

OVP-G Series video controller

Four windows G6/G10

Six windows G16/G20/G24/G32

USER MANUAL



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1. Brief introduction

The OVP-G series, introduced by ONBON Technology, comprises six multi-screen LED video controllers (integrated splicing and control devices) that are easy to operate and feature a wide range of functions. The series includes six models: G6, G10, G16, G20, G24, and G32. These controllers integrate advanced LED display control technology with robust video processing capabilities, featuring 6/10/16/20/24/32 gigabit network ports for output, with maximum load capacities of 393/655/1048/1310/1572/2096 megapixels. The devices are designed with a 1.5U/2U standard industrial chassis, making them adaptable to a variety of complex application environments. They are widely used in LED displays in various settings, including shopping malls, hotels, exhibition halls, meeting rooms, and TV broadcasting centers.

The OVP-G series is designed for large-scale stage performances with stringent video switching requirements. It supports 4K x 2K@60Hz input video sources, easily meeting the ultra-high resolution output of 8K x 2K and 8K x 1K. It can provide an incredibly clear and stunning image for large-scale stage LED background walls.

Features

- G6/G10 supports 4 windows display and customizable layout, with 1 nos HDMI 2.0 and 3 nos HDMI 1.3 input sources;
- G16/G20/G24/G32 supports 6-screen display and customizable layout, with 2 nos HDMI
 2.0 and 4 nos HDMI 1.3 input sources.
- Supports high dynamic range (HDR10) video source output, offering a wider color gamut, higher contrast, and enhanced detail in both bright and dark areas, delivering an ultra-clear immersive visual experience.
- Supports multi-language menu interface (Chinese, English, Russian, Vietnamese).
- All input sources and output modes can be quickly and seamlessly switched or faded in/out.
- Supports hot backup for multiple input signal sources.
- Standard RS232 interface for easy integration with central control devices.
- Standard WiFi module for convenient mobile device setup and control.
- Pre-stores 16 user modes for quick access.
- G6/G10/G16 load width \leq 8188 pixels, height \leq 8188 pixels.
- G20/G24/G32 support a load width of ≤16376 pixels and a height of ≤16376 pixels.
- G6/G10/G16/G20 use a 1.5U standard industrial chassis with a standard 2.8-inch color LCD screen (resolution 320×240).
- G24/G32 use a 2U standard industrial chassis, with a standard 5-inch color touchscreen (resolution 800×480).

2. Application scenarios





- 3. Surface
- 3.1. OVP-G6/G10 quad video controller (1.5U)
- Front panel

Take G10 for example



1	1 mains switch	
2 2.8" color LCD screen, resolution 320*240		

Back panel

Take G10 for example



Interface specification		
1	Gigabit network port: 10 Gigabit network port output interface, connected to the receiving card.	
2	DVI /HDMI1.3 / HDMI2.0: Video input interface	
3	AUDIO IN /OUT: Audio input/output interface	
4	RS232: central control interface	
5	LAN: Network control interface	
6	COM: USB control interface	



7	7 USB2.0 interface: support the insertion of U disk, and can export screen parameter files	
8	WiFi: Standard WiFi	
9	Power supply: 100-240V~50/60Hz	

3.2. OVP-G16 /G20 six-screen video controller (1.5U chassis)

• Front panel

Take the G20



Interface specification		
1	mains switch	
2	2.8" color LCD screen, resolution 320*240	
3	Knob [OK] key: Press the knob to confirm or enter the lower menu. Select the knob to select the menu or adjust the parameters.	
4	[(] Key: Return key to exit the current menu or operation.	
5	[MODE] key: Press to enter the mode call menu.	

Back panel

Take the G20



Inter	Interface specification		
1	Gigabit network port: 20 gigabit network port output interface, connected to the receiving card.		
2	EXT /DVI /HDMI1.3 / HDMI2.0: Video input interface		
3	AUDIO IN /OUT: Audio input/output interface		
4	RS232: central control interface		
5	LAN: Network control interface		
6	COM: USB control interface		
7	USB2.0 interface: support the insertion of U disk, can export screen parameter files		
8	WiFi: Standard WiFi		
9	Power supply: 100-240V~50/60Hz		

3.3. OVP-G24/G32 six-screen video controller (2U chassis)

• front panel

Take G32 for example



interface specification		
1	mains switch	
2	2 5" color touch screen with resolution 800*480	



• back panel

Take G32 for example



inter	interface specification		
1	Gigabit network port: 32 Gigabit network port output interface, connected to the receiving card.		
2	EXT /DVI /HDMI1.3 / HDMI2.0: Video input interface		
3	AUDIO IN /OUT: Audio input/output interface		
4	WiFi: Standard WiFi		
5	RS232: central control interface		
6	LAN: Network control interface		
7	COM: USB control interface		
8	USB2.0 interface: support the insertion of U disk, and can export screen parameter files		
9	Power supply: 100-240V~50/60Hz		

4. Device size

4.1. OVP-G6/G10/G16/G20,1.5U Case

UNIT: mm



1

4.2. G24/G32,2U chassis

UNIT: mm



5. Product using guiding

Note: OVP-G6/G10/G16/G20 is a combination of LCD screen and knob operation mode, while G24/G32 is a touch operation mode of LCD screen.

The following product instructions are introduced with the combination of LCD screen and knob operation as an example.

5.1. Tap the screen quickly

Select the OK key on the knob to enter the main menu, and then select "Quick Screen Click" under

"Smart Screen Adjustment".



prerequisite

- The display screen is a regular display screen, not an irregular screen.
- The display cabinet is a regular box, and the resolution size of each box is consistent.
- The wiring between the display cabinets is as follows. The wiring of each network port can be connected downward in the same direction, and cannot be randomly wired.

Operating steps

Step 1: Power on the OVP device and LED display;

Step 2: Press the knob on the main screen to enter the menu screen;

Step 3: Rotate the knob to select "Smart screen adjustment--> Quick touch screen", and enter

the "Quick touch screen" interface;

Step 4: According to the interface guidance, "box setting", "select network port" and "screen parameter setting" are carried out in three steps;

Step 5: Click the "Send" button to complete the operation.





5.2. Input signal source switching

Users can set the specific input signal source according to their usage. They can select the [OK] key through the knob to enter the main menu, and then enter "source switching" to select the corresponding input signal source, and then the setting is complete.

EDID setting		
HDMI1(6)	HDMI2(3) HDMI3(1) HDMI4(1) DVI(1) EXT(1)	
1920x1080@60Hz		
width	9999 height 9999	
Refresh rate	60	
	SAVE CANCEL	

Set the input resolution

Step 1: Select the knob [OK] to enter the main menu, and then enter "source switching" to select the corresponding input signal source;

Step 2: Select "EDID Settings" in "Source Switching", and enter the operation of input resolution;

Step 3: After selecting the parameters with the knob, select "Save" with the knob and press the [OK] key for a short time to set the parameters.

