灰度科技
HUIDU TECHNOLOGY

User Manual

HD-VP2060

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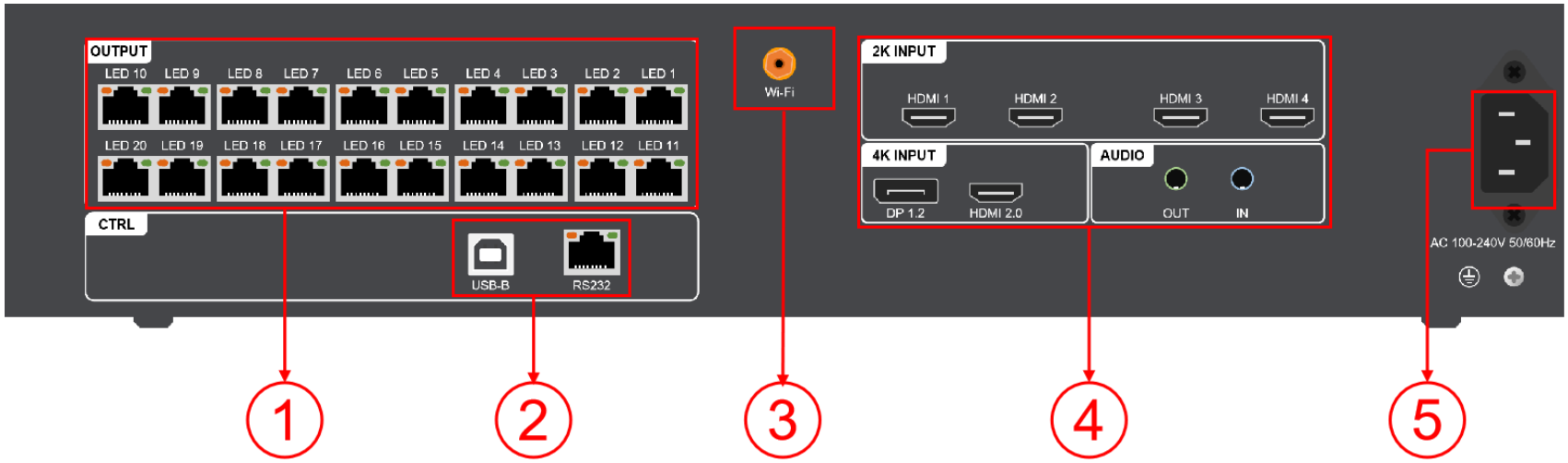
Chapter 1 Interface connection

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~WIN6: Select the opened screen window MODE: Quickly call out the preset mode call menu ESC: exit/return key 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

1.2 Rear Panel



Input interface			
No.	**Interface name**	**quantity**	**illustrate**
4	DP1.2	1	DP input interface **Interface form**：DP **Signal standard**：DP1.2 backward compatible **Resolution**: VESA standard，≤4096x2160@60Hz；≥1920*1080@60Hz **EDID** management：Support preset resolution, support custom input resolution **support audio input**
	HDMI2.0	1	HDMI2.0 input interface

			Interface form：HDMI-A **Signal standard**：HDMI 2.0 backward compatible **Resolution**: VESA standard，≤4096x2160@60Hz；≥1920*1080@60Hz **EDID** management：Support preset resolution, support custom input resolution **support audio input**
	HDMI 1-4	4	**HDMI1.4** input interface × 4（HDMI1~4） **Interface form**：HDMI-A **Signal standard**：HDMI 1.4 backward compatible **Resolution**：VESA standard，≤1920x1200@60Hz；

			≥800x600@60Hz **EDID** management： Support preset resolution, support custom input resolution **support audio input**
	AUDIO IN	1	TRS 3.5mm two-channel audio input interface
5	Power	1	AC100~240V，50/60Hz

Output interface			
No.	**Interface name**	**quantity**	**illustrate**

1	Gigabit Ethernet port	20	Used for cascading receiving cards to transmit RGB data stream;Each network port controls 650,000 pixels. Supports docking multi-function card
5	AUDIO OUT	1	TRS 3.5mm two-channel audio output interface Connect to an audio amplifier for high-power external speakers

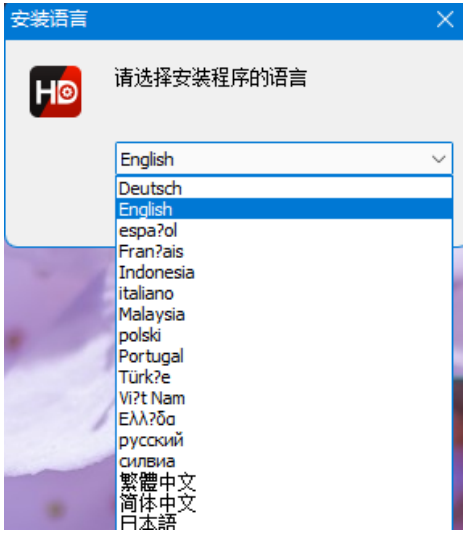
Control interface			
No.	Name	quantity	Description
4	USB-B	1	Connect to the PC, used for debug LED controller
	RS232	1	RJ45 interface, connected to the central control device
5	Wi-Fi	1	Connect a Wi-Fi antenna to enhance Wi-Fi signal

