

User Manual



HD-VP820

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Chapter 1 Interface connection

1.1 Front panel



No.	Button	Function Description
1	Power Button	Device power switch button

2	LCD screen	Display device menu information
3	Input Source Select keypad	6 buttons [DVI] ~ [DP], 5 input source port selection buttons, corresponding to the input interface identification on the back panel. Among them: when you press BLACK and the BALCK LED indicator is on, the output is in a black screen state.
4	Function setting keypad	[BRIGHT]: Quickly swap out the shortcut keys of the brightness adjustment menu. [FREEZE]: Shortcut key for screen freeze. [MODE]: Quickly pop up the preset mode call menu. [LOCK]: Quickly lock the keys to prevent miss operation. [PXP]: Quickly enter the dual picture layout menu. [REV]: reserved function keys.

5	Window selection button	[WIN1]- [WIN2]Button: You can select the opened screen 1~2 window, and the LED light indicates the currently selected window.
6	Menu Area	Short press the knob [OK] key: it means to enter the main menu or input confirmation. Turn the knob clockwise to increase or the next option, counterclockwise to decrease or the previous option. [GUIDE] key: can quickly switch out the "smart navigation" setting interface. Return key [ESC]: means to exit the current operation or option.

1.2 Rear Panel



Output

No.	Output Port	Quantity	Function
1	LED Network port	8	LED1-LED8: 6-way network port output interface, Connect to the LED screen receiving card, total pixels 5.2 million, Widest 8000 dots, Highest 3840dots.

Input

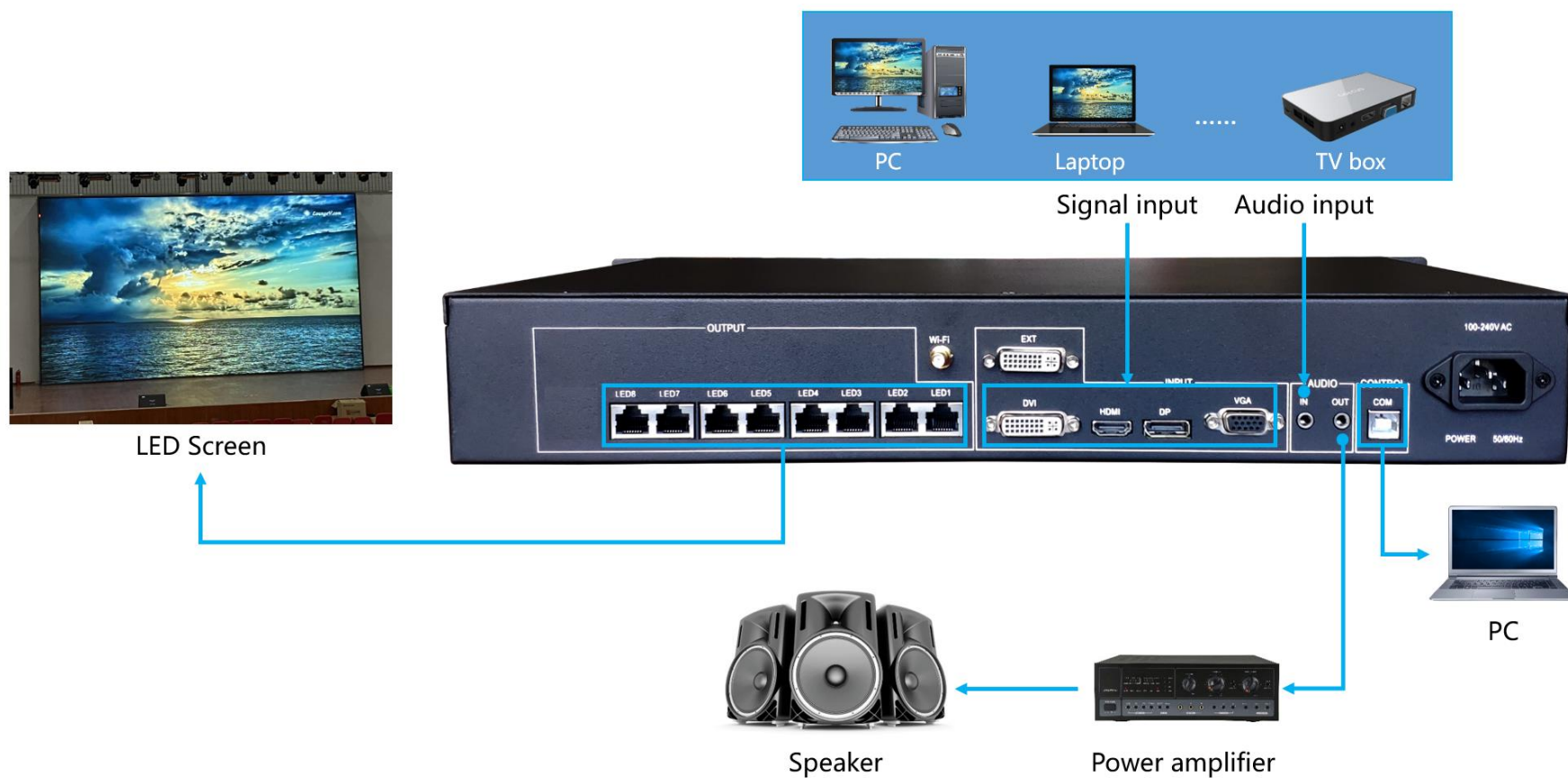
No.	Input Port	Quantity	Function
	EXT	1	Expansion input port, the default is DVI, HDMI or

2			SDI can be selected
	DVI	1	Interface form: DVI-I socket Signal standard: DVI1.0 Resolution: VESA standard, PC to 1920x1080, HD to 1080p
	HDMI	1	Interface form: HDMI-A Signal standard: HDMI2.0 backward compatible Resolution: VESA standard, $\leq 3840 \times 2160@60\text{Hz}$
	DP	1	Interface form : DP Signal standard:DP1.2backward compatible Resolution: VESA standard, $\leq 3840 \times 2160@60\text{Hz}$

	VGA	1	Interface form: DB15 socket Signal standard: R, G, B, Hsync, Vsync: 0 to 1Vpp $\pm 3\text{dB}$ (0.7V Video + 0.3v Sync) 75 ohm black level: 300mV Sync-tip: 0V Resolution: VESA standard, $\leq 1920 \times 1080\text{p@60Hz}$
No.	AUDIO Port	Quantity	Function
3	IN	1	Input x1, 3.5mm audio port
	OUT	1	Output x1, 3.5mm audio port
Control interface			
No.	Port	Quantity	Function
4	Square USB (Type B)	1	Connect to the PC, debug the parameters of the sending card and receiving card, and program

			upgrades through HDSet software.
5	WIFI	1	WIFI Wireless control
N0.	Power		
6	Power interface	1	110-240VAC, 50/60Hz

