

User Manual



HD-VP1240A

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Chapter 1 Interface connection

1.1 Front panel

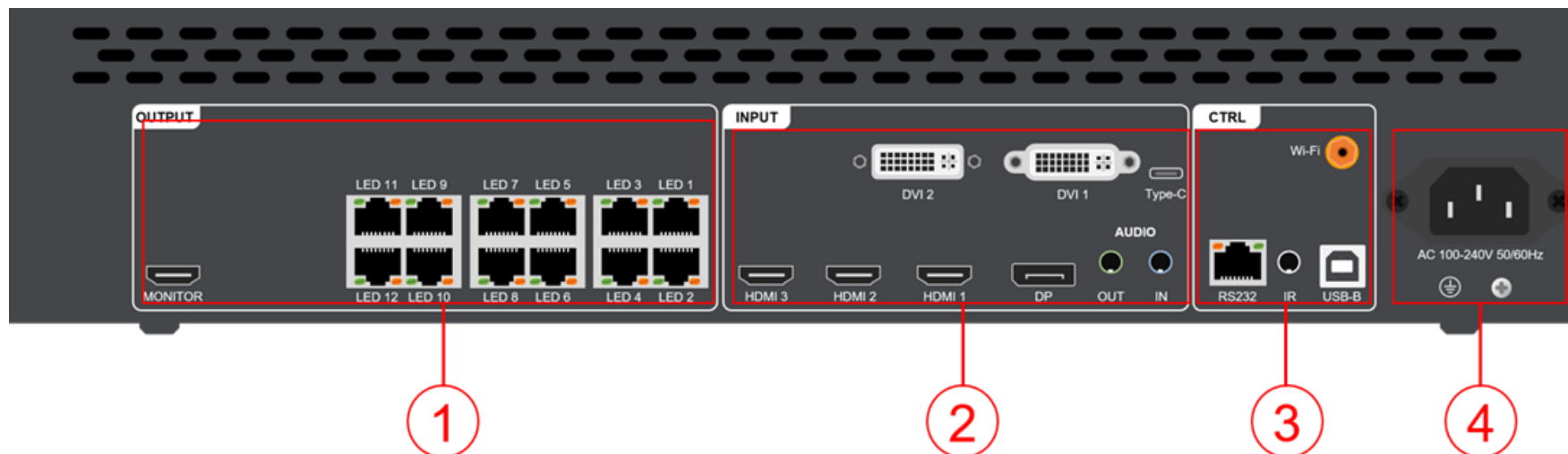


Key Description		
No.	Item	illustrate
1	switch	Control AC Power Input

2	LCD display	Debug display menu, screen parameters and other information
3	IR&MIC	IR: infrared remote control receiver MIC: microphone voice input (optional)
4	Multi-function button	Select menus, adjust screen parameters, and confirm operations
5	MENU	WIN1~WIN4: Select the opened screen window MODE: Quickly call out the preset mode call menu BRIGHT: Enter the image effect setting interface ESC: exit/return key FREEZE: One-click screen freeze BLACK: One key black screen button Function key, key multiplexing function is digital selection, generally used when setting the resolution

6	SOURCE	Input signal selection area
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1.2 Rear Panel



Input interface			
No.	Interface	quantity	illustrate

	name		
2	Type-C	1	<p>type-C input interface</p> <p>Interface form: Type-C</p> <p>Signal standard: DP1.2 backward compatible</p> <p>Resolution: VESA standard, $\leq 3840 \times 2160 @ 60\text{Hz}$</p> <p>support audio input</p> <p>Note: Type-C and DP share a button, and the default is DP mode. If you want to turn on Type-C, you need to go to [Advanced Settings] to turn it on. For specific operations, please refer to the operation manual</p>
	DP	1	<p>DP input interface</p> <p>Interface form: DP</p> <p>Signal standard: DP1.2 backward compatible</p>

			Resolution: VESA standard, $\leq 3840 \times 2160 @ 60\text{Hz}$
	HDMI	3	<p>HDMI2.0 input interface $\times 1$ (HDMI1)</p> <p>Interface form: HDMI-A</p> <p>Signal standard: HDMI 2.0 backward compatible</p> <p>Resolution: VESA standard, $\leq 3840 \times 2160 @ 60\text{Hz}$</p> <p>Support audio input</p> <p>HDMI1.4 input interface $\times 1$ (HDMI2)</p> <p>HDMI1.4 input interface $\times 1$ (HDMI3 optional)</p> <p>Interface form: HDMI-A</p> <p>Signal standard: HDMI 1.4 backward compatible</p> <p>Resolution: VESA standard, $\leq 3840 \times 2160 @ 30\text{Hz}$</p> <p>Support audio input</p> <p>Note: Choose one of HDMI3 and projection function</p>

	DVI	2	<p>DVI input interface</p> <p>Interface form: DVI-I socket</p> <p>Signal standard: DVI1.0, HDMI1.3 backward compatible</p> <p>Resolution: VESA standard, PC to 1920x1080, HD to 1080p</p> <p>Note: Standard DVI1 (DVI2 and SDI can only choose one of the two)</p>
2	Screen Cast	1	<p>Resolution: Up to 1080p/1920×1200</p> <p>Refresh rate: Max 30fps</p> <p>Whether to support APP: support</p> <p>Software projection: support</p> <p>Launcher: support</p> <p>Transmission distance: up to 20M between the</p>

			transmitter and the host Frequency band: 2.4GHz or 5GHz (default 5GHz) Video output: HDMI output, adjustable resolution Wireless transmission protocol: IEE802.11ac/802.11n
2	AUDIO IN	1	TRS 3.5mm two-channel audio input interface
4	Power	1	AC 100 ~ 240V, 50/60Hz

Output interface			
No.	Name	quantity	Description
1	Gigabit Ethernet port	12	Used for cascading receiving cards to transmit RGB data stream The control range of each network port is 650,000 pixels.
1	MONITOR	1	HDMI OUT for monitoring what is playing on the display

2	AUDIO OUT	1	TRS 3.5mm two-channel audio output interface Connect to an audio amplifier for high-power audio output
2	SDI-LOOP	1	SDI signal loop out interface (optional) Interface form: BNC Signal standard: SD-SDI, HD-SDI, 3G-SDI Resolution: VESA standard, $\leq 1920 \times 1080 @ 60\text{Hz}$