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:

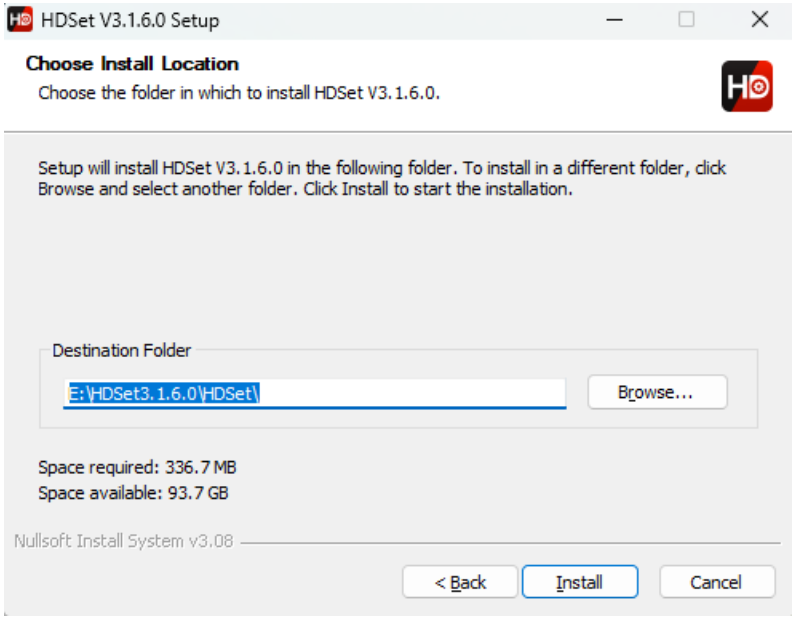
1.Run the software package,then select language for installer. Click [OK] to go on.

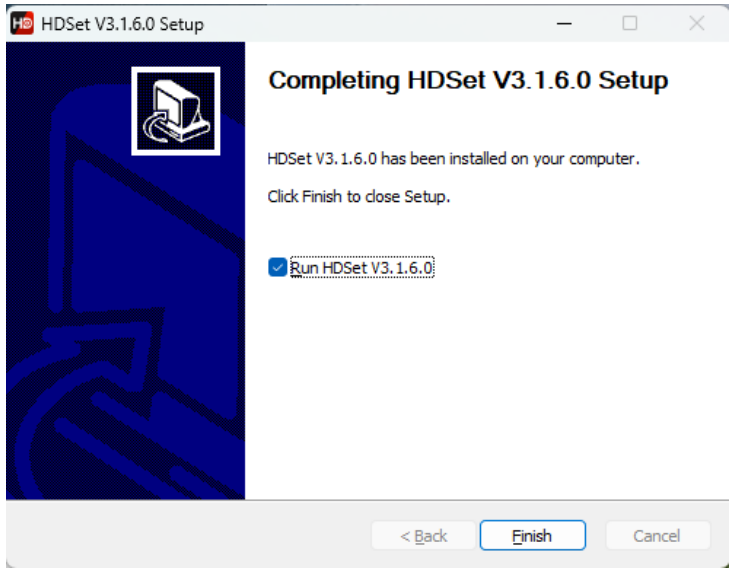


2.After selecting a language, an installation wizard like below will appear.Click [Next].

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.