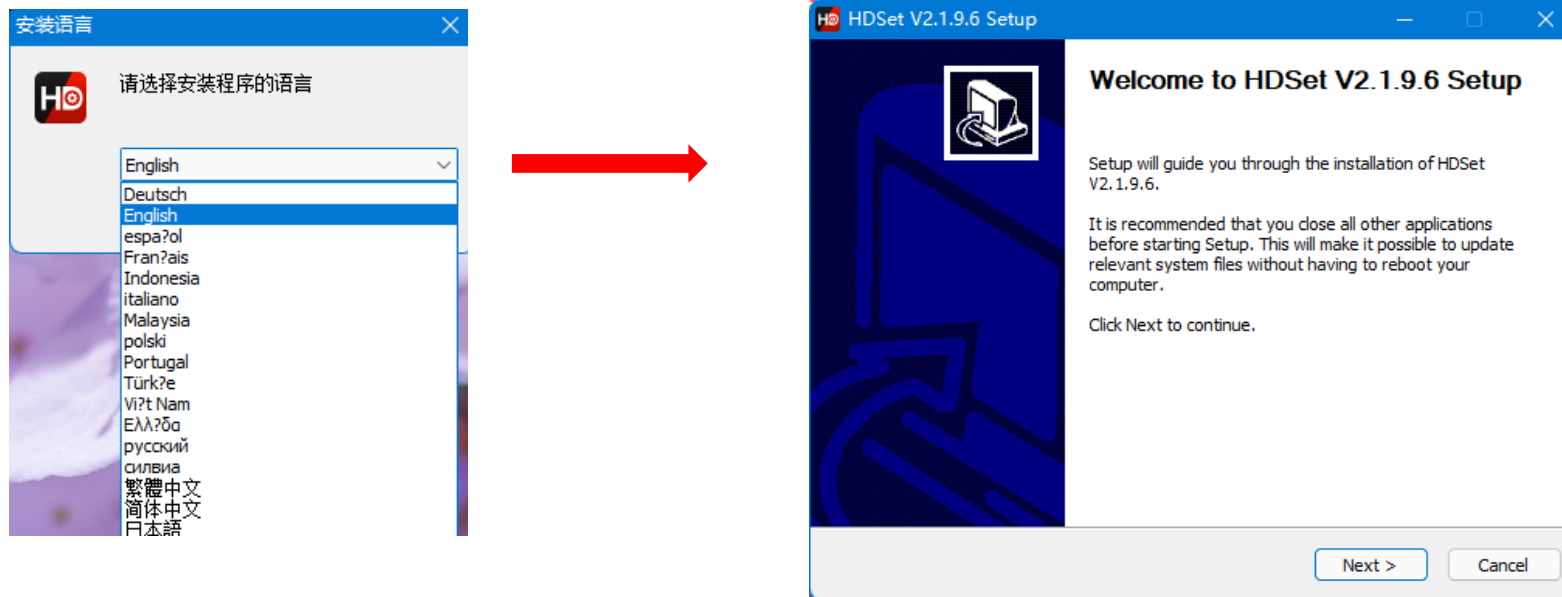
1.3 Hardware connection



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:

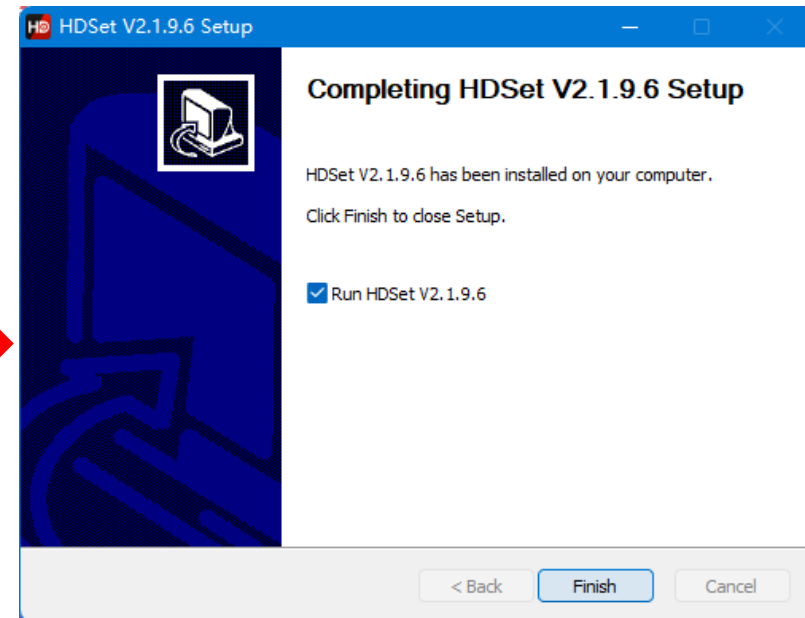
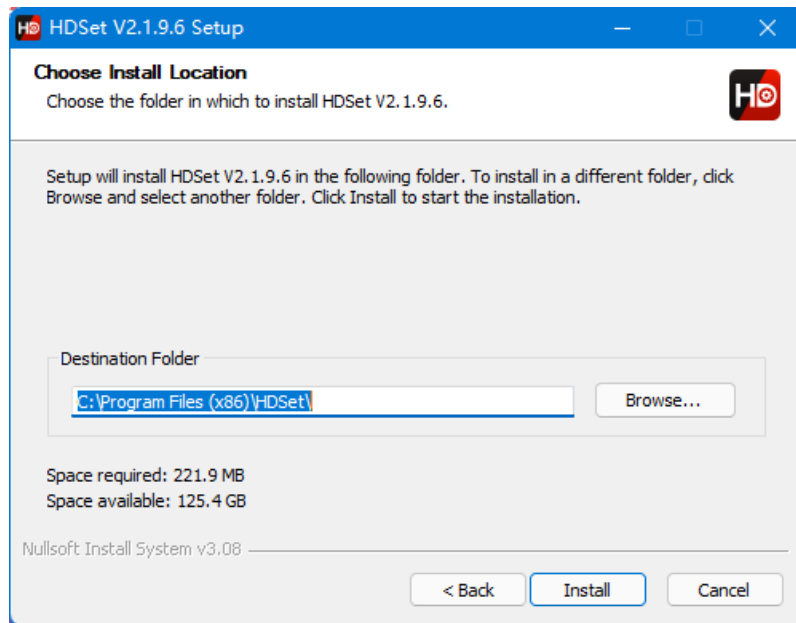
1.Run the software package,then select language for installer. Click [OK] to go on.