Control interface			
No.	Name	quantity	Description
3	USB-B	1	Connect to a computer for debugging the device
	RS232	1	Connect central control equipment for centralized control
	Wi-Fi	1	Connect Wi-Fi Antenna
	IR	1	Used to connect an external infrared remote control

			extension cable
	4G	1	For connecting 4G antenna (optional)
	SIM	1	SIM card slot (optional) Currently only standard cards are supported: the size is 25mm×15mm×0.8mm
1	Screen Cast Wi-Fi	2	For wireless projection

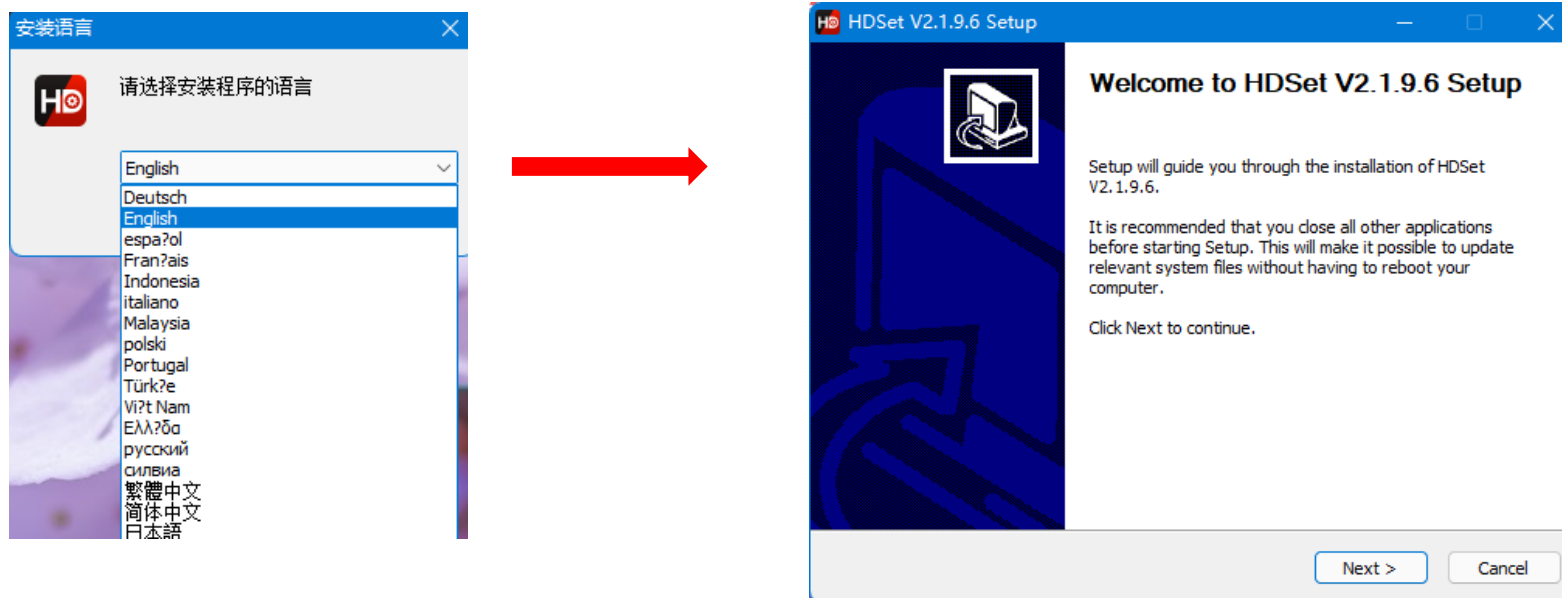
1.3 Hardware connection



Chapter 2 HDSet installation

Please download the installation package of HDSet software from Huidu's official website www.huidu.cn, and complete the installation according to the diagrams below:

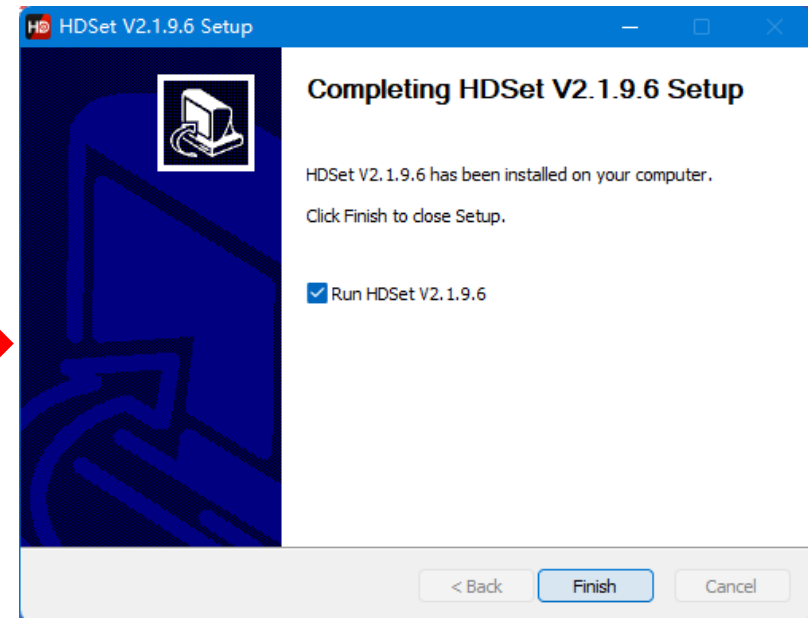
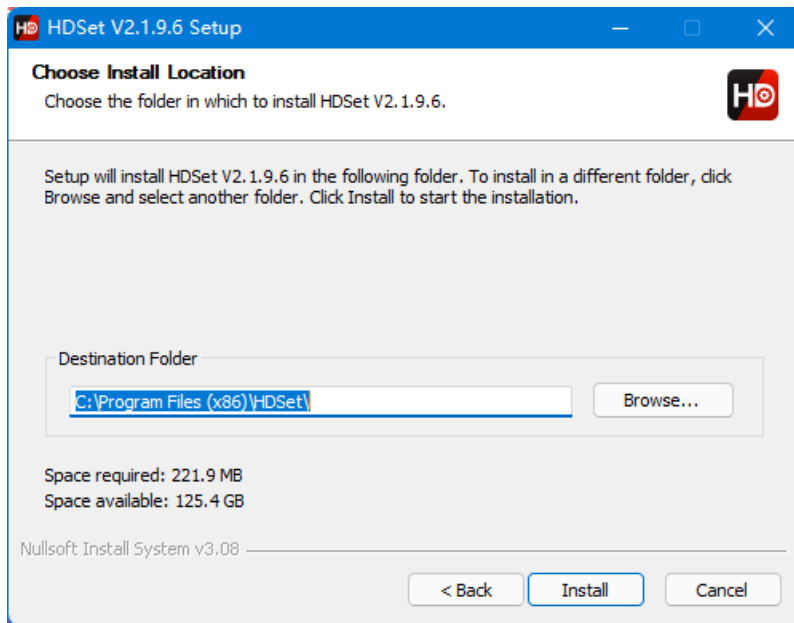
1.Run the software package,then select language for installer. Click [OK] to go on.