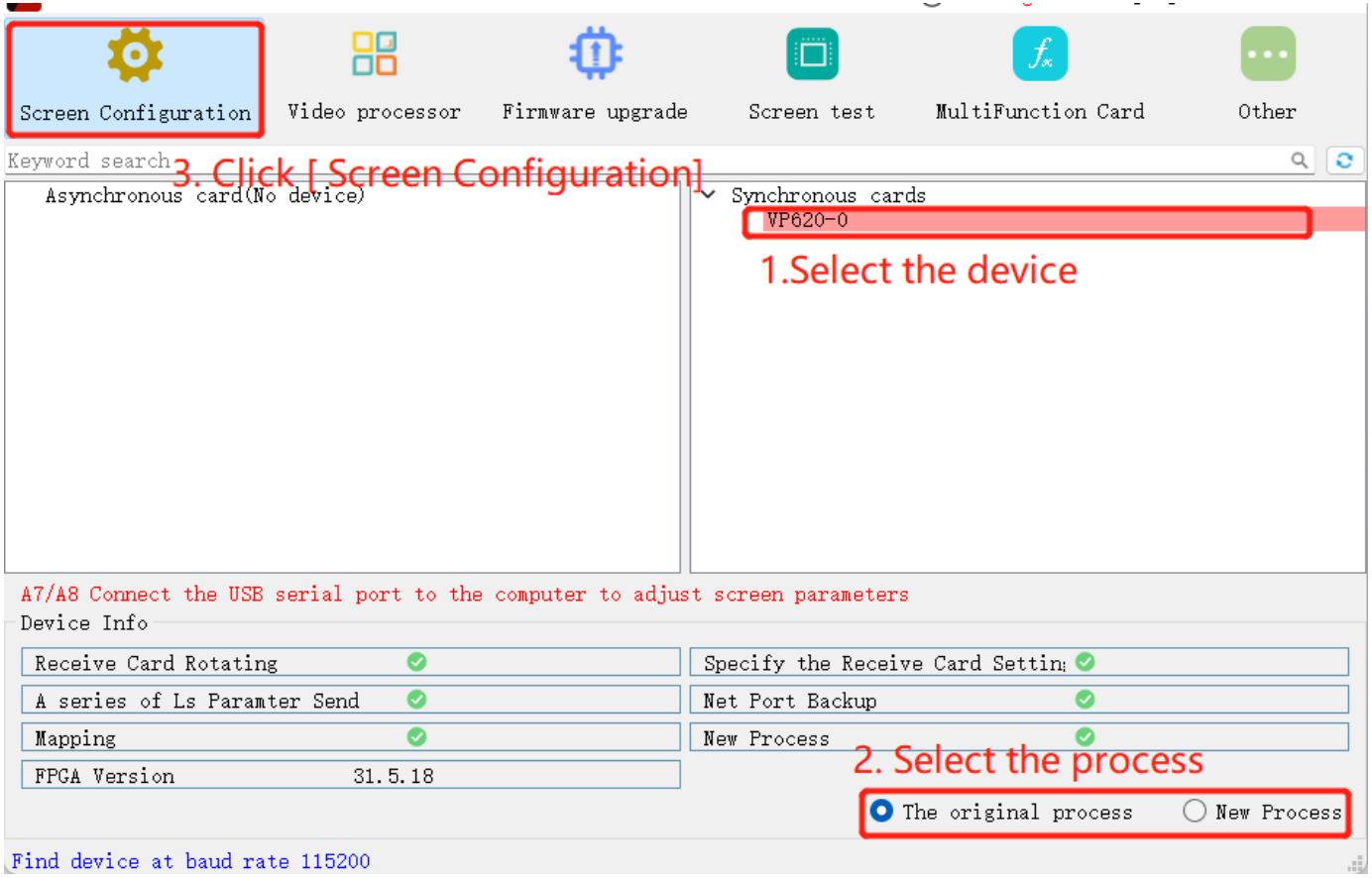
Chapter 3 HD-VP2060 Parameter settings

3.1 Connection