5.3. Screen Settings

Screen layout

Step 1: Select the knob [OK] key to enter the main menu, and then enter "Settings--> Picture layout";

Step 2: After selecting the corresponding picture with the knob, short press the [OK] key to enter the

parameter setting interface;

Screen layout SCreen layout SCreen layout Close 2 Close 3 Close 4 Close 5 Close 6 Name:image1 Source:EXT © Image state:ON DBD OFF • X 0 Y 0 W 1920 H 1080 mirror F • • •

Step 3: After selecting the parameter value with the knob, short press the [OK] key to set.

Image capture

Step 1: Select the knob [OK] key to enter the main menu, and then enter "Settings--> input capture";

Step 2: After selecting the corresponding source 🖭 with the knob, select the icon and press the [OK]

key for a short time to enter "input capture";

Step 3: After selecting the parameter value with the knob, short press the [OK] key to set.

Step 4: After the setting is completed, select the "OK" button and short press the [OK] key to set.

INPUT CROP		
Name: HDMI1_Crop1 CROP:		
X 9999 Y S	3999	
SAVE CANCLE	APPLY	

- X: The horizontal starting position of the captured picture is taken with the upper left corner of the picture as the reference point.
- Y: The vertical starting position of the captured picture is taken with the upper left corner of the picture as the reference point.

- Width: Set the overall width of the captured picture.
- Height: Set the overall height of the captured picture.

5.4. Image effects

Step 1: Select the knob [OK] key to enter the main menu, and then enter "Settings--> Image effect"; Step 2: Select the "Picture quality" or "Color temperature" menu on the knob, and then press the [OK] key briefly to enter;

Step 3: After selecting the parameter value with the knob, short press the [OK] key to set.

IMAGE QUANLITY	
BRIGHTNESS	3
SHÄRPNESS	3
Contrast,	з
Saturation	з
SAVE	

5.5. User mode save and call

Mode is saved

- Step 1: Select the knob [OK] key to enter the main menu;
- Step 2: Select the icon in the Plower right corner of the knob, short press the [OK] key to expand the menu list, and then select the "Save" menu and short press the [OK] key to enter; Step 3: Rotate [knob] Select a mode and press [OK] briefly to save the mode.





Call user Mode

Step 1: Select the knob [OK] key to enter the main menu;

Step 2: Select the icon in the lower right corner of the knob and short press the [OK] key to expand the menu list, then select the "Call" menu and short press the [OK] key to enter; Step 3: Rotate [knob] Select a mode and short press [OK] key to call the mode.



6. Software usage

6.1. Java runtime environment Java

BXsetPRO supports Windows XP, Vista, Windows 10, Windows 11 and other operating systems.

Gigabit network card mode, computer configuration requirements:

- CPU above 2.0GHz, recommended CPU 3.0GHz.
- More than 2GB of memory, recommended 4GB of memory.
- The motherboard has a Gigabit network card or an external PCI/PCI-E Gigabit network card.

Send card mode, computer configuration requirements:

- CPU above 2.0GHz, recommended CPU 3.0GHz.
- More than 2GB of memory, recommended 4GB of memory.
- Independent graphics card, more than 512MB of video memory, and must have a DVI interface, recommended video memory 1GB.

Note: In practical application, users should appropriately improve the performance and configuration of the computer according to the number of pixels on the LED screen, the complexity of the program to be played, and whether the video is a high-definition video source.

6.2. Installation and uninstallation

6.2.1. software installation

1. Double-click the BxSetsetup installation file, follow the software installation wizard to install the software, select the language of the software installation, and click "OK".



Select Se	tup Language	×
12	Select the language to use during installation:	ng the
	English	~
	OK	Cancel

2. Enter the installation wizard interface, select the installation path, and click "Next".

Setup - LedShowSuite		-	
Select Destination Location Where should Bxsetpro	be installed?		Ő
Setup will install Leds	showSuite into the following	g folder.	٩
To continue, click Next. If you	would like to select a diffe	rent folder, click Brov	vse.
C:\Program Files (x86)\Onb	Bxsetpro	B	owse
At least 345.1 MB of free disk	space is required.		
		Next >	Cancel

3. After selecting the installation path, enter the preparation installation interface and click "Install".



eady to Install				2
Setup is now ready to begin installing	g Bxsetpro	on your co	mputer.	2
Click Install to continue with the insta change any settings.	allation, or click	Back if you	vant to review	or
Destination location: C:\Program Files (x86)\Onbon\	Bxsetpro			^
Start Menu folder: Bxsetpro				
				. ×

- 4. After the installation is complete, select whether to restart the computer to complete the installation of BXsetPro software, and click "End".
- After the installation, the system will automatically 5. click to open the software.

6.2.2. Uninstall the software

In the [Start] - [All Programs] section of your computer, you can find the BXset program group. Right-click and select 'Uninstall' to uninstall all files and shortcuts of 'BXset'. Alternatively, users can also go to the 'Control Panel', select 'Programs and Features', then find 'BXset' and click 'Uninstall' to uninstall the software.



6.3.1. Interface overview

After starting the software, you can see the software housing interface as shown in the figure.



The software is divided into two sections for debugging synchronous devices and asynchronous

devices. Each section mainly includes menu bar, toolbar and device list area.

📑 BxSe	etPro V25.03.13.00								- 0 ×
Syr	chronizing Device	Asynchronous Device						Too	ls Setting
Searc	h online Manual add screen	Gigabit network	Video processor Multifunction of	card Communicat	ion Turn on Turr	off Time for switch	Correct time Brightr	ess Status monitoring De	Memu
		Search Empty	🐴 Total number of de	evice: 2 🖉 Or	nline: 0 🖉 (Offline: 2			0
#	Device name	Туре	Communication	Barcode	State	Brightness	Receiving card quantity	Multifunction card qu	uantity
1	Screen-1	OVP-G32	Serial		Offline	255	0	0	
2	Screen-2	OVP-K4 Rev.C	Serial		Offline	255	0	0	

6.3.2. Search online for screens

Click "Search screen online" to enter the "Search screen online" interface. You can select "LAN", "serial port" or "specified IP" communication mode to connect to the search device. The searched device will be displayed in the "device list". Check the device you need to connect to and click "Add" to add the screen.