2. After selecting a language, an installation wizard like below will appear. Click [Next].

Choose the installation location, click [Browse] to change the default target location, then click [Install] after completing;

After the installation is complete, you are ready to use HDSet.



Chapter 3 HD-VP1240A Parameter settings

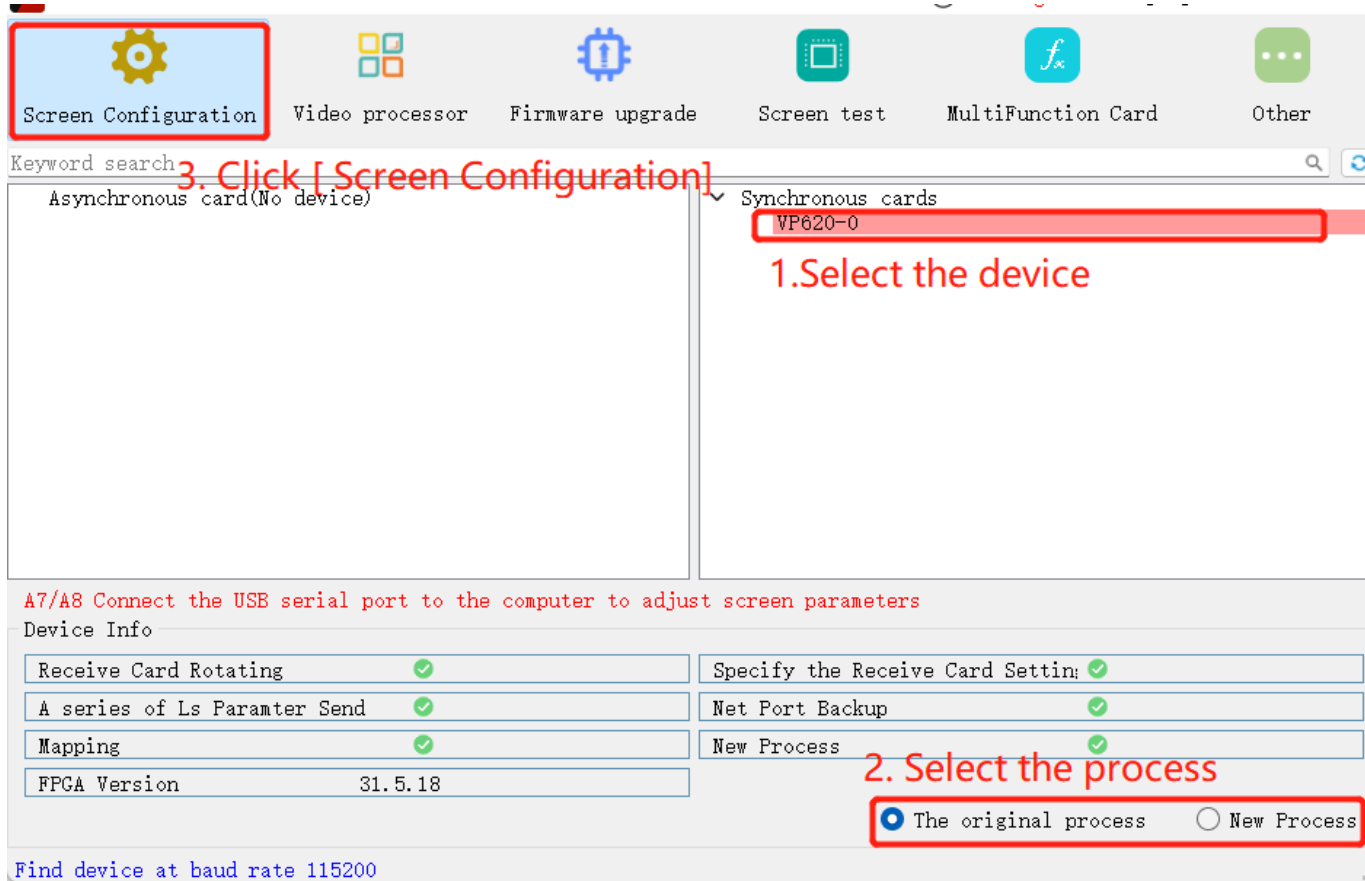
3.1 Connection

Connect the VP1640A to the computer by USB-B type cable.



3.2 Screen Configuration

1. Run HDset software, then select device and process, click [Screen Configuration].



The screenshot shows the 'Screen Configuration' interface. At the top, there is a navigation bar with icons for 'Screen Configuration', 'Video processor', 'Firmware upgrade', 'Screen test', 'MultiFunction Card', and 'Other'. The 'Screen Configuration' icon is highlighted with a red box. Below the navigation bar is a 'Keyword search' field. The main area is divided into two panels: 'Asynchronous card (No device)' on the left and 'Synchronous cards' on the right. The 'Synchronous cards' panel contains a list with one item, 'WP620-0', which is highlighted with a red box. Below the panels, there is a red warning message: 'A7/A8 Connect the USB serial port to the computer to adjust screen parameters'. Underneath is a 'Device Info' section with a table of settings and their status (checked or unchecked). At the bottom, there is a 'Find device at baud rate 115200' button and a radio button selection for 'The original process' (selected) and 'New Process'.

