
Connector	Standard DVI-D socket		
Supporting resolution	SMPTE: 625/25 PAL, 525/29.97 NTSC, 625/50p PAL, 525/59.94p NTSC, 1080P60,1080i50, 1080i59.94/60, 720p50 和 720p59.94/60 VESA: 800×600@60Hz, 1024×768@60Hz, 1280×768@60Hz, 1280×1024@60Hz, 1600×1200@60Hz		
signal level	TMDS level, single-pixel input, 165 MHz bandwidth		
standard	DVI 1.1		
USB input			
Number of Inputs	1		
Supported Standards	U disk, SD card, etc.		
Signal Level	1Vpp±3dB (0.7V Video+0.3v Sync) 75 ohm		
Network Port Output			
Number of output	2		
Interface morphology	Gigabit Network Port		
subsidiary			
Certification Notes for CE Standard	BS EN 55013:2001+A1:2003+A2:2006 BS EN 61000-3-2:2006+A2:2009 BS EN 6100-3-3:2008 BS EN 55020:2007 BS EN 6006:2002+A1:2006+A11:2008		
Computer and Central Control System Control	RS232		
power supply	85-264V 2A IEC-3 power connector		
working environment	0°C~45°C		
Stored Environment	10% to 90%		
Product Warranty	2-year limited warranty		

IV、Working sketch



V、Panel Structure



(17) Arrow sign-----back key

Back panel



- (1) UART-----Connect the host computer software through the 9-pin serial port to the RJ45 network port
- (2) USB-CFG------Connect the host computer software through the USB port
- (3) USB-----Program upgrade port, USB source input interface
- (4) HDMI-----Notebook, etc. HDMI signal input interface
- (5) DVI-----DVI signal input interface such as desktop
- (6) VGA-----Notebook and other VGA signal input interface
- (7) CV-1/2-----Composite signal input interface such as camera
- (8) AUDIO1/2-----Audio input interface
- (9) AUDIO -OUT-----Audio output interface
- (10) SAT1/2-----Network port 1/2 signal indicator
- (11)LAN1/2-----Network port output (12)power port-----220V power

VI、Wiring and installation

Wiring diagram



installation steps

1 Connect the DVI interface of the graphics card to the DVI-IN input port of the video processor as shown in the figure.

2. Then connect as shown in the figure, connect the DVI interface of the graphics card to the DVI-IN input port of the video processor, and connect the DVI-OUT output port of the processor to the sending card;

3. Make sure that the wiring is correct and power on to turn on the video processor.

VII、Equipment commissioning

Navigation mode

This Wizard is suitable for most cases. It is simple to set up. With the prompt, you can gradually debug it to achieve the desired display effect. The processor automatically enters the navigation mode when it is powered up.(or Click Enter Navigation Mode) :



Note: Screen-adjusting navigation refers to debugging parameters of sending and receiving cards, which requires box files; image navigation refers to debugging parameters of large screen image and local display.

Click on "Screen-adjusting Wizard" and enter the password for setting the screen-adjusting:



Note: Set the password of "168", "666", "888" and "999" to adjust the screen.

Select whether to import the box file:





Note: The box files need to be imported into the equipment through the upper computer software.

The box files here refer to the parameters of the receiving card.

Set the number of rows/columns in the box:



Note: Number of rows/columns in the box refers to the number of horizontal/vertical receiving cards used in the large screen.

Set the layout of keys according to the wire:



Note: Wire arrangement refers to the splicing mode between the wires. Set up cabinet routing mode:

Wizard		
Set Box Layout Set Box Layout		

Note: Cabinet routing mode: Series mode between receiving cards should ensure that

the direction of the two lines is the same. Display whether normal:

Wizard			
Display Right?			
\star 🛛 YES 🕽			
NO			
Note:Knob to Change,press Ok to next			

Note: Normal click is displayed on the large screen; if not, go back to select the box file and reset it.

Set the number of large screen points:

Wizard			
Set screen pixels			
H-SIZE: 1920 STEPX8			
V-SIZE: 1080 Finger			
Change			
Note:Knob to Change,press Ok to next			

Note: Set the number of large screen points, the number of large screen points is the size of the

whole screen.