Search online	×
 Local area network searching Serial port Specify IP address 	 Search Search
Device list	Device information
□ ▲ OVP-G32	IP:
Select all	Add Cancel

6.3.3. Add screens manually

Click "Add screen manually" to enter the "Add screen manually" interface, you can select

"series", "type" and modify the device name, click "Add" to add the screen.

lame	Screen-3	
eries	Video processor	~
ype	OVP-G32	~
arcode		

6.3.4. Gigabit network screen adjustment

Click "Gigabit network screen", enter the "Gigabit network screen" interface, in the Gigabit network communication mode, select "network card" and modify the device name, click "Add" to add the screen.

Name	Screen-3
Network card	Intel(R) Ethernet Connection (16) I219-V ~



6.4. Communication Setting

6.4.1Communication mode

						1071 11					
	Copreb oplino		Cigabit patwork		Video processor Multi	function cord	Communication				
	Search online	Manual add screen	GIGADIT NETWORK	Screen setting	video processor Multi	runction card	Communication	Communicat	ion mode	Network	k option
			Search	Empty	🕋 Total nun	nber of device: 2	🔗 Online:	• Fixed IP	 Direct 	0	Serial po
	#	Device name		Туре	Communication		Barcode	Network		Ethernet	
	1	Screen-1		OVP-G32	Serial			IP		192 168	1 . 10
	2	Screen-2	OV	VP-K4 Rev.C	Serial			Port		5005	
1. 2	Netwo	rk settin	a							ОК	Car
1. 2. 1ronizi		rk settin Asynchrono	g ous Device			<u>@</u>	2g Network option			ок	Car
1. 2. nronizi	Networ	rk settin Asynchrono Gigabit network	g bus Device	Video processor	Multifunction card	Communication	2g Network option Communic	ation mode	Network opt	OK ×	Car
1. 2. nronizi	Networ	rk settin Asynchrono Gigabit network Search	g bus Device	Video processor	Multifunction card	Communication Communication	20 Network option Communic Ethernet	ation mode Wifi A	Network opt	ОК × tion MAC	Car
1. 2. nronizi	Networ	rk settin Asynchrono Gigabit network	g bus Device Screen setting Empty Type	Video processor	Multifunction card I number of device: 2 ation Bar	Communication	20 Network option Communic Ethernet Local ethern	ation mode Wifi A et: 192.168.6.135	Network opl	OK × tion MAC	Car
1. 2. nronizi	Netwool ing Device	rk settin Asynchrono Gigabit network Search	g bus Device Screen setting Empty Type	Video processor Communic Serial	Multifunction card	Communication	20 Network option Communic Ethernet Local ethern IP address	ation mode Wifi A et: 192.168.6.135	Network opt	OK × tion MAC	Car
1. 2. hronizi	Networ	rk settin Asynchrono Gigabit network Search	g Dus Device Screen setting Empty Type VP-G32 P-K4 Rev.C	Video processor Communic Serial Serial	Multifunction card	Communication Code	2a Network option Communic Ethernet Local ethern IP address Subnet Mask	ation mode Wifi A et: 192.168.6.135	Network op 192_168_1 255_255_255	OK X tion MAC . 100 . 0	Car
1. 2. hronizi	Networ	rk settin Asynchrono Gigabit network Search	g bus Device Screen setting Empty Type VP-G32 P-K4 Rev.C	Video processor Communic Serial Serial	Multifunction card al number of device: 2 ation Bar	Communication	20 Network option Communic Ethernet Local ethern IP address Subnet Mask Gateway	ation mode Wifi A et: 192.168.6.135	Network op 192_168_1 255_255_255 192_168_1	ОК X tion MAC . 100 . 1	Car

6.5. Set screen parameters

Click "Set screen parameters", enter the password "888" in the dialog box that pops up, and click the "OK" button to enter the "Set screen parameters" interface. The set screen parameters interface is

Read back Write to device

divided into four parts: screen information, scanning parameters, receiving card connection and firmware upgrade.

6.5.1. Screen information

In "Screen Information", you can view the control card information of the added screen. In addition, you can perform the following operations: number of split screens, output configuration, setting sending card, importing device parameter file, exporting device parameter file, and reading back device parameter.

Synchronizing Device V25.03.13.00									×
Device list (2)	Screen option S	can parameters	Receive card connection	Firmware update					
CVP-G32)	Device parameters				Device information				Quer
Screen-2 (OVP-632)	Device parameters Name Series Type Barcode Split screen number Network port output Communication mod	Screen-1 Video processor OVP-G32 1 Automatic alloc	Apply ation Configurat	Ion	Device information Device Version: Device time: Device barcode: Device UID: Device state: FPGA (DVI Input) : 0 * 0 @ FPGA2 (DVI Input) : 0 * 0	None 🗈 None 🔁 None			Quer
	Parameter maintenan	ce Set Video Proc	essor Set Network port I	not back Communication	Import device parameter file	Export device parameter file	Read back p	aramete	ers
]						Save	Close	e

6.5.1.1. Set up the sending card

On the 'Screen Information' interface, click 'Set Send Card'. In the 'Send Card' interface, select a resolution that matches your monitor's resolution from the drop-down list after' Recommended Mode ', or you can click' Customize 'to input the desired screen dimensions. Finally, click' Set' to complete the configuration of the send card resolution. As shown in the figure below. (Here, the computer resolution is 1600*900)



SENDING CARD				-		×
RATE (HZ)						
60	~					
RECOMMAND M	ODE	⊖ c usto m				
1600*900	~	640	* *	480		*
800*600 1024*768 1280*720 1280*768 1280*800 1280*1024 1366*768 1440*900 1440*1080					SETTI	NG
1600*900 1600*1200 1680*1050 1728*1296 1792*1344 1920*540 1920*1080		COMMUNICATION				

6.5.1.2. Multiple display Settings

When a user's computer is connected to multiple monitors or LED screens, they need to first set the display mode of the computer. First, click on the computer screen, right-click, and select "Display Settings," as shown in the figure below. (This example uses Windows 10; the settings for other operating systems may vary slightly, but are provided for reference.)



Go to the Settings interface, select the "Display" TAB, in the "Display" interface, set the resolution to "1600x900" (the same as the resolution set in the sending card), select "Landscape" for

"Direction", and "Multi-display Settings" is divided into "Copy these displays", "Extend these displays", "Show only on 1", and "Show only on 2".

- Copy these monitors to indicate that two monitors display the same picture.
- Expand the display to form a complete picture of the two displays, and the mouse can move from the first display to the second.

When you select the "Extend these monitors" mode, the software supports background playback, and users can view the screen on the desktop of the computer they want to monitor by selecting Desktop Monitoring under Settings.