3. Click [Screen Configuration]

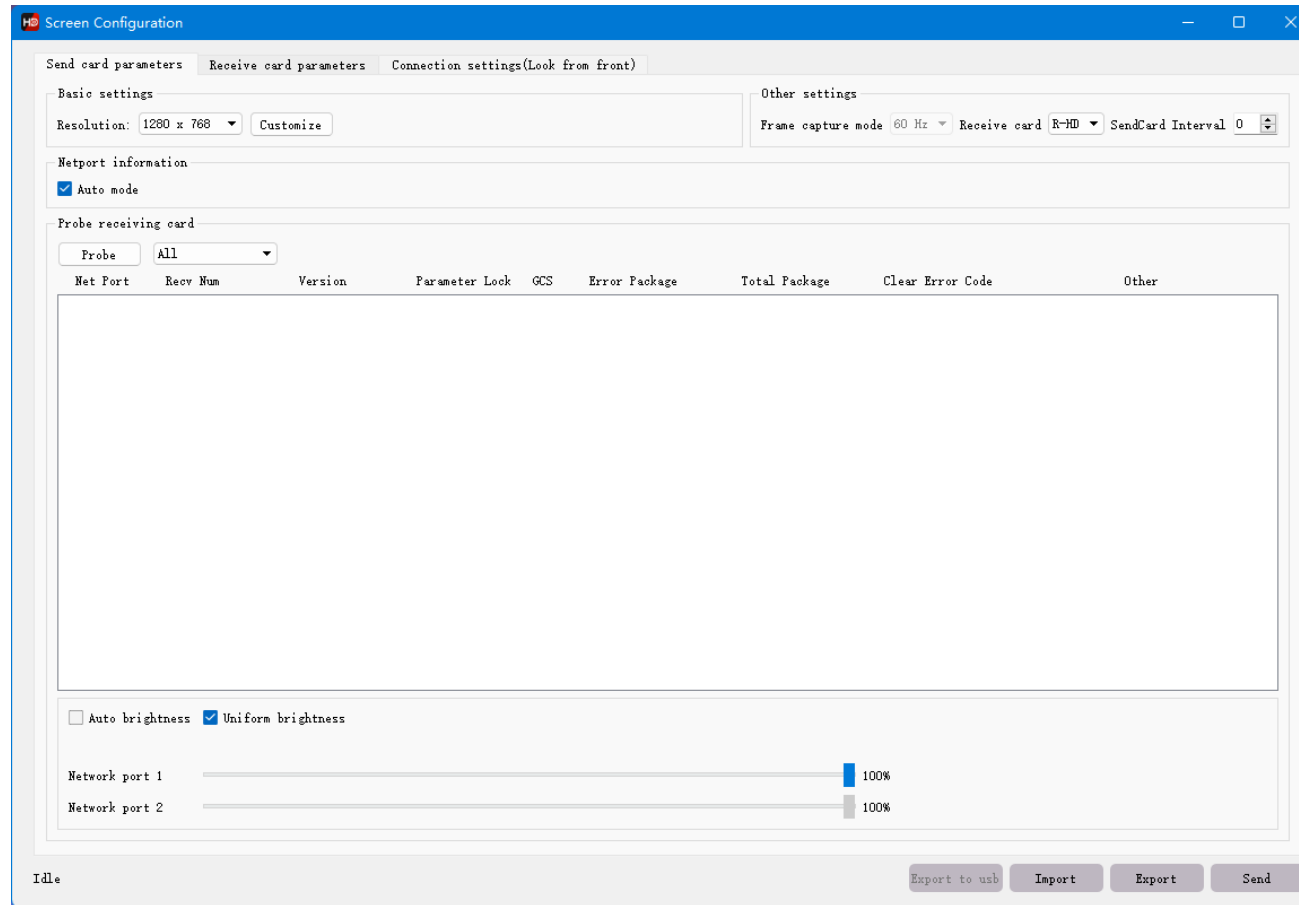
1. Select the device

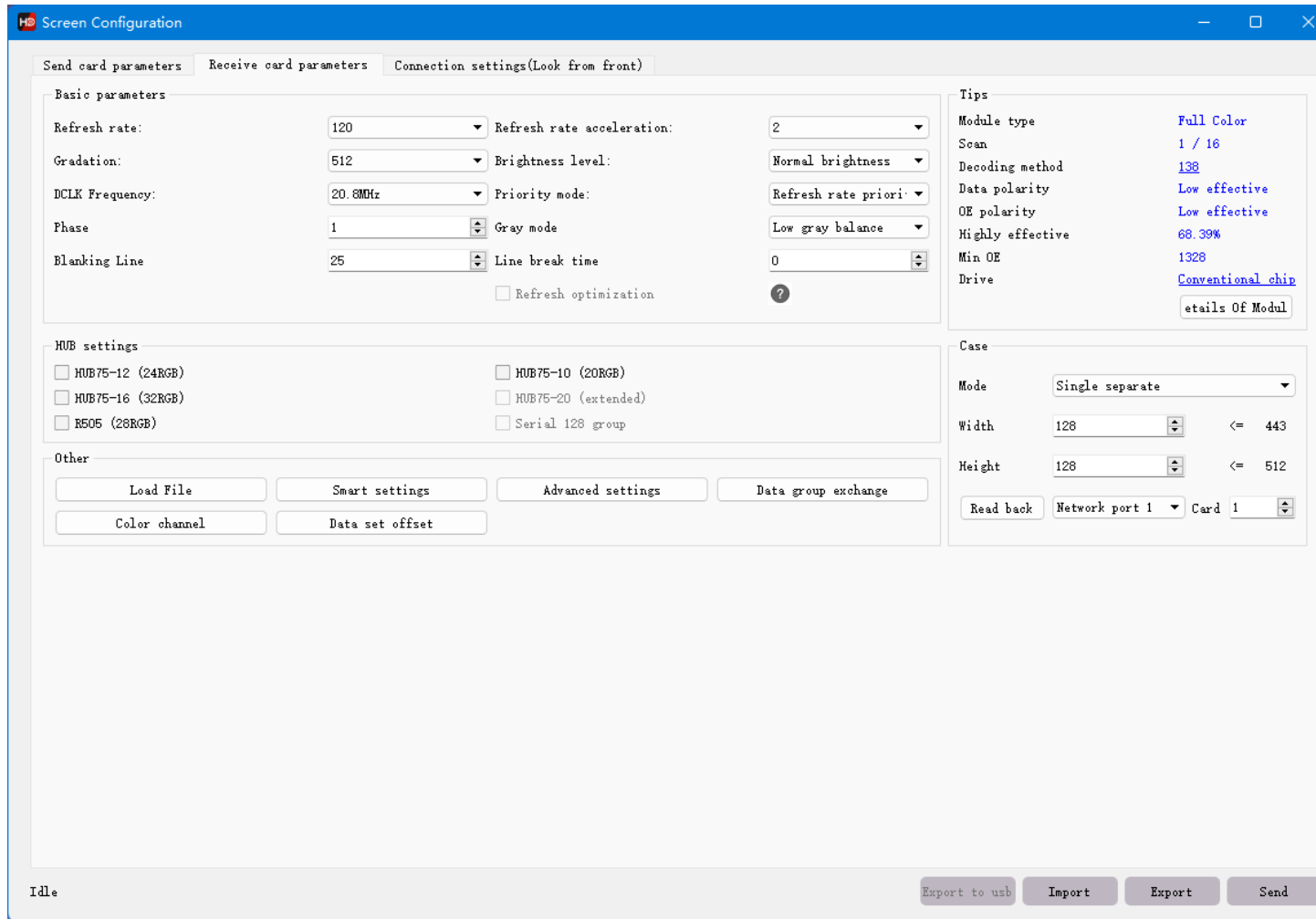
2. Select the process

Find device at baud rate 115200

Device Info	
Receive Card Rotating	✓
A series of Ls Paramter Send	✓
Mapping	✓
FPGA Version	31.5.18
Specify the Receive Card Setting	✓
Net Port Backup	✓