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-VP820 Parameter settings

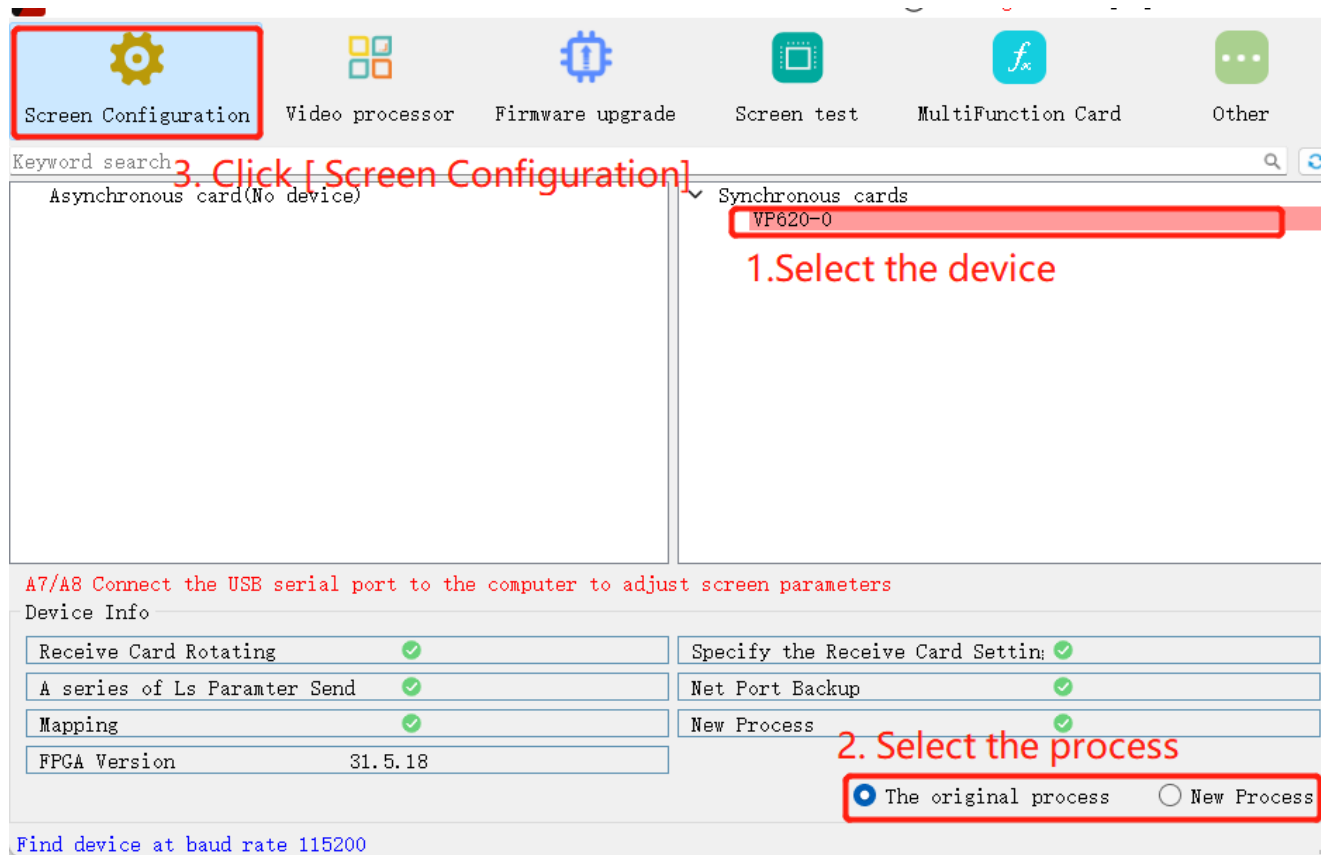
3.1 Connection

Connect the VP820 to the computer by USB-B type cable.