Save settings:

Wizard		
Saving		
Note:Knob to Change,press0 k to next		

Note: Some parameters of the control system are saved here.

Select the input source:

Wizard
Select Input
Input: HDMI
Note:Knob to Change,press Ok to next

Note: Select the input signal source

Whether local display is needed:



Note: This interface is to select whether it is necessary to intercept part of the image of the input signal source and display it on the LED screen.

Ps-The most common way to do "partial display" is to display the full screen of the playback window and switch to the panoramic display of the computer desktop at any time.



full mode



Part mode

Among them, "location" - where to start intercepting; "size" - how big to intercept. The interface is as follows:

Local display settings:

Local	Display ?		
H-POS'	0		
V-POS:	0		
H-SIZE:	768		

Save settings:



Save settings:

Save mode			
☆ 〖Mode 1〗	Note		
〖Mode 2〗			
[[Mode 3]]			
[[Mode 4]]			
【Mode 5】			
Note:Knob to Change,press Ok to next			

The last step is to save the settings, in which mode one is automatically invoked after booting.

At this point, the setup of the processor is completed. In the process of using it, the signal can be switched directly with the front panel. When "local display" is needed, $\operatorname{click}^{\fbox{part}}_{0}$ It can switch the "local/panoramic" of the current signal source. If multiple modes are saved, use saved_{5} call different mode

Thank you again for using our video processor. Please refer to the back section for other details.

VIII、Control menu

Main menu	Option	Defaults	
(I) screen	Navigation mode		
(II) scaler parameters	Horizontal position	0	
	Vertical position	0	
	Horizontal size	1920	
	Vertical size	1080	
	Horizontal position	0	
	Vertical position	0	
(III) part	Horizontal size	0	
	Vertical size	0	
	Mode 1		
(IV) Save	Mode 2		
	Mode 3		
	Mode 4		
	Mode 5		
	Mode 1		
(V) Mode	Mode 2		
	Mode 3		
	Mode 4		
	Mode 5		

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		English	Chinaaa	
	(1) Language Settings	English	Chinese	
	(II) factory	confi	'n	
		cancel		
	(III) support	Please contact the sales staff.		
	(IV) Planning tasks	On		
		Off		
	(V) switch	Cut		
() MORE		Effect		
	(六) VGA set	Horizontal position	Custom	
		Vertical position	Custom	
		Horizontal size	Custom	
		Vertical size	Custom	
	(VII) Picture Quality Settings	Contrast	128	
		Red	128	
		Green	128	
		Blue	128	

	(VIII) still	Still			
		Active			
		brightness	128		
	(IX) Brightness	Red	128		
	setting	Green	128		
		Blue	128		
			On		
		(1) Load hotkey	Off		
		(II) Kev locked	On		
	(X) master		Off		
			Paly video		
		(III) Play type	Play picture		
			Off		
		(TW) On Line on the	Confirm		
		(IV) Unline upgrade	cancel		
		(VI) Device			
		Information			
		(VII) Sharpen			
		settings			
		(VIII) Sound	Mute		
		settings	Output		
			Audio source settings		
		(IX) Retransmission			
		configuration			
		(X) Readback			
		configuration			

IX、frequently asked questions

Q1: DVI、HDMI、VGA、CV、USB 端口定义。

Q1: DVI, HDMI, VGA, CV, USB Port definition.

A:

- DVI: Digital (HD) video signal is an interface standard introduced by DDWG (Digital Display Working Group) in 1999 by Silicon Image, Intel and other companies. It has been well optimized in speed, clarity and HDCP protocol. Signal sources are typically desktop computers, notebooks, etc.
- HDMI : High Definition Multimedia Interface (HDMI) is a digital video/audio interface technology. It is a special digital interface suitable for image transmission. It can transmit audio and video signals at the same time. The maximum data transmission speed is 5 Gbps. Signal sources are usually cameras, notebooks, information dissemination systems, etc.
- VGA: Analog Video Signal (Video Graphics Array) is a video transmission standard developed by IBM with PS/2 in 1987. It has many advantages, such as high resolution, fast display speed and rich color. It has been widely used in the field of color display. Signal sources are typically desktop computers, notebooks, song machines, matrices, etc.
- CV: Composite video signal, also known as composite video signal, is a signal that packages all signals into a whole for transmission. Signal source is usually camera, DVD, TV box, song-ordering machine, video matrix and other equipment.
- USB: Universal Serial Bus (USB), an external bus standard, is used to standardize the connection and communication between computers and external devices. It is an interface technology applied in the field of PC. USB was proposed jointly by Intel, Compaq, IBM, Microsoft and other companies in 1994. Signal source is usually U disk, SD card, etc.

Q2: Briefly describes the connection mode of video card, video processor, receiving card and large LED screen.

A: The video card's DVI (VGA) output port is connected to the DVI-IN (VGA-IN) input of the video processor. The output of the video processor's network port is connected to the terminal

receiving card behind the screen through the network cable. The receiving card connects and controls part of the screen and cascades the whole screen.

Q3: How to set the keyboard lock of the video processor? How to unlock?

A: A: Menu - Advanced Menu - Expert Settings - Keyboard Lock. Keyboard can be locked after opening. Keyboard can be unlocked even by pressing MENU key 10.

Q4: What is the password to enter the screen navigation?

A: "168" "666" "888" "999" Any one is OK.

Q5: What are the possible reasons why the upper computer can't detect the equipment?

A: In order to control the video processor with a trial computer, it is necessary to connect its instruction transmission line. That is serial line.

Failure to connect may result from the following circumstances.

- 1) The equipment is not powered on.
- (2) The computer is not equipped with USB cable driver or the USB driver is damaged.
- ③ Serial line is not well connected or damaged.

If the above suggestions do not solve your problem, please contact our customer service staff in time. We will help you solve the problems in the first time.

Q6: The large screen of the video card directly connected with the sending card is displayed normally, and the screen will appear black screen when it is connected to the video processor.

A: Observe whether the sending card indicates that the green light flashes normally. If the signal is given by the processor's output port, the possible reasons are as follows:

(1) The problem of signal source. When connecting the computer graphics card, the copy mode of the graphics card should be set. If not, the DVI port of the graphics card has no data output. Setup steps: Turn off the power supply of video processor - reinsert the line from video card to video processor - ATI graphics card reads and replicates automatically. NVIDIA graphics

card needs to enter the graphics card control center and set up multiple display + double screen replicate mode.

② Connection problems. When the signal line interface contacts badly or there is a problem inside the wire, the large screen will appear abnormal phenomena such as color stripes, flower screens and so on. Check carefully whether the pin in the signal line is broken or inclined and change the signal line.

If the above suggestions do not solve your problem, please contact our customer service staff in time. We will help you solve the problems in the first time.

X、 Method of Importing Box Files

1. Save cabinet files

Expert screen adjustment interface has the option of saving box files:

专家调屏					- 🗆
发送设备 🔐 接收卡 📰 显示	屏连接(正面看屏)				
唱 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	数据数组:2	智能设置		
☐ 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		
愛 效果调试	9 見存为			×	
刷新案: 660 *		→ 出申脑 → 卓面 → 测试	✓ ひ 捜索"測试"	Q	
*14/1-T-		. mo+			
输出灰度等级: <u>14</u> •	倍频数 又件名(N)): Mitt		~	
数据时钟频率: 15.63M ▼	数据时				
最小OE宽度: 16 实际值:24ns	占空比 🗸 浏览文件夹(B)		保存(S) 取	消	
换行时间: 1000 ns	换行位置: 500	ns	模式选择		
输入帧率: 60Hz *					
☑ 色彩还原 ☑ 一级起灰			低灰优化		
号丢失后保留上一帧		14		应用	固化接收
检测到1张接收卡 详细信息		保存箱体文件 从文件	载入 保存到文件 备份	全部固化	回读

2, new cabinet file

Select the video processing option of the main menu of the software, and select the list of new box files from the tool menu inside:

KYSTAR × \sim ¢ Guide Expert Brightness Calibration Monitoring Multi-function Video processing 4 Topology structure No information No device is connected now Export list Refresh

	KS600Plus 👻 Set up	Tool									
		cabinet file ma	inagement 🕨	Import cabinet	file list			Attribute			
		Import file		Export cabinet	file list				Width	Height	
		Import configu	uration	new-built cabin	et file list			Size	1920	1080	
		Export configu	Iration								
									Horizontal	Vertical	
								Window	0	0	
									width	Height	
									1920	1080	76%
									Horizontal	Vertical	
								Part displa	y 0		
									Width	Height	
Cons	ole										
8											
									Save n	node	-
								Banh	Mode	1	
		CCV2	VGA		DW	HDMI	USB		Mode	2	
	<u> </u>	~						\frown	Hibbs	-	
	CVI	CV2	VGA		DVI	HUMI	056 (Mode		
								_			
						👾 💳 —	+ (sm)	Mode	4	
	Mode1	Mode2	Mode3	Mode4	Mode5	128		<u> </u>	Mode	5	

Select Add in the pop-up window, add the required box file to the list, and then save it as a

blst file:

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KS600Plus 🕶 Set up Tool			- ×
		Attribute	
Window1 Location:0,0 Size:1920x106	٥ •	Size	Width Height 1920 1080
		Window	Horizontal Vertical
	rew-built cabinet file list (gold card) ×		width Height 1920 1080 76%
	Ltest Add to delete	Part displa	Horizontal Vertical ay 0 0
	upward		Width Height
		×	
Console	← → ✓ ↑ 🧧 « Kystar Control System → Temp 🗸 ♂ 複素"Temp" 🥠	ρ	
Tevice not connected	组织▼ 新建文件夹 副Ⅱ▼	0	Save mode
	資源 各称 修改日期 美型 資源 □ 滴示:0925.blst 2018:09:25.20:23 BLST 文件 □ 本地磁盘(C3) □ <td< th=""><th>Ĵ</th><th>Mode 1 Mode 2</th></td<>	Ĵ	Mode 1 Mode 2
CV1 CV	文件名(N): [tes] (中学型D): 律作文件列表(*.blst)		Mode 3
Mode1 Mode2	▲ 陶藏文件夹 (保存(S) 取満		Mode 4 Mode 5
			ーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーーー

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3、 import cabinet file list

Select Add in the pop-up window, add the required box file to the list, and then save it as a blst file:

	– ×
cabinet file management Import cabinet file list	Attribute
Import file Export cabinet file list	Width Height
Export configuration	Size 1920 1080
	Horizontal Vertical
	Window 0 0
	width Height 🚄
	1920 1080
	Horizontal Vertical
	Part display 0 0
	Width Height
C Device not connected	Save mode
	Berrft Mode 1
	Mode 2
CV1 CV2 VGA DVI HDMI USB (
	SVIID Mode 4
Mode1 Mode2 Mode3 Mode4 Mode5 128	Mode 5
VS6000bis + Satura Tool	ALC: NOT
	_ ×
Attr	ibute
Attr	ribute Width Height
Atty Victorial Containino 0 Sire: 1920x1000	ibute Width Height Size 1920 1080
Attr	ibute Width Height Size 1920 1080
Att	ibute Width Height Size 1920 1080 Horizontal Vertical Window 0 0
Att	ibute Width Height Size 1920 1080 Horizontal Vertical Window 0 0
Ath Finder1 Location 0,0 Size1920x1000	- × ibute
Att	ribute Width Height Size 1920 1080 Horizontal Vertical Window 0 0 width Height 1920 1060
Att	ribute width Height 1920 1080 Horizontal Vertical window 0 0 width Height 1920 1080 Tassi Horizontal Vertical Horizontal Vertical
Att	Abute tbute Width Height Size 1920 1080 Horizontal Vertical Window 0 0 width Height 1920 1060 Horizontal Vertical Part display 0 0 Part display 0 Notice 10 Notice 1
Attr Finderst Location 0, 0 Site: 1920x1000 Import cabinet file list 本 选择保存好的 b 1 st Select cabinet file list: C: YProgram Files (x66)(Ky;StarKy; ···	ribute vibute Size 1920 1000 Horizontal Vertical Window 0 0 width Height 1920 1000 Horizontal Vertical Part display 0 0 Part display 0 0
Attr Finderst Location 0, 0 Site: 1920x1000 Import cabinet file list × Select cabinet file list: C:\Program Files (x86)Ky/StarKy, ···	ribute Vidth Height Size 1920 1000 Horizontal Vertical Window 0 0 width Height 1920 1000 Horizontal Vertical Part display 0 0 0 Vertical 0
Attr Location 0 Size: 1920x1000 Import cabinet file list Select cabinet file list: C:\Priogram Files (x86)(kyStar\Ky,) Write to 0% import	ribute vibute Size 1920 1080 Horizontal Vertical Window 0 0 width Height 1920 1060 Horizontal Vertical Part display 0 0 0 0
Attr Licentian 0 0 Size: 1920x1000 Import cabinet file list × Select cabinet file list: C:Program Files (x86)(kyStar(Ky, m) Write to 0% import	ribute Size 1920 1080 Horizontal Vertical Window 0 0 width Height 1920 1080 Horizontal Vertical Part display 0 0 0 O
Indextd Carter You Attribute Interview Interview Interview Interview Select cabinet file list: Console Console Device not connected	ribute ribute Size 1920 1080 Horizontal Vertical Window 0 0 width Height 1920 1080 Horizontal Vertical Part display 0 0 Save mode
Interval Console Console Console	rbute rbute Size 1920 1080 Horizontal Vertical Window 0 0 0 width Height 1920 1080 Horizontal Vertical Part display 0 0 Save mode Save mode
Interval Console Console (Console (Console (Console (Cons	ribute ribute Size 1920 1080 Horizontal Vertical Window 0 0 0 width Height 1920 1080 Horizontal Vertical Part display 0 0 0 Save mode Mode 1
Interval Console Import cabinet file list Console Import cabinet file list: C: \Program Files (x66) (Xy)Star (Yy) = Write to 0% import	ribute ribute Size 1920 1080 Horizontal Vertical Window 0 0 0 width Height 1920 1080 1080 Horizontal Vertical Part display 0 0 0 Save mode Mode 1 Mode 2
Attributes the rest of the field of the rest of	ribute ribute Size 1920 1080 Horizontal Vertical Window 0 0 0 width Height 1920 1080 78% Horizontal Vertical Part display 0 0 0 Save mode Mode 1 Mode 2 Mode 3
Attributes the rest of the second of the sec	ribute ribute Size 1920 1080 Horizontal Vertical Window 0 0 0 width Height 1920 1080 1080 Horizontal Vertical Part display 0 0 0 Save mode Mode 1 Mode 2 Mode 3 Mode 4
Instantion of the set of	ribute ribute Size 1920 1080 Horizontal Vertical Window 0 0 0 width Height 1920 1080 78% Horizontal Vertical Part display 0 0 0 Save mode Mode 1 Mode 2 Mode 3 Mode 4
Inspect of the lat ************************************	ribute ribute Size 1920 1060 Horizontal Vertical Window 0 0 0 width Height 1920 1060 78% Horizontal Vertical Part display 0 0 0 Save mode Mode 1 Mode 2 Mode 3 Mode 4 Mode 5

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		第日1 1月第1日第一0,0 1月第十分、384	:440				開幕合政	売度 394	遊應 440
							10531		
							第 口	水平位置 0	新加速 1
								284	8/R 440
		导人家	体文件列表	握示 ×		×	局间数本	水平位置 0	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
			法接箱体文件列表	1 石入助機成功	sktop\测试	bist		商家 0	基度 0
		- - 1		Me		导入	₩G	B	
						-			वन
0	9	0	0				0		41
e				9				a	1 1 2
	UV2	V041	VGAL	UNI	rumi	301	•	g	độ
CVI									

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After the software prompts that the data is successfully written, it can be debugged by the video processor. When the processor selects the box file, the imported file file will be displayed on the LCD screen.