New Process	✓

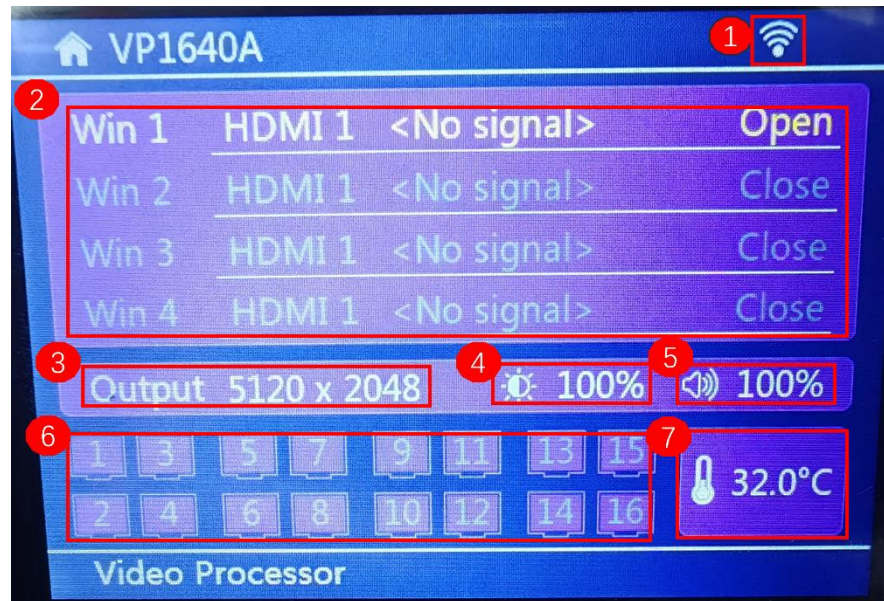
2. you can debug receiving cards.



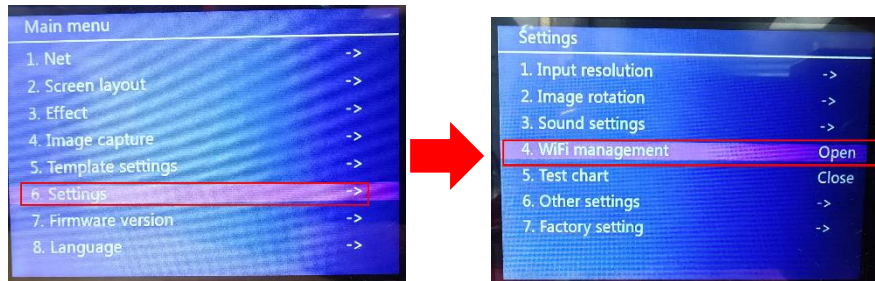


Chapter 4 HD-VP1240A Product Operation

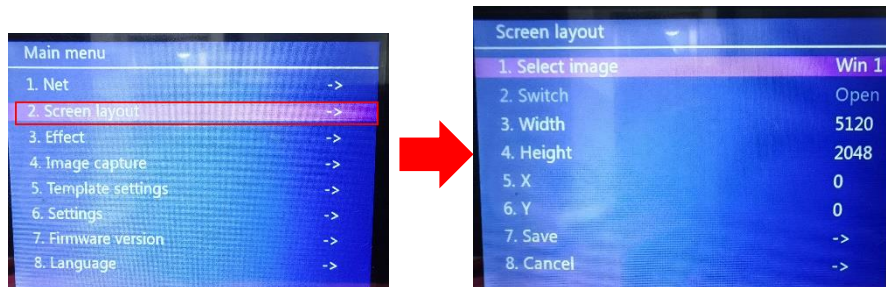
4.1 Interface Description



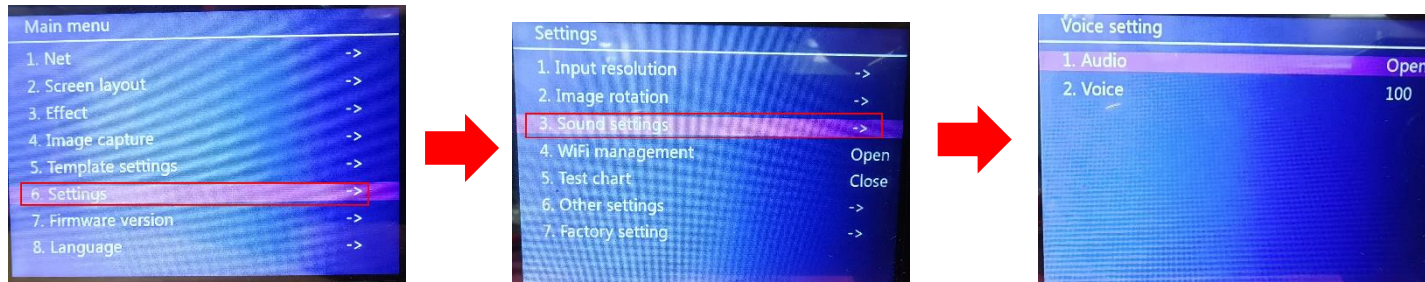
1. Wi-Fi, you can follow the steps below to turn on and off WiFi.