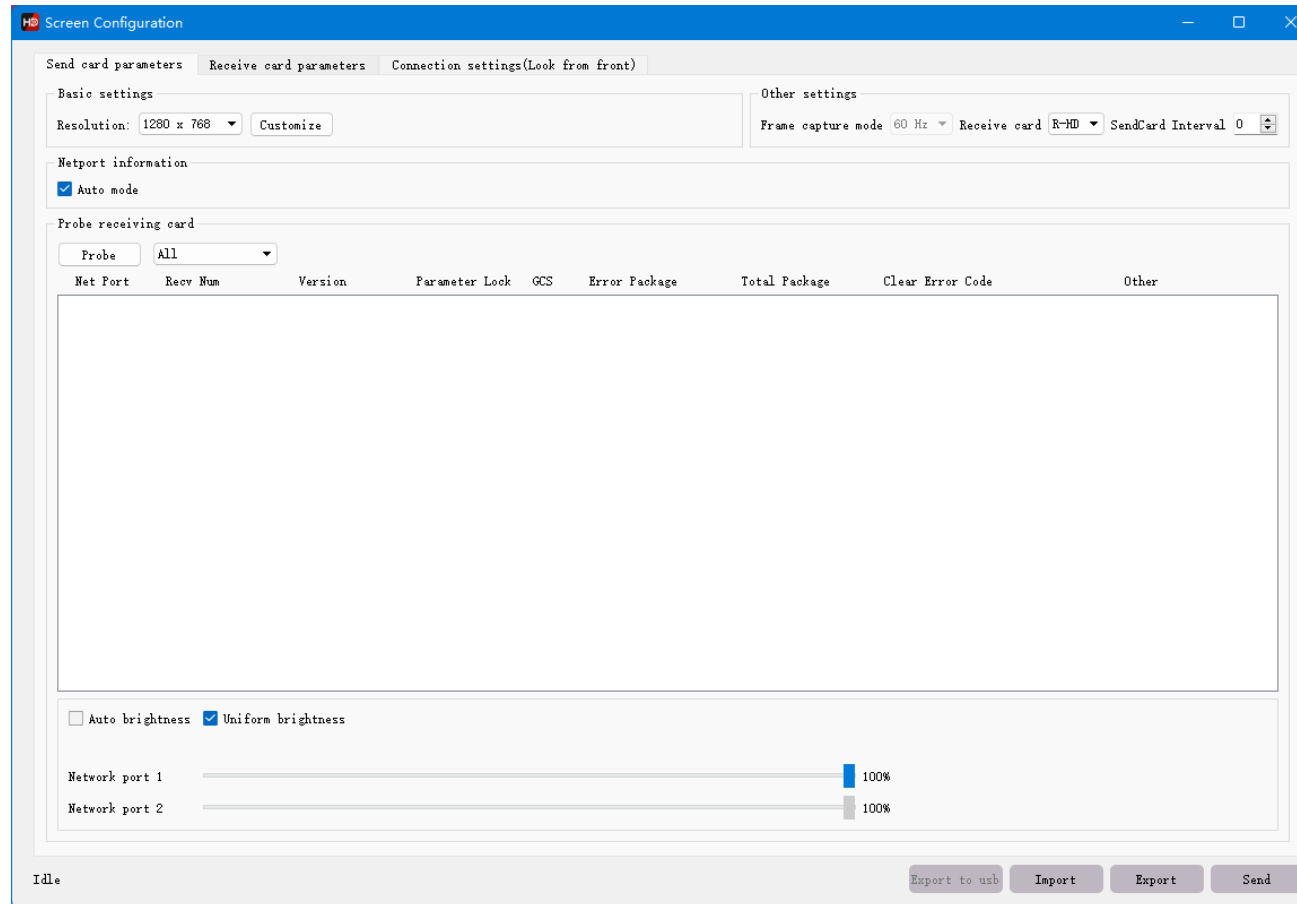


3.2 Screen Configuration

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



2. you can debug receiving cards.



Send card parameters

Receive card parameters

Connection settings(Look from front)

Basic parameters

Refresh rate:120

Refresh rate acceleration:2

Gradation:512

Brightness level:Normal brightness

DCLK Frequency:20.8MHz

Priority mode:Refresh rate priori

Phase:1

Gray mode:Low gray balance

Blanking Line:25

Line break time:0

Refresh optimization

HUB settings

HUB75-12 (24RGB)

HUB75-10 (20RGB)

HUB75-16 (32RGB)

HUB75-20 (extended)

R505 (28RGB)