System	Color
Display	Night Mode 美
ባ) Sound	Night Mode Settings
Actions	Zoom and Layout
J Focus Assistant	Change the size of text, apps, etc.
O Power and Sleep	100% (Recommended)
	Advanced Zoom Settings
G Storage	Resolution
Tablet Mode	1600x900 (Recommended)
Multi-tasking	direction
Project anto this computer	Landscape V
X Experience Sharing	Multiple Display Settings
Remote Desktop	Multiple Display Settings
»	Copy these displays
O About	Extend these displays
	Show only on 1
	Show only on 2nd screen

6.5.1.3. Split screen function

By using the split-screen feature, you can display a single screen across multiple areas. First, set the number of splits in the 'Screen Information' section, for example, enter 4 and click 'Apply' to complete the setup. At this point, a list of splits will appear below the corresponding screen in the left 'Device List' area, as shown in the following figure.



							×
Screen option Firm	nware update						
Device parameters Name Series Type Barcode	Screen-2 Video processor OVP-K4 Rev.C	v	Device information Device Version: Device time: Device barcode: Device UID:	D D			Quer
Split screen number Network port output Communication mode: Parameter maintenance	A Automatic allocation Offline Set Video Processor	Set Network port hot back Communication	Device state: FPGA (DVI Input) : 0 * 0 @	0.000Hz Export device parameter file	Read back para	meter	5
					1		
	Screen option Firr Device parameters Name Series Type Barcode Split screen number Network port output Communication mode:	Screen option Firmware update Device parameters Name Name Screen-2 Series Video processor Type OVP-K4 Rev.C Barcode	Screen option Firmware update Device parameters Name Screen-2 Series Video processor Type OVP-K4 Rev.C Barcode Split screen number Apply Network port output Automatic allocation Configuration Communication mode: Offline	Screen option Firmware update Device parameters Device information Name Screen-2 Series Video processor Type OVP-K4 Rev.C Barcode Device UID: Split screen number Import output Automatic allocation Configuration Communication mode: Offline Parameter maintenance Set Video Processor Set Video Processor Set Network port hot back Communication Import device parameter file Import device parameter file	Screen option Firmware update Device parameters Device information Name Screen-2 Series Video processor Type OVP-K4 Rev.C Barcode Device UID: Split screen number 1 Perce state: Device state: Network port output Automatic allocation Communication mode: Offline Perameter maintenance Set Video Processor Set Video Processor Set Network port hot back Communication Import device parameter file Export device parameter file	Screen option Firmware update Device parameters Device information Name Screen-2 Series Video processor Type OVP-K4 Rev.C Barcode Device UID: Barcode Device UID: Split screen number Apply Network port output Automatic allocation Communication mode: Offline PParameter maintenance Set Video Processor Set Video Processor Set Network port hot back Communication Import device parameter file Export device parameter file Read back parameter maintenance Set Video Processor	Screen option Firmware update Device parameters Device Information Name Screen-2 Serles Wdeo processor Type OVP-K4 Rev.C Barcode Device Information Split screen number Apply Network port output Automatic allocation Communication mode: Offline Perameter maintenance Set Video Processor Set Video Processor Set Network port hot back (Communication Import device parameter file Export device parameter file

Select one split screen, and you can set the starting position of the screen, the number of rows and columns of the box, the width and height of the box, and the connection mode in the "Receiver Card Connection" on the right, as shown in the following figure.

evice list (2)	Scan parameters Re	eceive card connection					
Screen-1 (OVP-G32) SplitScreen_1 SplitScreen_2 SplitScreen_3 SplitScreen_4 Screen-2 (OVP-K4 Rev C)	Standard connection Screen starting position X 0 Y 0 Y 0 Number of receiving cards Columns 0 Rows 0 Copy screen 0 0 \$ Network port 1-16 1-16 17-32 1 2 3 4 5 6 7 8 9 10 11 12 1 14 15 16	Revoke Recovery	Shortcut_routing	Show route Rt Emptyd m	ode Manualencing Choo	se Help 100% v	W 104 H 468 Empty card Data set expansion Send the current receiver card parameter Send the current
	Test chart	Calibration		Network port loaded	Send specified connection	Send all connection	Parametric curing

Select one split screen and click the right mouse button to "rename", "copy split screen", "insert split screen above", "insert split screen below", "delete split screen", "copy split screen parameters", "paste split screen parameters", and "switch complex split screen" to the selected screen, as shown in the following figure.

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6.5.2. Scan parameters

Click "Scan parameters" to enter the parameter interface, and click "Select module" as shown in the following figure.

- synemonizing berice vzs.os.rs.						0
evice list (2)	Scan parameters Receive	card connection				
Screen-1	Receiving card type BX-V75H	I/V75/V75L ~				 Gamma correction
(OVI-GSZ)	Module parameter					Advanced
spinscreen_1	Module size	Driver chip (503)	Row decode chip	Scan mode	Select modules	▼ Other
splitscreen_2	104W * 26H	ICND1065	74HC138	26scan	Modulo dotaile	White balance
SplitScreen_3	Module cascade direction	Color channel	Data polarity	OE polarity	Module details	TCND10CE Deservations
SplitScreen_4	From right to left ~	R - G - B 🗸	Positive ~	Low ~	Smart scan	ICND1005 Parameters
OVP-K4 Rev C)	Cabinet design	0	Special enclosure			
	weath	Usiaht	opecial chelosare			
	Width	neight 1				
	104 <=309	468 <=832	Data set expansion		Factory mode	
	Performance settings Gray scale	Accelerate rate	Visual refresh rate	Brightness efficiency(%)	Frame rate(Hz)	
	16384 ~	4 ~	3840 ~	76.68	60	
	Shift clock(MHz)	Duty ratio(%)	Clock phase	Data group	Frame field black time(us)	
	8.33 ~	53.33% ~	0	Normal ~	86.64	
	GCLK	GCLK phase		Double clock		
	16.67 ~	0		Disabled ~		
				Frequency factor		
				2 ~		
				-		
	Vanishing					
	Wrap time Actual val(ns)	Row blanking time Actual val	(ns) Row break time Actual	val(ns)		
	10 2 80	14 1679	209 21672	V linkage (1)		
				_ , 0		
			Import Parameters	Export Parameters Read ba	ck the specified parameters Sen	d Parameters Parametric cur

 On the 'Select Module' interface, you can select the corresponding chip series under 'Driver Chip,' choose the 'Row Decoding Chip' type, select the 'Module Manufacturer' and 'Category,'

as well as the specific scanning method. Finally, click 'OK.' In the lower right corner of the 'Scan Parameters' interface, click 'Send Parameters.' Additionally, the software supports cloud-based configuration file downloads. Once the module has saved its configuration file, simply click 'Download Cloud Module Configuration' to synchronize the module's configuration file.