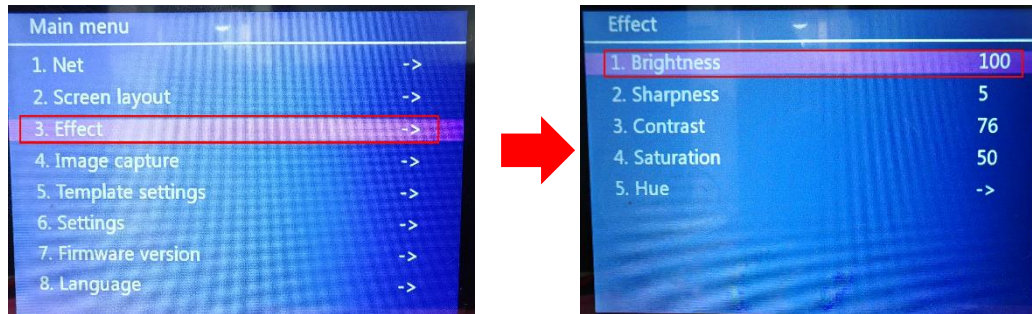
2. Input source for Win 1-4, input resolution and refresh rate. You can follow the steps to open windows.



3. Output resolution, output to screen resolution.
4. Screen layout, show the screen layout of the current window.
5. Sound, you can adjust the volume by the following steps.



6. Brightness, the screen brightness, you can adjust the brightness by the following steps.



7. LED Network port, display the number of network ports currently in use.

8. Temperature, show the temperature inside the processor.

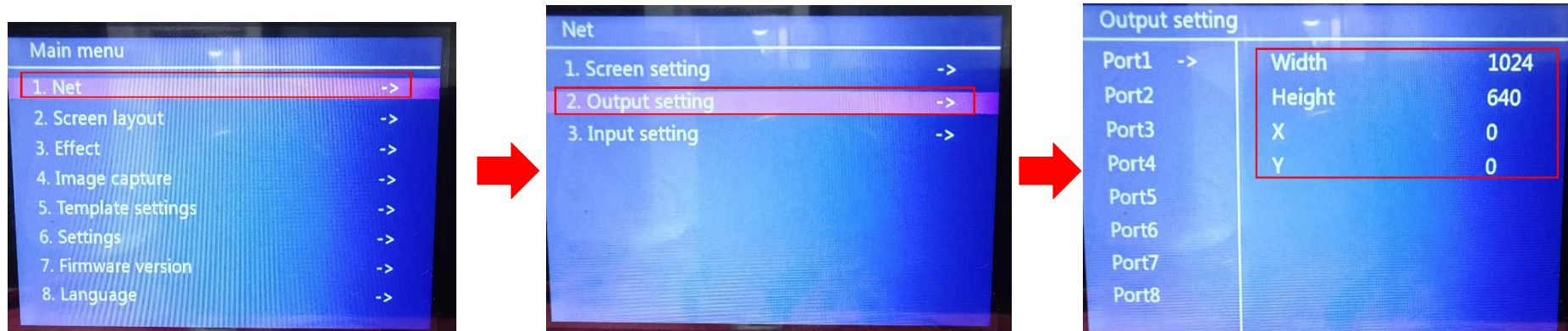
4.2 Input source switching



The HD-VP1240A supports simultaneous access to six signal sources, and can switch to the input source that needs to be played at any time as required. You can quickly switch by pressing the key in the "SOURCE" area of the front panel.

4.3 Net

4.3.1 Output



Output settings are used to set the coordinates and range of the network port.

Horizontal width: 1024—the width of the LED screen;

Vertical height: 640—the height of the LED screen;

X: Horizontal start: setting parameter range = LED screen width-horizontal width;

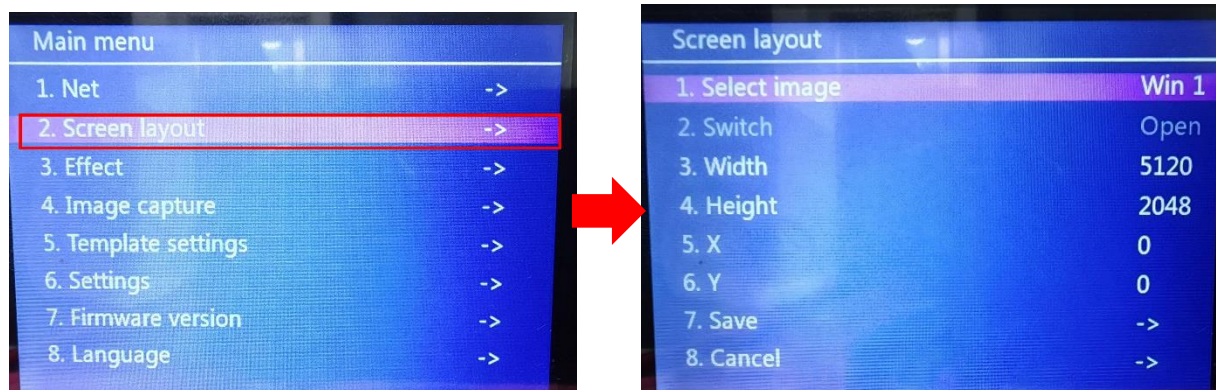
Y: Vertical start: setting parameter range = LED screen height-vertical height;

4.3.2 Input setting



The connection relationship is set as the connection relationship processing of the receiving card. Currently, only standard general mode is supported, and complex connection relationships are not supported.