Serial 128 group

Other

Load File

Smart settings

Advanced settings

Data group exchange

Color channel

Data set offset

Tips

Module type

Full Color

Scan

1 / 16

Decoding method

138

Data polarity

Low effective

OE polarity

Low effective

Highly effective

68.39%

Min OE

1328

Drive

Conventional chip

etails Of Modul

Case

Mode

Single separate

Width

128

<= 443

Height

128

<= 512

Read back

Network port 1

Card 1

Idle

Export to usb

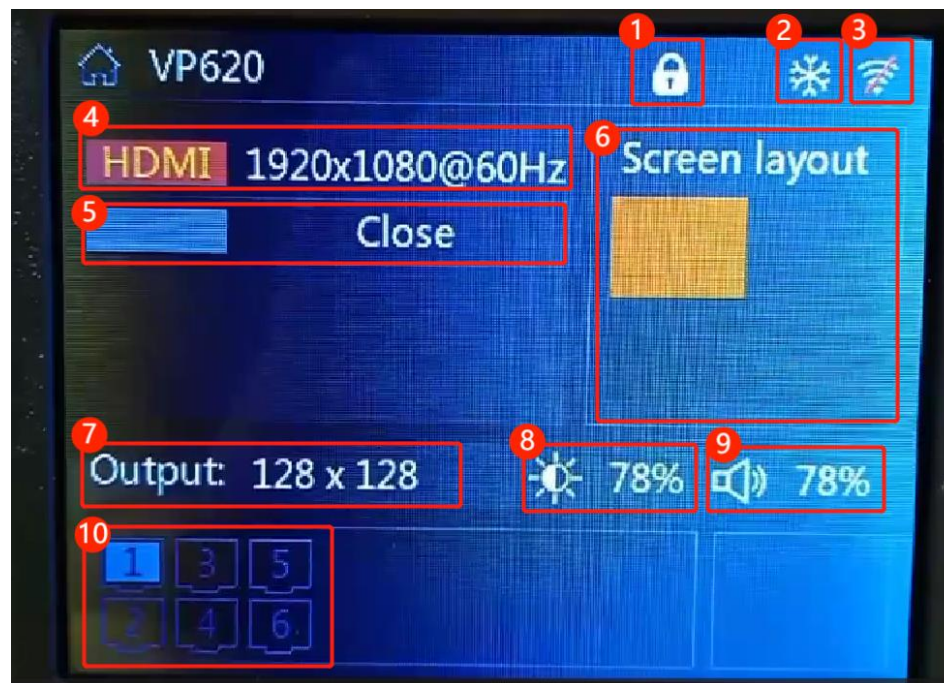
Import

Export

Send

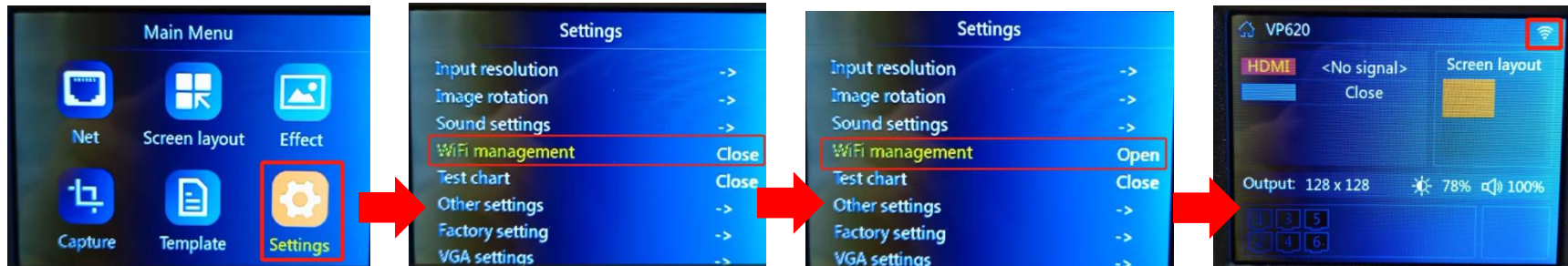
Chapter 4 HD-VP820 Product Operation

4.1 Interface Description

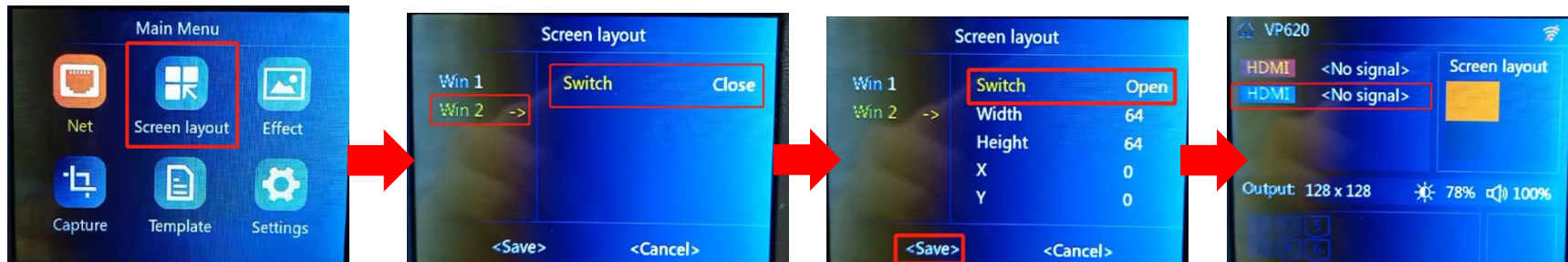


1. Button lock, Lock the button by pressing "LOCK".
2. Freeze, screen freeze by pressing "FREEZE".

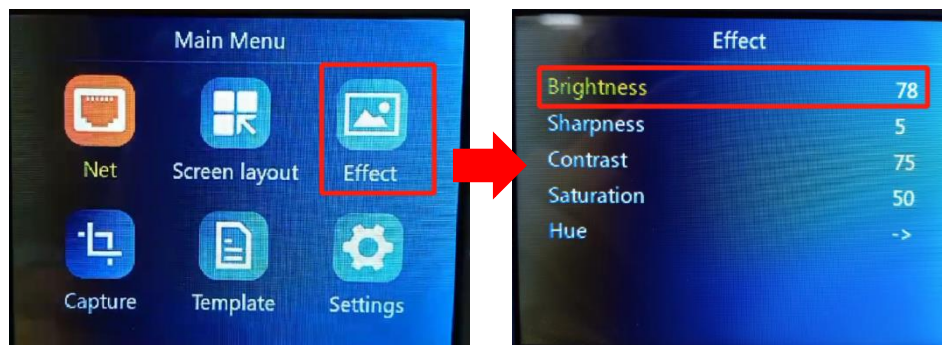
3. Wi-Fi, you can follow the steps below to turn on and off WiFi.



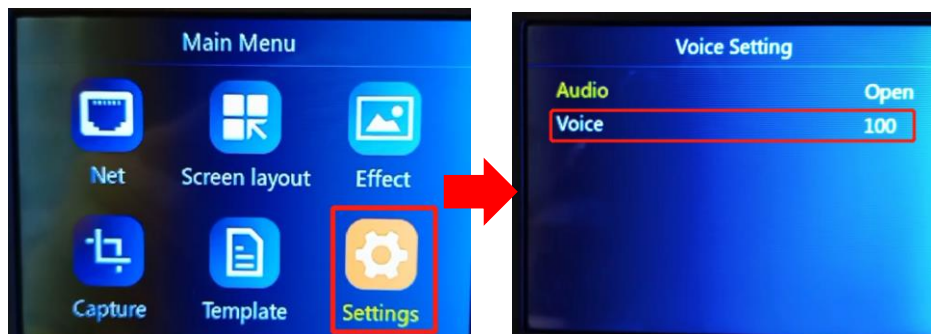
4. Input source for Win 1, input resolution and refresh rate.
5. Input source for Win 2, you can follow the steps to open Win2.



6. Screen layout, show the screen layout of the current window.
7. Output resolution, output to screen resolution.
8. Brightness, the screen brightness, you can adjust the brightness by the following steps.

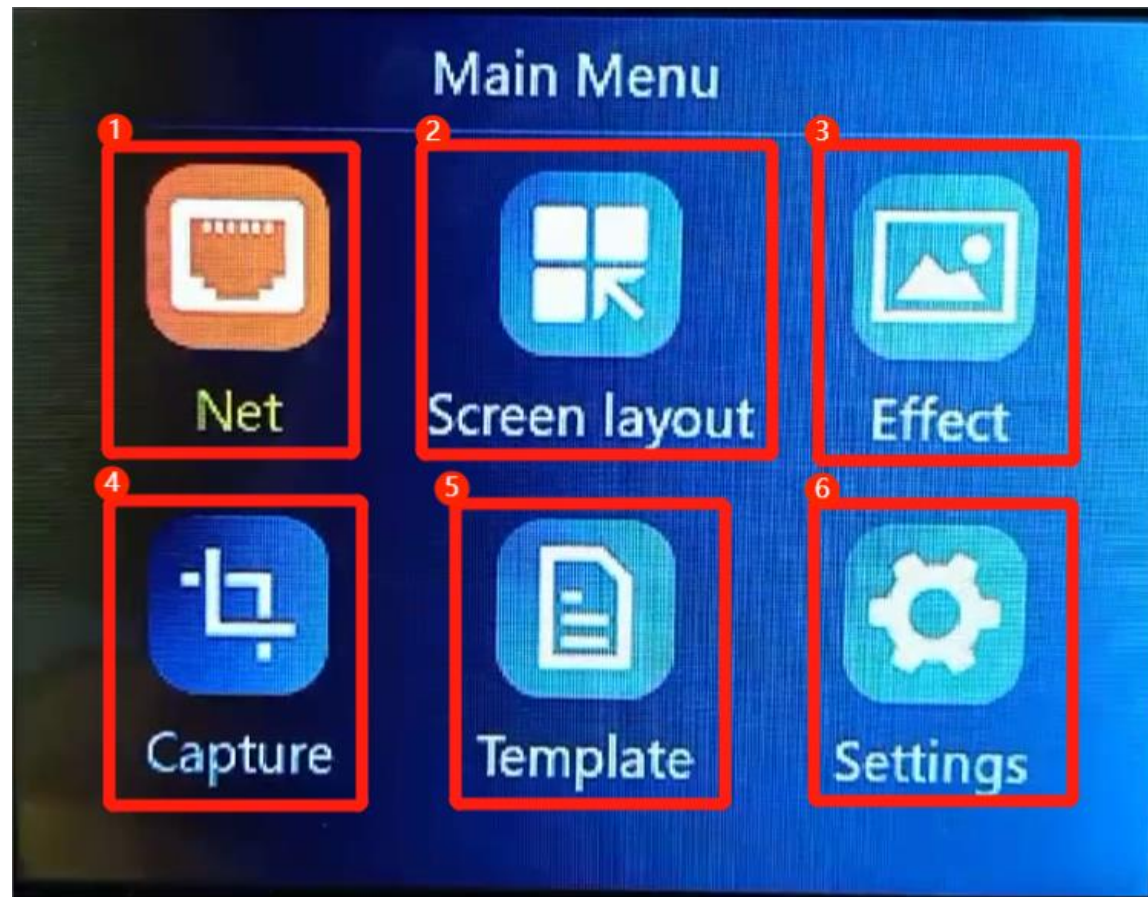


9. Sound, you can adjust the volume by the following steps.



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

4.2 Navigation interface



1. Output settings are used to set the load range and connection relationship of the sending card network port.

2. The screen layout is used to set the output screen, and supports up to 2 screens to display at the same time.
3. Effects are used to set image sharpness, saturation, color temperature, brightness and other settings.
4. Capture is used to capture the input source of the screen. You can set the screen and coordinates captured after the input source is entered.
5. Save mode to save current parameters forming the template file, to facilitate subsequent quick set.
6. Advanced settings are used to set input source resolution, restore factory settings, display firmware version, and adjust VGA.