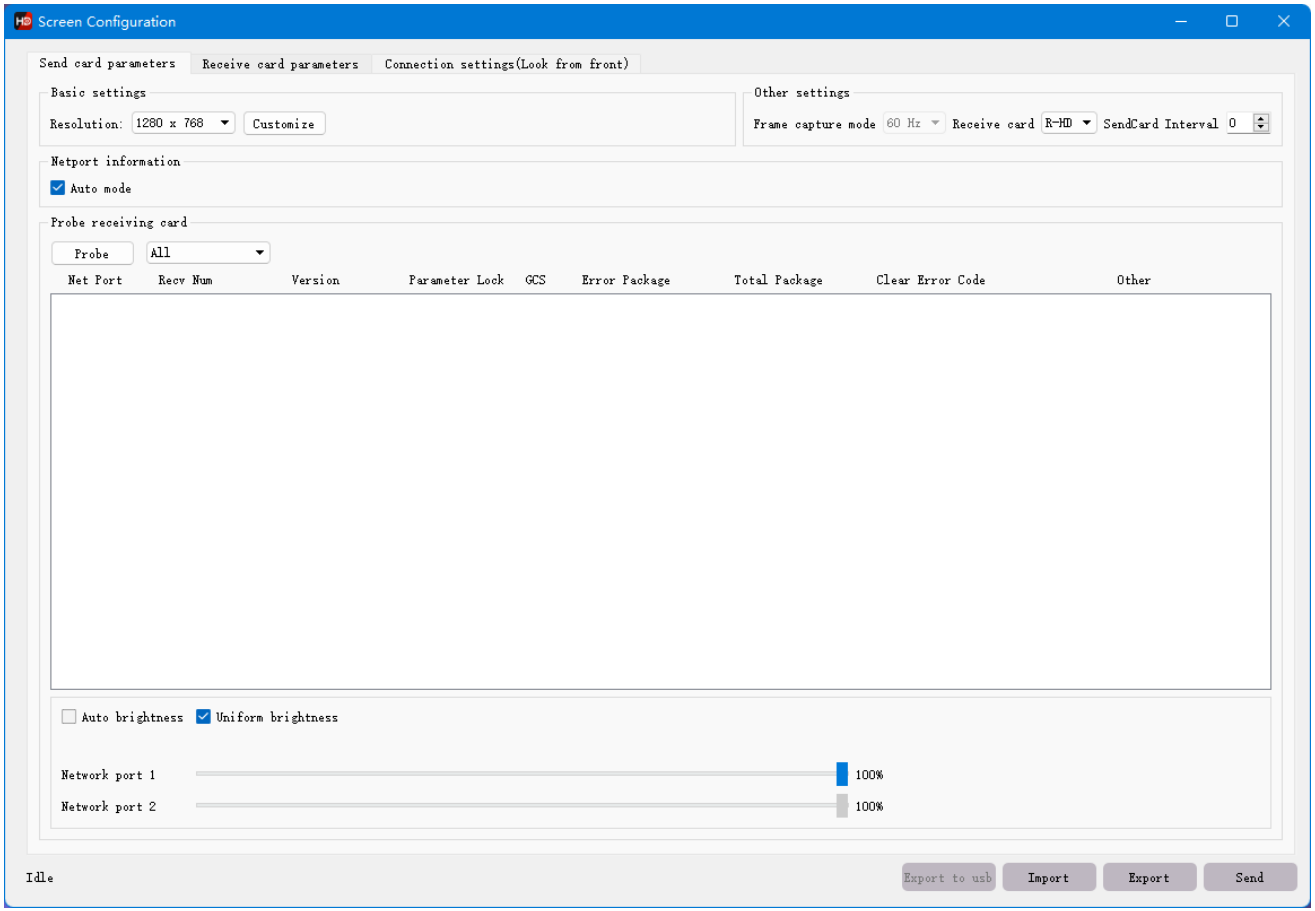
Connect the VP2060 to the computer by USB-B type cable.