4.4 Screen layout

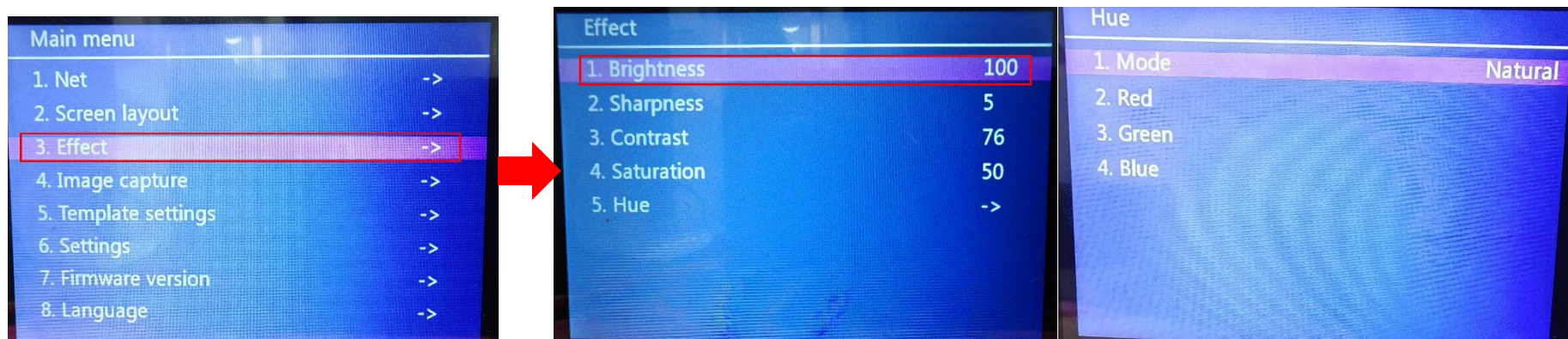


The screen switch setting of screen 1 cannot be set to off.

Horizontal starting value + horizontal width cannot exceed the width of the LED screen.

The vertical starting value + vertical width cannot exceed the height of the LED screen.

4.5 Effect



Brightness: 0-100 default 100

Sharpness: 0-10, default 5

Contrast: 0-100, default 76

Saturation: 0-100, default 50

Hue: Natural,warmer,, colder, customize. Default: Natural

4.6 Capture



When the intercept switch is off, the knob cannot select the intercept width, height, horizontal, and vertical start.

Intercept width: 960—Maximum width of input source

Intercept height:540—Maximum height of input source

X: Horizontal start: horizontal start value range = input source width-interception width

Y: Vertical start: vertical start value range = input source width-interception width.

Note: If the size of the captured screen is the same as the screen size, it will be displayed point-to-point. If the size of the captured screen is different from the screen size, it will be displayed by zooming.

4.7 Template setting

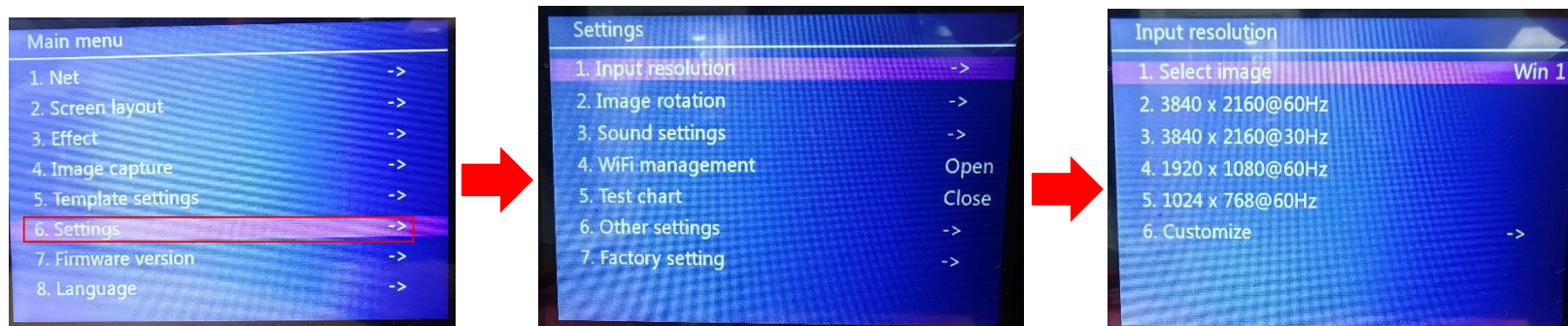


You can save up to 8 templates. '★' mean this teamplate is already occupied.

Existing templates support replacement, deletion, and loading non-existent template option, supports saving up to 8 template files

4.8 Settings

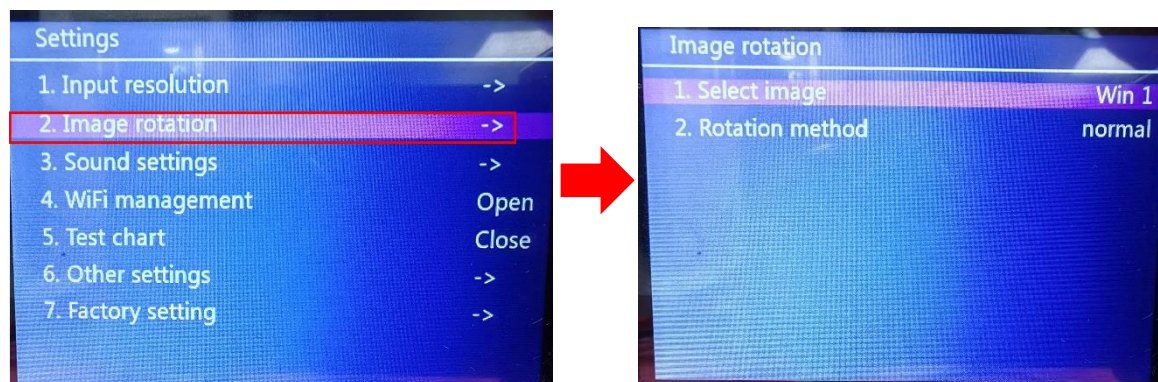
4.8.1 Input resolution



Supports three sets of general resolutions and supports custom resolution settings.

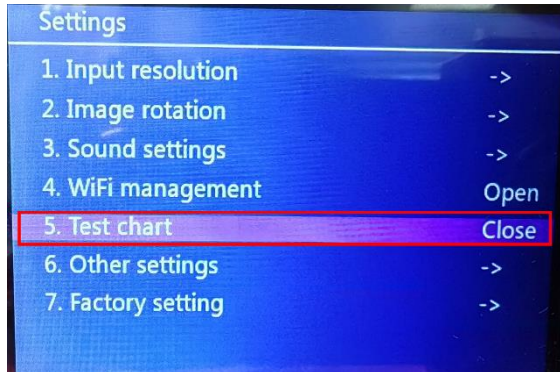
The default is 60Hz.