Driver chip	Row decode c	hip	
General chip Select	74HC138	Select	Download the cloud module configuration
Module brand	Classification	Scan mode	
Full Color	64 Scan	64.0	
Single and double color	60 Scan	64.1	
Leyard	59 Scan	64.3	
LAMP	58 Scan		
Unilumin	57 Scan -		
GKGD	54 Scan		
CAILIANG	52 Scan		
QiangLi	51 Scan		
ТееНо	48 Scan		
HOOZOE OPTO	45 Scan		
Scree	44 Scan		
Huaxia	43 Scan		
Royal Display	42 Scan		
HELILAI	40 Scan		
LiahtColor		•	

 In the "Module Details" interface, you can see the "Module Size", "Driver Chip", "Line Decoding Chip", "Scanning Method", "Module Cascading Direction", "Color Channel", "Data Polarization", "OE Polarization", "Number of Data Groups", "Dual Clock", "Grouping Method", "Empty Scan Point", and "Wire Direction" of the selected module

BX M	lodule	detail	5																												C
Mod	ule siz	ze			Drive	er <mark>chi</mark> p	o (500))		Row	deco	de chi	ip		Scar	n mod	e			Mod	dule ca	iscade	direc	tion	Colo	or cha	nnel				
32W	/ * 6 4	Н			Gen	eral c	hip			74H	IC138				64s	can				Fro	m righ	it to le	eft		R -	G - B]	
Data	pola	rity			OE p	olarit	Y			Num	nber o	f data	sets		Dou	ble clo	ock			Gro	uping	mode			Eve	ry swe	eep er	npty p	oint		
Posi	itive				Low					1					Nor	nuse				par	allel				0						
Rout	ting d	irectio	n																												
Hori	izonta	l]																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	3
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	3:
2	2																														
3	3																														
4	4																														
5	5																														
6	6																														
7	7																														
8	8																														
9	9																														
10	10																														
11	11																														
12	12																														
13	13																														
14	14																														

3. Smart scan

When the user is not sure which scanning mode to choose, the intelligent scanning

configuration can be used to learn which scanning mode is suitable for the LED screen.

Step 1

Click "Intelligent Scan Configuration" to enter the "Intelligent Settings Wizard-1" interface and set relevant parameters.



 Horizontal Grouping parallel 	~	Large module			
Grouping		Every sweep empty po			
		Every sweep empty point			
	~	0			
Row decode me	ode:	Module cascade directi	ion		
elect 74HC138	Select	From right to left			
Data group		Output location			
~ Normal	~	D1	`		
Double clock					
~ Disabled	~				
Double clock V Disabled	~				
st be the actual lateral p loss!	oints of module	, can appear otherwise			
	Select 74HC138 Data group Normal Double clock Disabled	Select 74HC138 Select Data group V Normal Double clock V Disabled V	Select 74HC138 Select From right to left Data group Output location V Normal D1 Double clock Disabled V St be the actual lateral points of module, can appear otherwise loss! Select		

- Type: Horizontal and vertical.
- Module width: Users can input the module width according to the total number of points in one line of the LED screen they use.
- Data group: you can choose normal, 20 data groups, single/biased base, custom 1, custom 2, and custom 3
- Number of points per scan: When using an empty point screen, you can enter the number of empty points.
- Drive chip: The default is a general-purpose chip, but you can also specify a specific LED screen chip.
- Line decoding mode: it is divided into undecoding, 74HC138,74HC595, RT5958, SM5266P, LS9739 common cathode, LS 9736 common cathode, LS 9737 common cathode, LS 9735 common cathode and other line decoding modes. Usually, 138 decoding is selected.
- Module cascading direction: the connection direction of the receiving card is divided into from right to left, from left to right, from top to bottom and from bottom to top.
- Scan mode: Select the scan mode of the module.
- Grouping mode: divided into parallel, three-color one-point serial, three-color eight-point serial.
- Output location: Select the output location for the data group.



After the setup is complete, click Next.

Step 2

Enter the "Smart Settings Wizard-2" interface and set the relevant parameters.

Smart scan: Step 2 Check activation[demo mode]		2
Display change		
State automatically change, will change every 4 seconds at a time, and observe the LED module, choose the right answer in the display status.		
○ 1		
Display status		
Status 1 is black and status 2 is white	~	
General chip " smart scan in module chip, display on the left may show color piece is normal phenomenon, can continue smart scan	w abnor	mal,
The lite version (4.1.x.x) does not support smart scan	Next	Cancel

First, click '1' to check if the LED screen displays black or white. Then, click '2' again to check the same. If you want to observe the changes on the screen more closely, you can select 'Automatic Status Change' at the top of the interface, which will change every 4 seconds. Observe the LED module and choose the correct answer from the displayed options. Next, select the screen change status from the drop-down list under 'Display Status,' and click 'Next.'

Step 3

First, click '1' to check the brightness of the LED screen. Then, click '2' to check the brightness again. If you want to closely observe the changes on the screen, check the 'Automatic Status Change' option at the top of the interface, which will change every 4 seconds. Observe the LED module and select the correct answer in the display status. Next, choose the screen change state from the drop-down list under 'Display Status,' and click 'Next.'

Step 4

First, click "Display Status 1" to check the color of the LED screen and select the correct color.

Then, click "Display Status 2" to check the color again and select the correct color. Repeat this process for all three color changes. If you want to observe the screen changes more closely, you can check the option at the top of the interface that says "Status changes automatically every 4 seconds. Observe the LED module and select the correct answer in the display status." Finally, click "Next".

國 Smart scan: S	tep 4 Check color[demo mode]		×
Display chan State au and obs status. Display statu	ge Itomatically change, will chan erve the LED module, choose Is	ge every 4 seconds at a time, the right answer in the display	
• 1	Red	~	
0 2	Green	~	
O 3	Blue	~	
General color piece	hip " smart scan in module ch e is normal phenomenon, can	iip, display on the left may show abr continue smart scan	normal,
The lite version	(4.1.x.x) does not support sr	nart scan Back Next	Cancel

Step 5

Count the number of rows (or columns) lit on the LED screen, enter the number of rows (or columns) lit, and click "Next".



	the glow of the rows[demo mode]	
Display change		
How many row(s) are lig	ghting in a module?	
64	•	
General chip module color piece, is normal	chip" smart scan, display on the left may show ab phenomenon,continue smart scan operation.	normal, have
General chip module color piece, is normal	chip" smart scan, display on the left may show ab phenomenon,continue smart scan operation.	normal, have
General chip module color piece, is normal	chip" smart scan, display on the left may show ab phenomenon,continue smart scan operation.	normal, have

Step 6

Count the number of rows (or columns) lit on the LED screen again, and click "Next".



How many r	row(s) are lighting in	n a module?			
1		•			
General of	chip " smart scan in	module chip, displa	y on the left ma	ay show abnorm	ial,

Step 7

Based on the points lit up on the LED screen, click the small squares at the corresponding positions on the interface until all the lit points are clicked. Then, select 'Scan Settings' as shown in the figure below. Click 'OK', and the system will display the recommended scanning method. Users can save this method to complete the intelligent scanning.