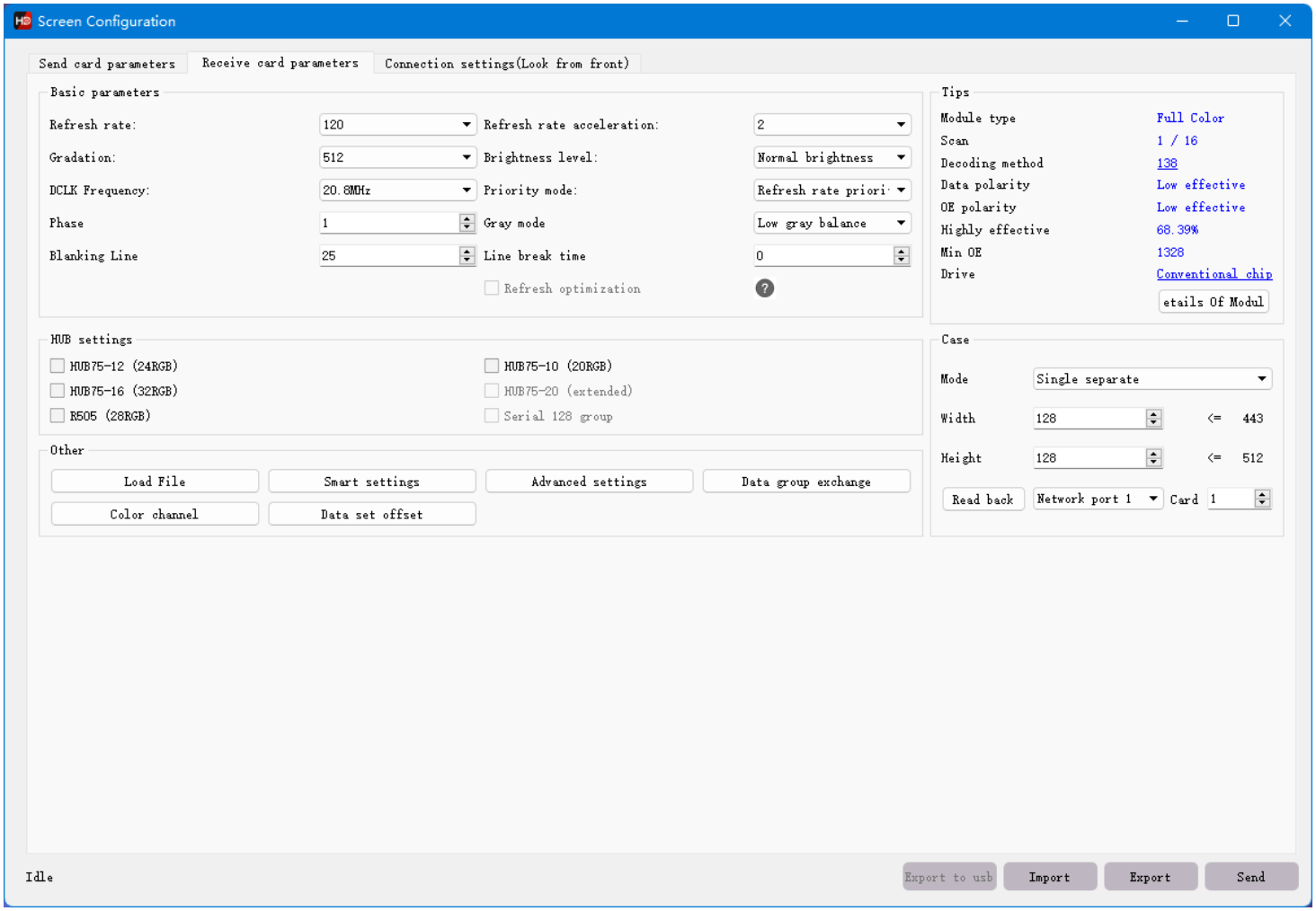
3.2 Screen Configuration

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



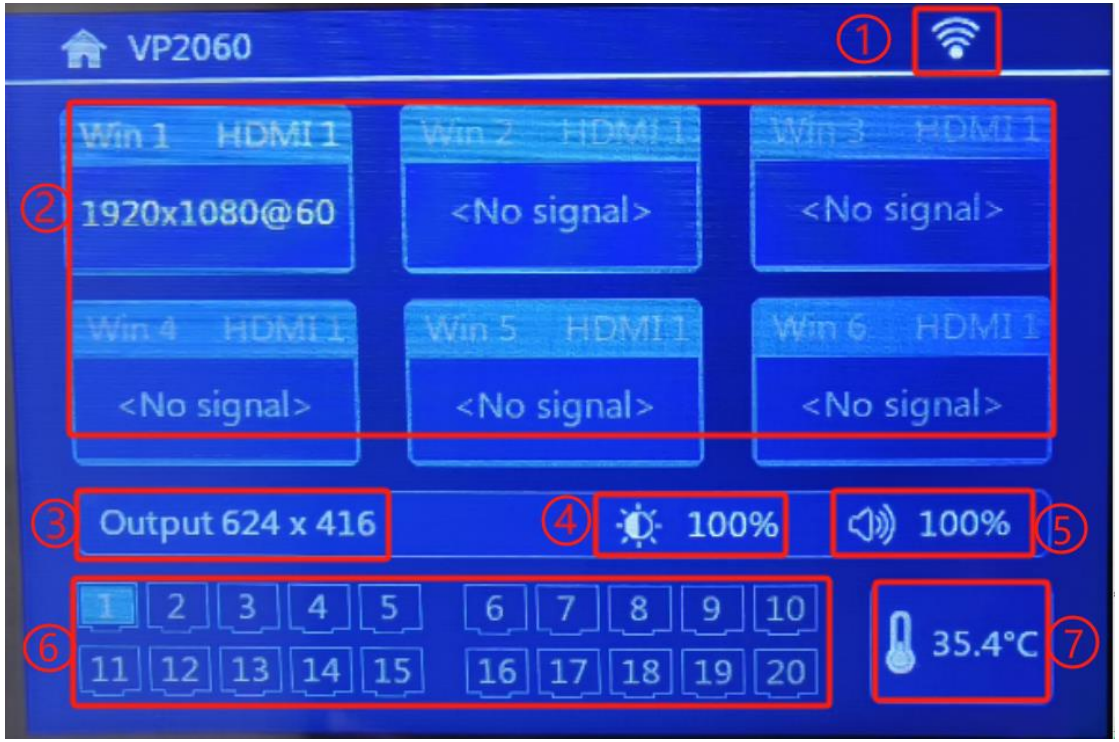
2. you can debug receiving cards.


Screen Configuration
Send card parameters
Receive card parameters
Connection settings(Look from front)
Basic settings
Resolution:
1280 x 768
Customize
Other settings
Frame capture mode
60 Hz
Receive card
R-MD
SendCard Interval
0
Netport information
Auto mode
Probe receiving card
Probe
All
Net Port
Recv Num
Version
Parameter Lock
GCS
Error Package
Total Package
Clear Error Code
Other
Auto brightness
Uniform brightness
Network port 1
100%
Network port 2
100%
Idle
Export to usb
Import
Export
Send


Screen Configuration
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
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
HUB settings
HUB75-12 (24RGB)
HUB75-10 (20RGB)
HUB75-16 (32RGB)
HUB75-20 (extended)
R505 (28RGB)
Serial 128 group
Case
Mode
Single separate
Width
128
<=
443
Height
128
<=
512
Other
Load File
Smart settings
Advanced settings
Data group exchange
Color channel
Data set offset
Read back
Network port 1
Card
1
Idle
Export to usb
Import
Export
Send