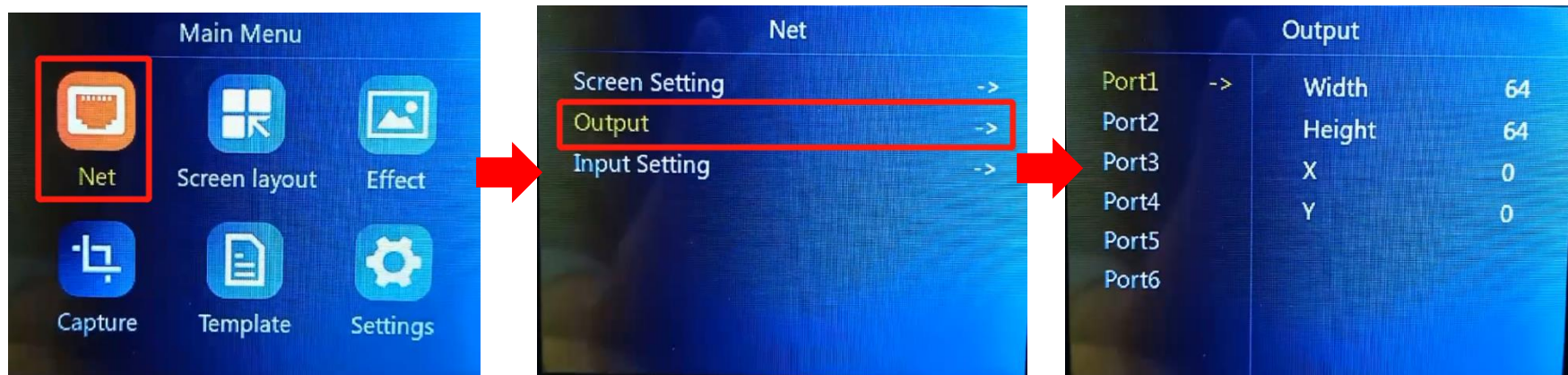
4.3 Input source switching



The HD-VP820 supports simultaneous access to five 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.

4.4 Net

4.4.1 Output



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

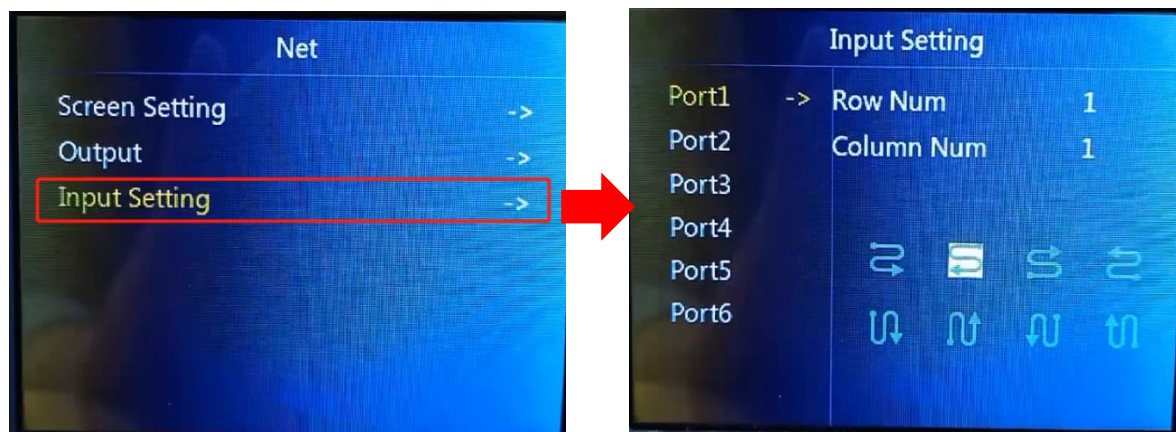
Horizontal width: 64—the width of the LED screen;

Vertical height: 64—the height of the LED screen;

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

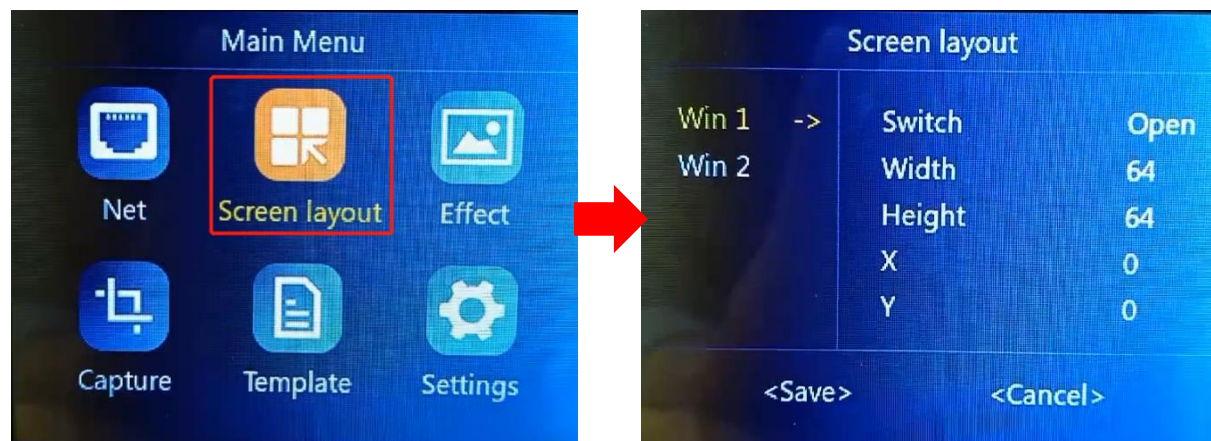
Y: Vertical start: setting parameter range = LED screen height-vertical height;

4.4.2 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.