4. Introduction to the scan parameter button

At the bottom of the "Scan parameters" interface, there are "Import parameters", "Export parameters", "Read back specified parameters", "Quick send parameters", "Send parameters", "Parameter solidification" buttons, as shown in the following figure:

evice list (2)	Scan parameters Receive	e card connection				
 Screen-1 (OVP-G32) 	Receiving card type BX-V75H	1/V75/V75L ~				 Gamma correction
SplitScreen 1	Module parameter					Advanced
SplitScreen 2	Module size	Driver chip (500)	Row decode chip	Scan mode	Select modules	- Other
SplitScreen 3	32W * 32H	General chip	74HC138	32scan	Module details	White balance
SplitScreen_4	Module cascade direction	Color channel	Data polarity	OE polarity		
Spinscreen_4	From right to left ~	R - G - B ~	Positive ~	Low ~	Smart scan	
(OVP-K4 Rev C)	Cabinet design	0				
SplitScreen 1	Conventional cabinet	0	Special enclosure			
SplitScreen 2	Width	Height				
SplitScreen 3	128 <=167	96 -= 1024	😭 Data set expansion		Factory mode	
SplitScreen_4	Performance settings					
spinscreen_4	Display mode	Brightness mode	Accelerate rate	Visual refresh rate	Data group	
	Refresh rate priority ~	Highly bright ~	8 ~	480 ~	Normal ~	
	Shift clock(MHz)	Duty ratio(%)	Gray scale	Clock phase	Level of effect	
	15.63 ~	50.00% ~	4096 ~	0	14	
	Frame rate(Hz)	Brightness efficiency(%)	Minimum OE		Double clock	
	60	65.35	10		Disabled ~	
	Vanishing Wrap time Actual val(ns) 10 3 80	Row blanking time Actual va	(ns) Row break time Actual 20 160	val(ns) ✔ linkage ①		
	× 00	• 100	× 100	w inikaye ()		
			Import Parameters	wort Daramaters Dand bas	k the specified parameters	ad Parameters Parametric cu

- Import parameters: Import all parameters of the receiving card.
- Export parameters: Export all parameters of the receiving card.

- Read back the specified parameter: Read back the specified parameter of the specified receiving card under the specified network port.
- Quick sending parameters: only performance parameters and chip parameters are sent, and there is no need to send and receive card connection again after modification.
- Send parameters: send all the receiving card parameters.
- Parameter solidification: The receiving card parameters are solidified. After the parameters are solidified, they can be read back for the next use. It is recommended that the receiving card parameters and connection debugging are solidified after normal use.

6.5.3. Receiver card connection

6.5.3.1. Standard connection

 Click "Receive card connection" to enter the receive card connection interface. You can set the number of horizontal and vertical receive cards according to the actual situation. The default connection mode is standard connection, as shown in the figure below.

												— D	×
Scan parameters R	eceive ca	ard connectior											
Standard connection ~	Re	b C voke Recov	ery Sho	S	Show route	C (X) Rt Empty) d mode	Manualencing	Choose	(?) Help	w	128	▲ ▼
Screen starting position		1	2	3	4	5	6				н	96	*
X 0 +		W:128 H:96	W:128 H:96	W:128 H:96	W:128 H:96	W:128 H:96	W:128 H:96				C) Em	npty card	
Number of receiving card Columns 6 Rows		W:128 H:96	W:128 H:96	W:128 H:96	W:128 H:96	W:128 H:96	W:128 H:96				D i	ata set expa	Insion
Copy screen											Se receive Se receive	end the curre er card para end the curre ver card ma	ent meters ent ipping
1-16 17-32 1 2 3 4													
5 6 7 8 9 10 11 12													
13 14 15 16													
Test chart		Calibration			Net	work port loade	d Send	specified conne	ctior	Send all connection	Pa	rametric cu	ring

2. Set the width and height of the receiving card based on the actual dimensions of the LED screen it connects to, and configure the connection method. To do this, click 'Connection Line

3,' hold down the left mouse button, and drag the mouse above the receiving card's wiring diagram to select all receiving cards. After selecting all cards, configure the connection method by clicking' Send Specified Connection 'or' Send All Connections. 'This completes the configuration of the receiving card's connection, as shown in the figure below.

Scan parameters Rece	eive card connection									
Standard connection ~	S C Recovery	Shortcut_routing	Show route	Rt Empty) d mode Mar	nualencing	Choose Help	100% ~	W 128	^
Screen starting position	1	Routing 1	4	5	6				H 96	•
X 0		- S Routing 2								d
Y 0	₩:128 ₩: H:96 H:	1: S Routing 3	V:128 1:96	W:128 H:96	W:128 H:96					
		Routing 4							😭 Data set e	expansion
Number of receiving cards		N Routing 6	20040							
Columns 6	W:128 W: H:96 H:	1: 0 Routing 7	V:128 1:96	W:128 H:96	W:128 H:96					
Rows 2		N Routing 8								
		Z Routing 9	1000	1 1						
Copy screen									Send the c receiver card p	current parameters
0										
Network port									Send the or receiver card	urrent mapping
1-16 17-32										
110 17 52										
1 2 3 4										
5 6 7 8										
9 10 11 12										
13 14 15 16										
Test chart	Calibration		Net	work port loaded	d Send spe	ecified connect	tior Send all c	onnection	Parametric	c curing

3. When there are more receiving cards connected, if the user wants to know the connection status of the receiving card, he can view the connection line function through the receiving card connection display. As shown in the following figure



							– 🗆 X
Scan parameters Rece	eive card connectio	n					
Standard connection ~	S C Revoke Recov	very Shortcut_routing	Show route, R	Emptyd mode	Manualencing	ose lep 100% ~	Serial number: P3-6
Screen starting position	1	2 3	4	5 6			W 128
X 0	P1-6	P1-5 P1-4	P1-3 P	P1-2 P1-1			H 96 🔹
Y 0	W:128 → H:96	W:128 W:128 H:96 H:96	W:128 W	W:128 W:128			05.1
							Empty card
Number of receiving cards	P2-6	P2-5 P2-4	P2-3 P	P2-2 P2-1			Data set expansion
Columns 6	W:128 N H:96 ■	W:128 W:128 H:96 H:96	W:128 W H:96 H	W:128 W:128 1:96 11:96 S			
Rows 3							
	P3-6	P3-5 P3-4	P3-3 P	P3-2 P3-1			
Copy screen	m H:96 E	H:96 H:96	H:96	1:96 H:96 S			Cond the surrant
0							receiver card parameters
Network port							Send the current
1-16 17-32							receiver card mapping
1 2 3 4							
5 6 7 8							
9 10 11 12							
12 14 15 16					X		
14 15 10							
						4	
Test chart	Calibration		Networ	rk port loaded Ser	nd specified connectior	Send all connection	Parametric curing