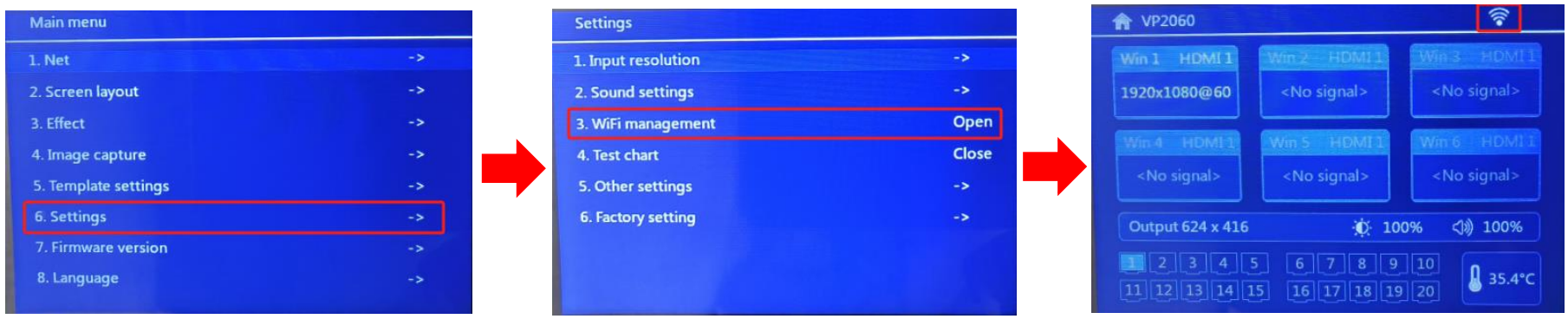
Chapter 4 HD-VP2060 Product Operation

4.1 Interface Description



1. Black screen,turn off screen by pressing ‘BLACK’

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

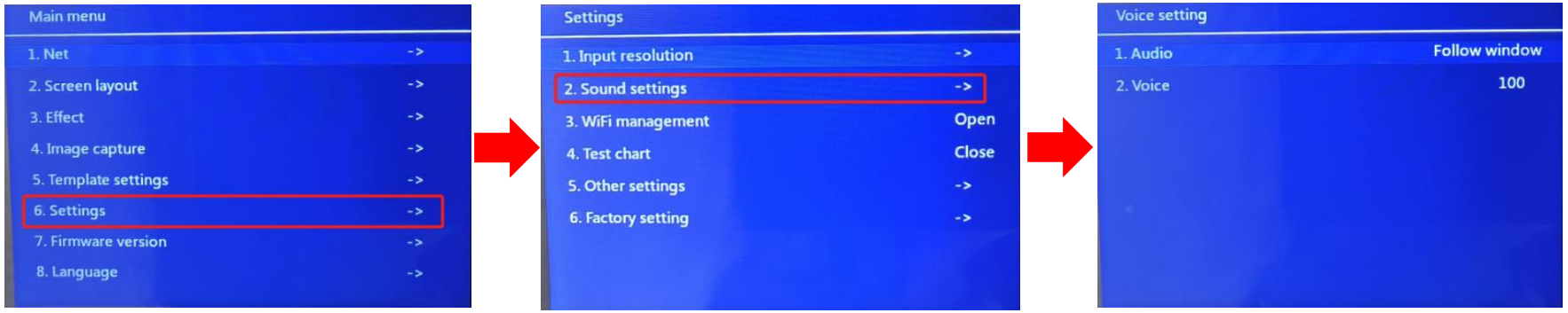


3. Input source for Win 1-6，input resolution and refresh rate.

4. Output resolution, the resolution output to screen.

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

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



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

8. Temperature,display the temperature of the device now.

4.2 Input source switching

The HD-VP2060 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.

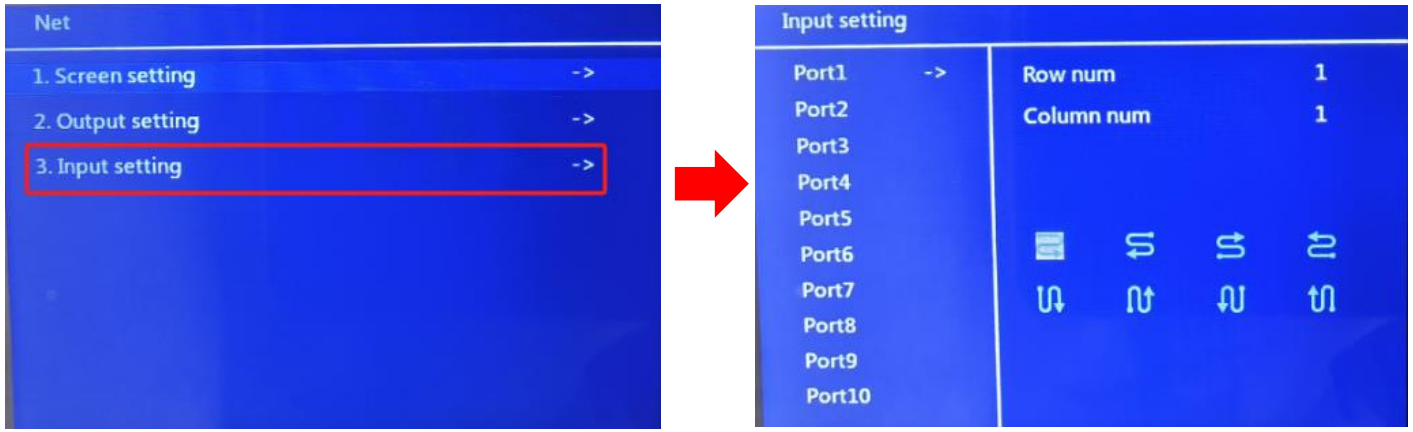
Horizontal width—the width of the LED screen;