4.8.2 Image rotation



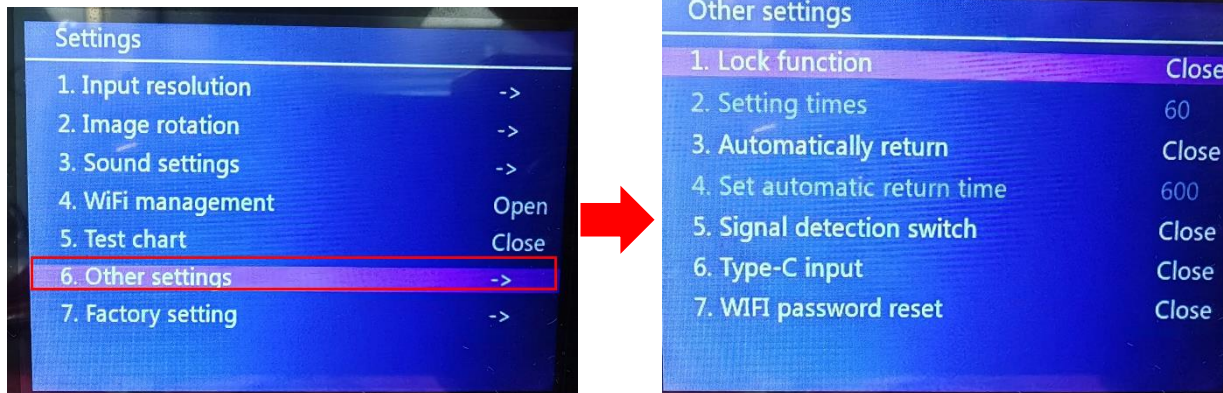
Select the window that needs to be rotated, support normal, Horizontal mirror, Vertical mirror, HV mirror.

4.8.3 Test Chart



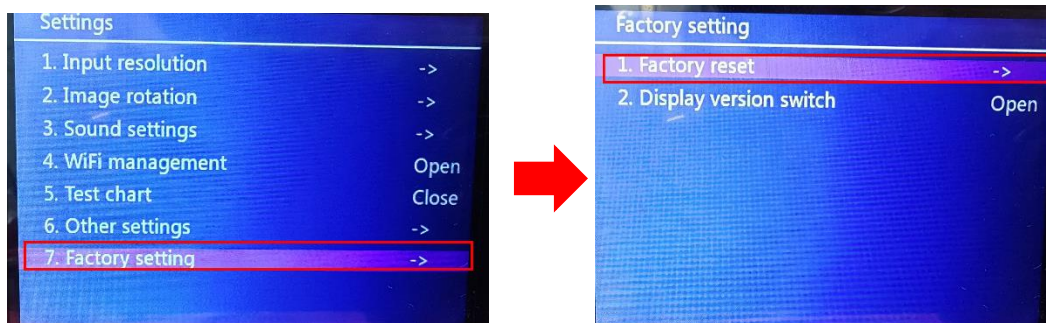
Support testing color.

4.8.4 Other settings



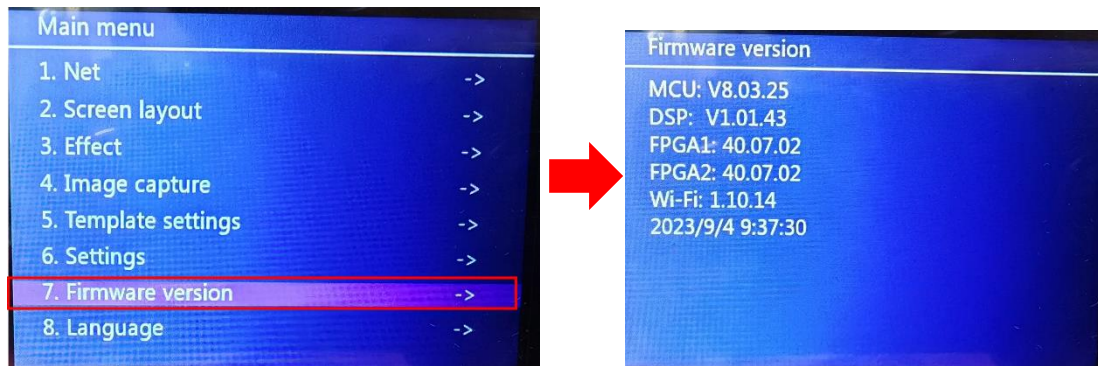
The key lock, the maximum support time is 3600 seconds, the key lock is automatically locked after the set time, except that the key lock button functions normally, other buttons are locked, and the function does not work, the button of “LOCK” will light up, you can press the “LOCK” button to unlock.

4.8.5 Factory setting



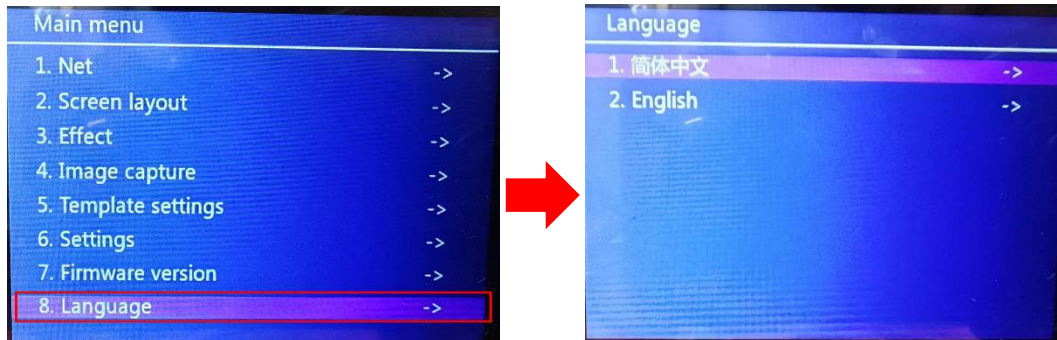
Restore the device to factory settings.

4.9 Firmware version



Check the device's MCU, DSP ,FPGA and Wi-Fi version.

4.10 Language



Language selection: support English, Chinese.