4.5 Screen layout

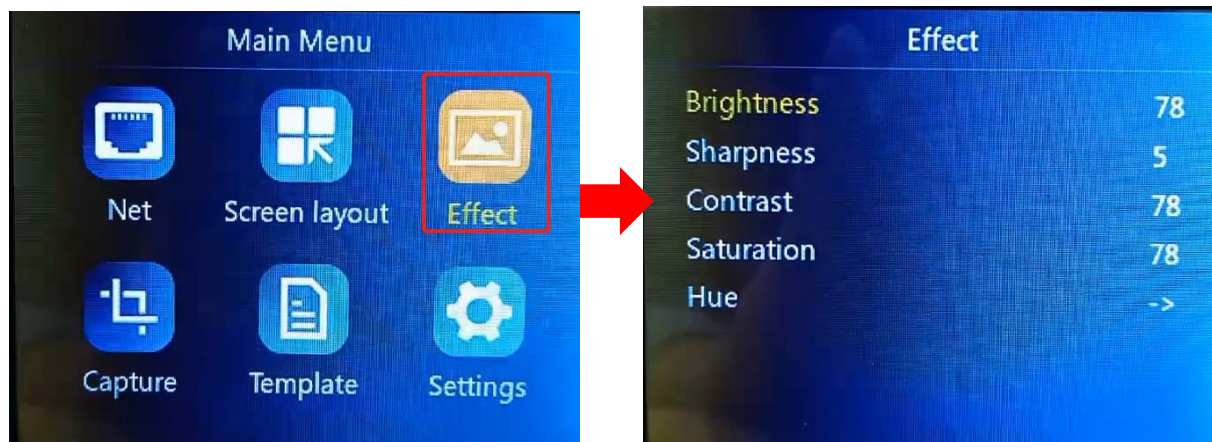


The screen switch setting of screen 1 cannot be set to off.

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.

4.6 Effect



Brightness: 0-100 default 50

Sharpness: 0-10, default 5

Contrast: 0-100, default 100

Saturation: 0-100, default 50

Color temperature: warmer, natural, colder, customize. Default: Warmer

4.7 Capture



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

Intercept width: 10808—Maximum width of input source

Intercept height:640—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.

4.8 Template setting

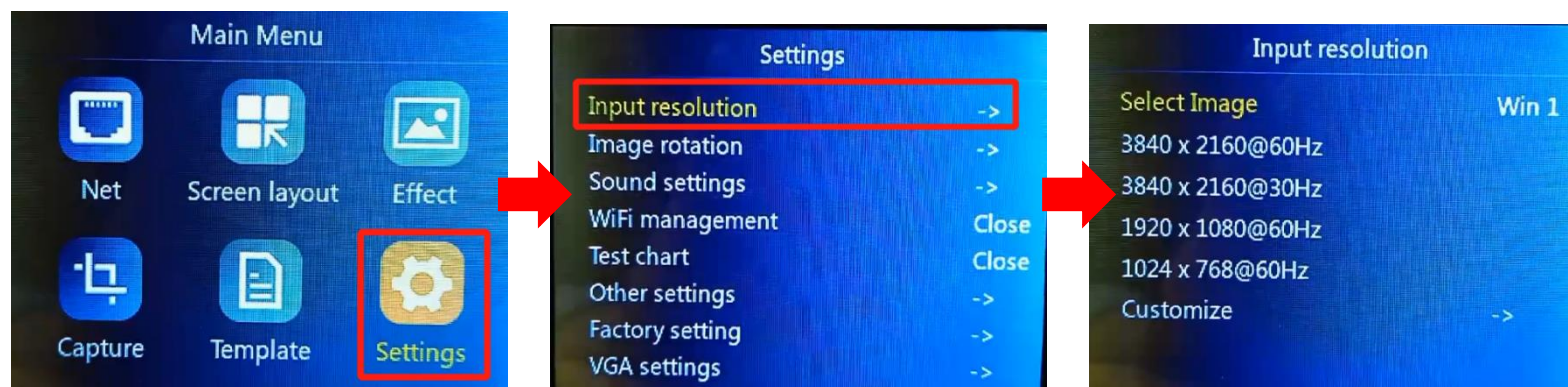


You can save up to 8 templates. '★' mean this template is already occupied.

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

4.9 Settings

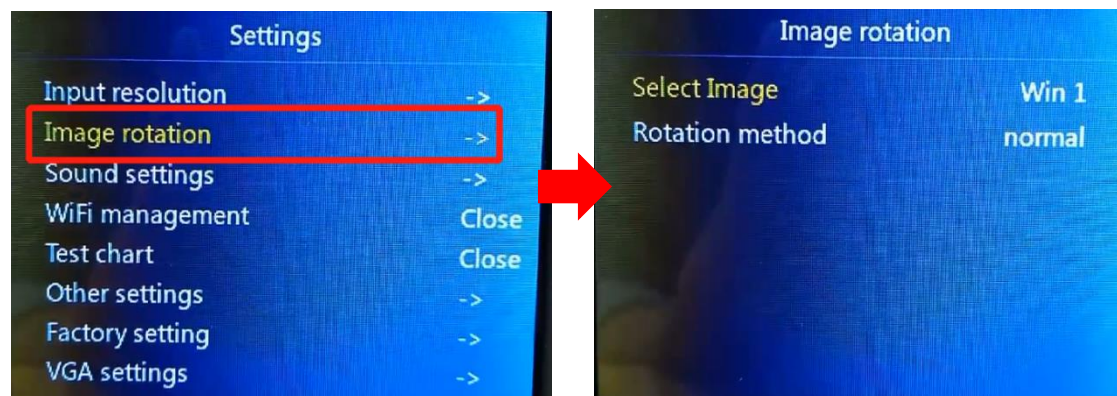
4.9.1 Input resolution



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

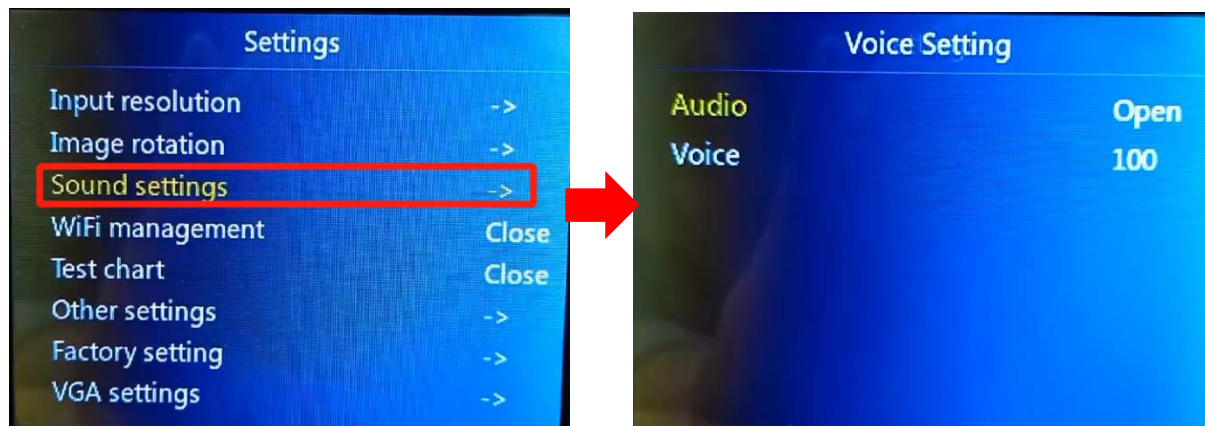
The default is 60Hz.