Vertical height—the height of the LED screen;

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

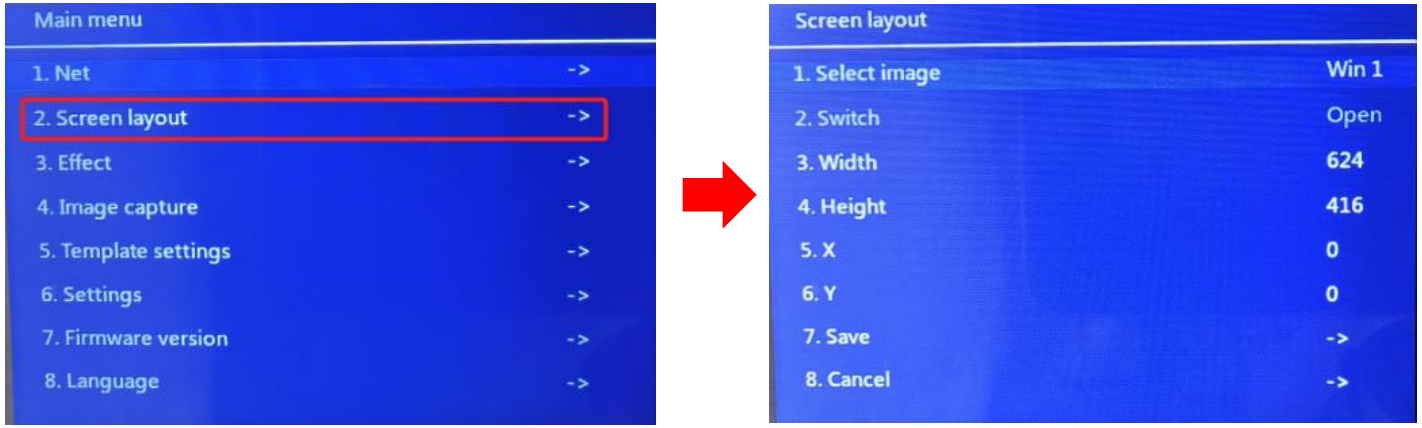
Y: Vertical start: setting parameter range = LED screen height-vertical height;

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 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.