4. Display the single network port connection line

When there are many connected network ports, users can first click and select the desired network port under 'Network Port' to view its connection lines. Then, click the icon 'Show Single Network Port Connection Lines' to see the connection lines of the specified network port. For example, if we need to view the connection lines of Network Port 2, as shown in the following figure:

Scan parameters Rece	eive card connection	
Standard connection ~	S S <td>se 100% ~ Serial number: P3-6</td>	se 100% ~ Serial number: P3-6
Screen starting position	1 2 3 4 5 6	W 128 🗘
Y 0 •	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Empty card
Number of receiving cards Columns 6 Rows 3	№ №	Tata set expansion
Copy screen	P3-6 W:128 P3-5 W:128 P3-4 W:128 P3-3 W:128 P3-2 W:128 P3-1 W:128 m H:96 H:96 H:96 H:96 H:96 H:96	Send the current receiver card parameters
Network port 1-16 17-32 1 2 3 4		Send the current receiver card mapping
5 6 7 8		
9 10 11 12 13 14 15 16		
Test chart	Calibration Network port loaded Send specified connection	Send all connection Parametric curing

5. Other icons

: Click the "Undo" icon to undo the previous step.

Click the "Restore" icon and click Restore the previous operation.

: ¹/ Click the "Wire" icon to wire each box in each interface.

: Click the "Select" icon, then the "Wire" icon will not be selected. At this time, click the box in the interface, no wire connection will be made, and you can easily view the properties of the box.

: Olick the "Empty card mode" icon to set the selected box to empty card mode.

: •/ Click the "Reset" icon to reset all receiving card connections.

: 100% - / Click on the list below and select the percentage displayed in the interface. For example, when there are many boxes, you can select 30% to view all the boxes.

6.5.3.2. Send all connections

Click "Send all connections" at the bottom of the interface to enter the send and receive card interface, you can select "all receive cards on the current screen" or "specified receive cards on the current screen".

Select "All receiving cards on the current screen" and click "Send".

Select "Current screen specified receiving card". If the user connects multiple receiving cards, and one of them fails and needs to be replaced, this function can be used to replace the sending card more conveniently.

In the "Send and receive card" interface, according to the position of the LED screen connected to the receiving card, select the replaced receiving card and click "Send" directly to load the screen parameters directly to this receiving card to complete the operation of replacing the receiving card. As shown in the following figure.



6.5.3.3. Parameter solidification

Check "Backup parameters to receiving card" in the "Parameter solidification" interface to solidify the parameters of the receiving card. After solidifying the parameters, it is convenient to read back the parameters for next use. It is recommended to solidify the parameters of the receiving card and the connection debugging after normal operation.

6.6. firmware upgrade

To ensure that the software version in the sending device matches the BXsetPro software, firmware maintenance of the sending device can be performed first.

6.6.1. Device firmware upgrade

In "Firmware Upgrade", click "Device", and then click "Query Device" button to find out the connected device, as shown in the following figure:

Т



Device list (2) Screen option Firmware update • OVP-G32) SplitScreen 1 SplitScreen 3 SplitScreen 1 SplitScreen 1 SplitScreen 1 SplitScreen 3 SplitScreen 3 SplitScreen 4 • OVP-G32 SplitScreen 3 SplitScreen 4 • OVP-G32 Firmware information Device type: OVP-G32	Synchronizing Device V25.03.13.00	- o x
Screen-1 Device Receiving card Multi-function card SplitScreen,1 SplitScreen,3 Device type: OVP-G32 SplitScreen,4 Cover,4 Karv C) SplitScreen,1 SplitScreen,3 SplitScreen,3 SplitScreen,4 Primware Information	Device list (2)	Screen option Firmware update
SplitScreen_1 Device type: OVP-G32 SplitScreen_2 SplitScreen_4	✓ □ Screen-1 (OVP-G32)	Device Receiving card Multi-function card
SplitScreen_2 SplitScreen_4 C(VVP-K4 RevC) SplitScreen_1 SplitScreen_2 SplitScreen_2 SplitScreen_3 SplitScreen_4 Firmware information	SplitScreen_1	Device type: OVP-632
SplitScreen_3 SplitScreen_2 SplitScreen_1 SplitScreen_2 SplitScreen_3 SplitScreen_2 SplitScreen_4 Firmware information	SplitScreen_2	
SplitScreen_4 SplitScreen_1 SplitScreen_2 SplitScreen_3 SplitScreen_4 Firmware information Running time Query device Loading firmware Upgrade	SplitScreen_3	
Screen-2 SplitScreen_1 SplitScreen_2 SplitScreen_3 SplitScreen_4 Firmware information Image: SplitScreen_2 SplitScreen_4	SplitScreen_4	
SplitScreen_1 SplitScreen_2 SplitScreen_4 Firmware information Kunning time @uery device @Upgrade	✓ □ Screen-2 (OVP-K4 Rev C)	
SplitScreen_2 SplitScreen_3 SplitScreen_4	SplitScreen_1	
SplitScreen_3 SplitScreen_4 Firmware Information	SplitScreen_2	
SplitScreen_4	SplitScreen_3	
Firmware information	SplitScreen_4	
Firmware information		
Firmware information		
Firmware information Firmware information Running time Query device Loading firmware Upgrade		
Firmware Information		
Firmware information		
Firmware information		
Running time Query device Loading firmware Upgrade		Firmware information
Running time Query device Loading firmware Upgrade		
Running time Query device Loading firmware Upgrade	-	
Running time Query device Loading firmware Upgrade		
Running time Query device Loading firmware Upgrade		
		Running time Query device Loading firmware Upgrade
Save Close		Save Close

Then select "Load firmware" and select the upgrade program for the corresponding device. Finally,

click "Upgrade" to complete the update of the device program.

6.6.2. Receive card firmware upgrade

In "Firmware Upgrade", click "Receive Card", and then click "Query Receive Card" button to

find out the connected receive card, as shown in the following figure:

Synchronizing Device V25.03.13.	00									$ \Box$ $>$
Device list (2)	Screen option	Firmware update	e							
✓ □ Screen-1 (OVP-G32)				Device	Rec	ceiving card	Multi-function car	b		
SplitScreen_1	7;18;19;20;21;2	22;23;24;25;26;27;2	8;29;30;31;32;						Total quantity of	of receiving cards:
 splitScreen_2 SplitScreen_3 Spren-2 (OVP-K4 Rev C) SplitScreen_1 SplitScreen_2 SplitScreen_3 SplitScreen_4 	Port	Receiving card	Controller model	FPGA	МС	Function	code	Supporting chip	State	Data packet
	Firmware inform	ation								*
	Count reset						Quer	receiving card	Loading firmware	Upgrade
									Save	Close

Then select "Load firmware" and select the upgrade program for the corresponding device.