4.9.2 Image rotation



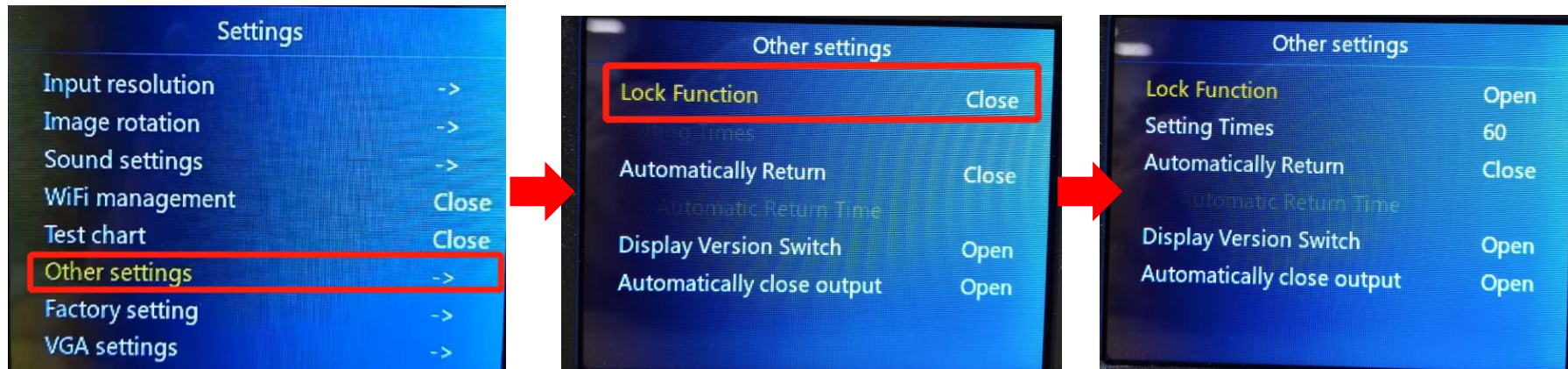
Select the window that needs to be rotated, support normal, Horizontal mirror, Vertical mirror, HV mirror.

4.9.3 Sound settings



Support turning on and off the sound, and volume adjustment

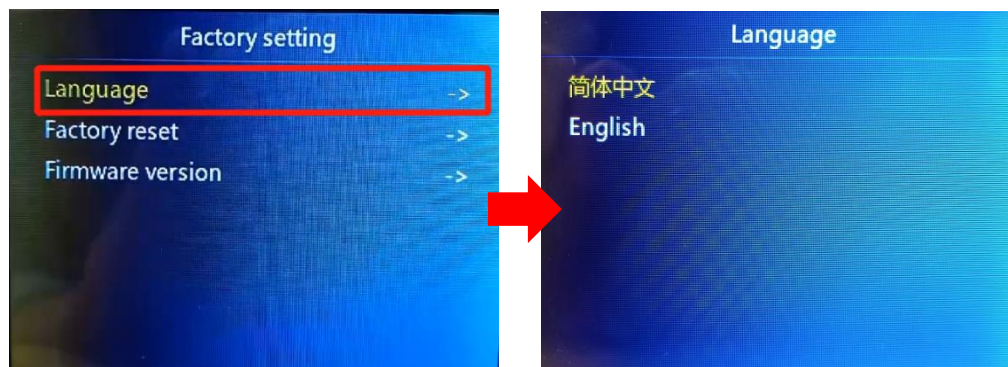
4.9.4 Other settings



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.

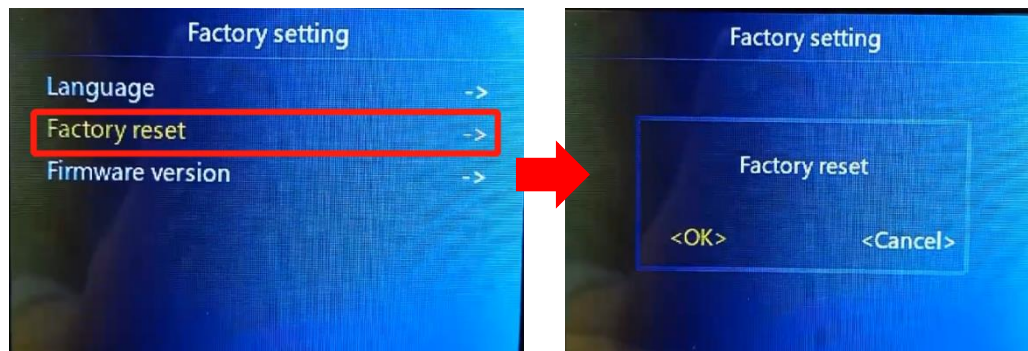
4.9.5 Factory setting

1. Language



Language selection: support English, Chinese.

2. Factory reset



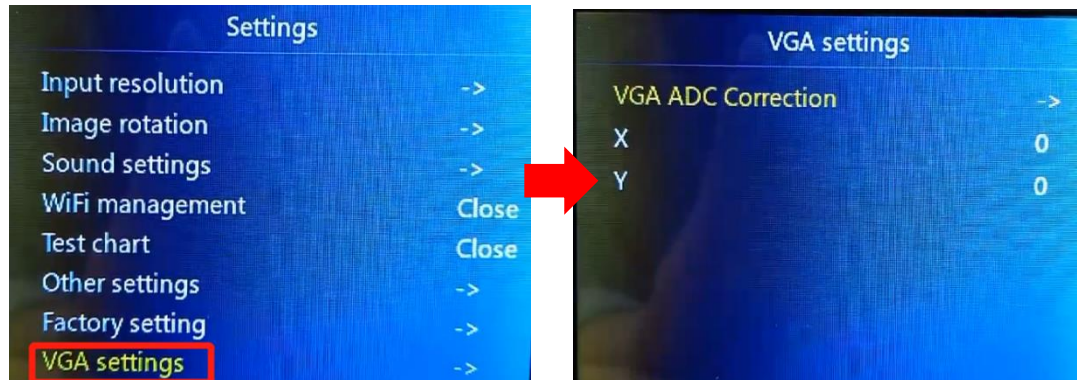
Restore the device to factory settings.

3. Firmware version



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

4.9.6 VGA



When using the VGA interface, adjust the coordinates displayed on the screen.