Finally, click "Upgrade" to complete the update of the device program.

6.6.3. Multi-function card firmware upgrade

In "Firmware Upgrade", click "Multi-function Card", and then click "Query Multi-function Card" button to find out the connected multi-function card, as shown in the following figure:

Synchronizing Device V25.03.13.	00						- 0	ı ×
Device list (2)	Screen option	Firmware update						
✓ □ Screen-1 (OVP-G32)			Device	Receiving card	Multi-function card			
SplitScreen_1	Seria	al number Network por	t Multifunction card Serial number	Controller mode	el Version	St	ate	
SplitScreen_2								
SplitScreen_3								
SplitScreen_4								
✓ □ Screen-2 (OVP-K4 Rev C)								
SplitScreen_1								
SplitScreen_2								
SplitScreen_3								
SplitScreen_4								
	Firmware inform	ation						\approx
					Query multi-function card	Loading firmware	Upg	rade
						Save		Cloco

Then select "Load firmware" and select the upgrade program for the corresponding device.

Finally, click "Upgrade" to complete the update of the device program.

7. Video processor Settings

Step 1 Click the "Video processor Settings" button;

Step 2 If the device is online, you can select "Online mode", and if the device is offline, you can

select "Demonstration mode";

Step 3 Enter the password "888" to enter the configuration interface.

7.1. Source EDID Settings

Step 1 Click on the source and right click



OVP-K	4 Rev.CVideo Proc	essor Setup(demo mode)									-	
Device	User mode	Advanced											
	*												
Device	Screen setting	Turn on	Turn off	Correct time	Brightness	Volume	Image quality						
Device	Screen Secury	Turri on		concer and	brightness	Volume	inage quarty				Imago lict (1)	
Signal	source		Screen size:	1280-1024						Add Image	Indge list (1)	
	HDMI										1		
HDMI	1.4 No signal				Image1			7			Image1		
	DVI				HDMI SourceNo sign:	al							
DV	No signal				Image: 10 281 6	40x512							
•	VGA										Image para	meters	
VG	A No signal										ID:	1	
0	CV										Name:	Image1	
CV	No signal										X:	0	
	USB										Y:	28	
USE	В										W:	640	
											H:	512	
											Hierarchy	y: 1	
											Cron	Edit	
											crop	Luic	2
												Black scr	ee
												🎯 Freeze	2
												••• Point to p	0
								Import parameter	file Export parameter file	Save as user mo	de Read ba	ick parameter	ž

Step 2 Click "EDID" Settings

📴 OVP-K	4 Rev.CVideo Pro	cessor Setup(d	emo mode)							
Device	User mode	Advanced								
	1	\bigcirc	\bigotimes	P						
Device	Screen setting	Turn on	Turn off	Correct time	Brightness	Volume	Image quality			
🖗 Signal s	source		Screen size	: 1280*1024						Add image
	HDMI No signal DVI No signal VGA No signal	EDID se	et e		Image1 Source <mark>N</mark> o signa Image: [0,28] 6	al 40x512				
	CV No signal									

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	A Rey (Video Pro	cassor Satura	demo mode)										_	
Device	User mode	Advanced	demo mode)											
Construction Const	Screen setting	U Turn on	X Turn off	Correct time	Brightness	Volume	Image quality							
🖗 Signal :	source		Screen size:	1280*1024							Add image	Image list (1)	
HDMI	HDMI No signal				EDID settin	gs		×				1 Image1		
DV	DVI No signal				EDID signa	l source	HDMI	~						
VG/	VGA No signal				Width		768	•				Image para	meters	
CV	CV No signal				Field freque	ency (Hz)	60	*				Name: X:	Image1 0	
USE	USB						ОК	Cancel				Y: W:	28 640	
												H: Hierarch	512 /: 1	
												Crop	Edit	en
													Freeze	
													⊶ Point to po	int
			_					In	port parameter file	Export parameter fi	Save as user mo	de Read ba	ck parameters	

7.2. Set screen parameters

B OVP-K	4 Rev.CVideo Pro	cessor Setup(c	lemo mode)											
Device	User mode	Advanced												
Device		U Turn on	X Turp off	Correct time	Brightness	Volume		uality						
Signal o	Source	ramon	Screen size	· 1280*1024	blighticss	Volume	inage q	uuncy					Add ima	II on
			Screen size	. 1200 1021									Add Inte	ige
HDMI	1.4 No signal				📴 Screen pa	rameter set	ting				×			
DV	DVI No signal				Led scre	en								
VGA	VGA No signal				w h	280	A	Н	1024	A				Ir
CV	CV No signal													
USE	USB				∆ Sc Sc Wi	reen width reen heigh th load: sc	< = 3840 t $< = 2500$ treen width	; ; x screer	height •	< = 262millio	n			
								OK		Cancel				
					0kb/s		Send Pro	gress						_
							_	_			_	 		

7.3. User mode



📴 OVP-K4 Rev.CVideo Processor Setup(demo mode)	
Device User mode Advanced	
2 3 4 5 5 7 8 User mode: User mode: User mode! User	
	Add image
HDMI 1.4 No signal Image1	
DVI SourceHDMI SourceHDMI	
VGA VGA No signal	
CV CV No signal	
USB USB	

7.4. Advance function



Frequently asked questions

Problem phenomenon	Check and adjust item details
The LCD screen has no display and no image output.	Check for poor contact of power cord.Check if the power switch is on.
The LCD screen has information display, but no image output.	 Check that the input signal is correctly connected and that the corresponding signal source has been switched. Check whether the display terminal supports the output resolution and refresh rate of this device. Check that the brightness and contrast are not set too low.
Images on the LED screen cannot be displayed in full screen.	 Check whether the values of "LED screen width" and "LED screen height" are consistent with the physical resolution of LED screen. Enter the "Image output" menu to set parameters.
The LED screen image is displayed in the center with black edges around it.	This problem occasionally occurs when using a computer graphics card as a VGA/DVI/HDMI input source. If it is a VGA signal source, open "VGA correction" in BXsetpro debugging software to adjust. If it is a DVI/HDMI signal source, click "Adjust desktop size and Settings" in the graphics card control panel and select "Full screen".
The button key function does not respond.	• Check whether the key lock is locked (icon) by looking at the information displayed on the LCD screen. At this time, enter the main formenu and set the key lock to unlock state in the "Advanced" menu (icon).



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