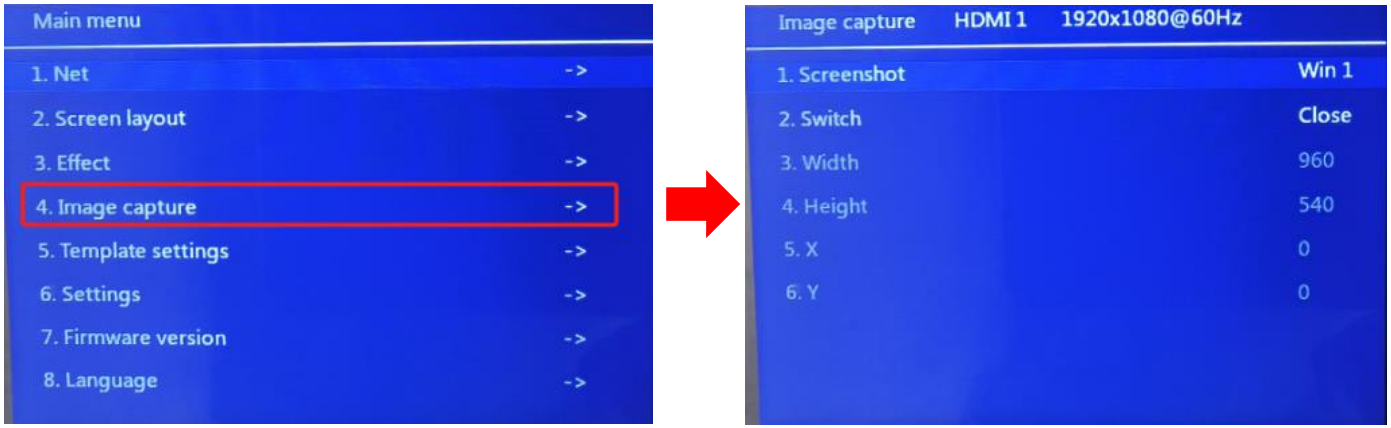
4.5 Effect

Brightness: 0-100 default 50

Black screen:default opening

Freeze:default closing

4.6 Image Capture



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

Intercept width: 1920—Maximum width of input source

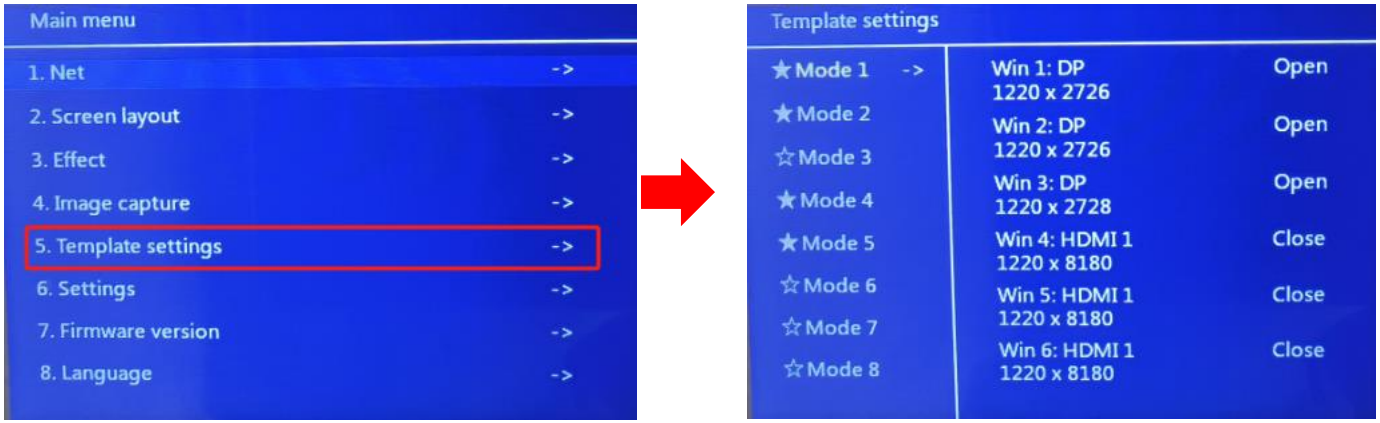
Intercept height:1080—Maximum height of input source

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

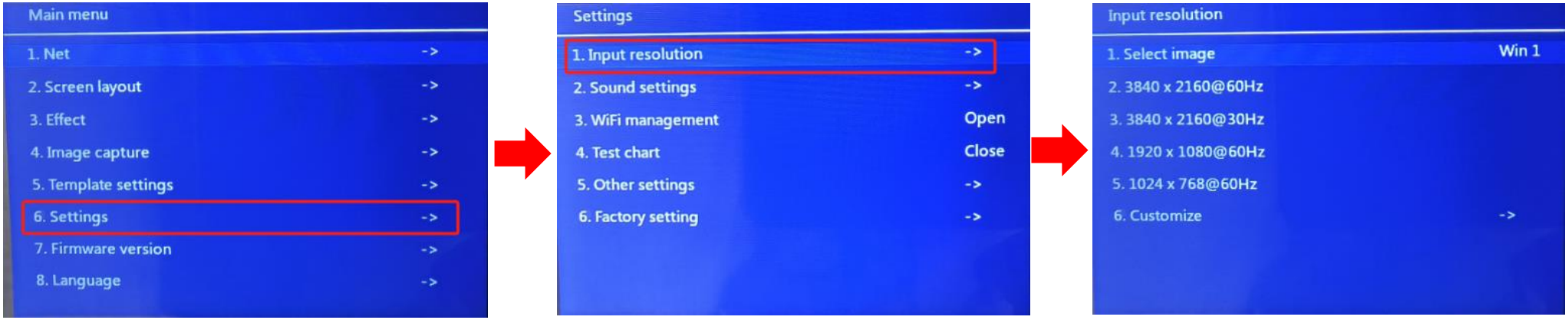


You can save up to 8 templates. '★' mean this teamplate is already occupied.

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

4.8 Settings

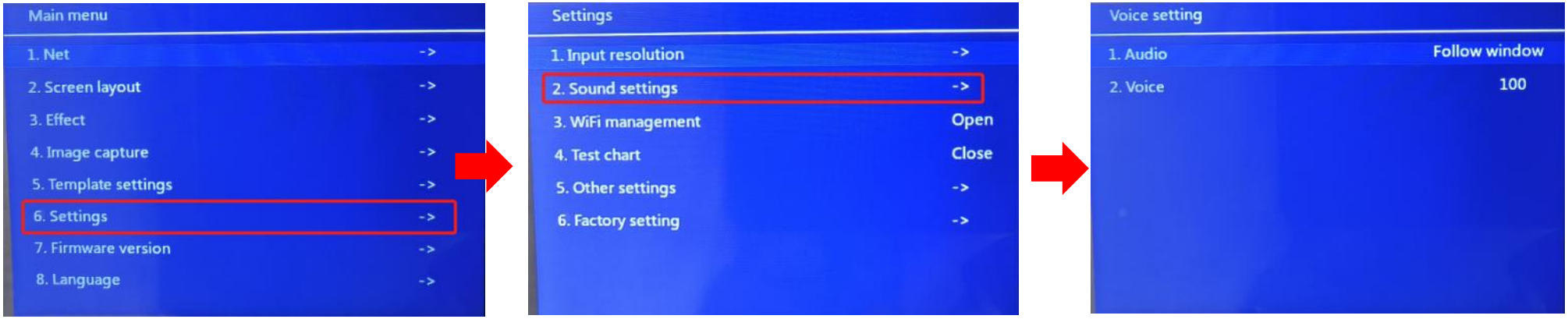
4.8.1 Input resolution



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

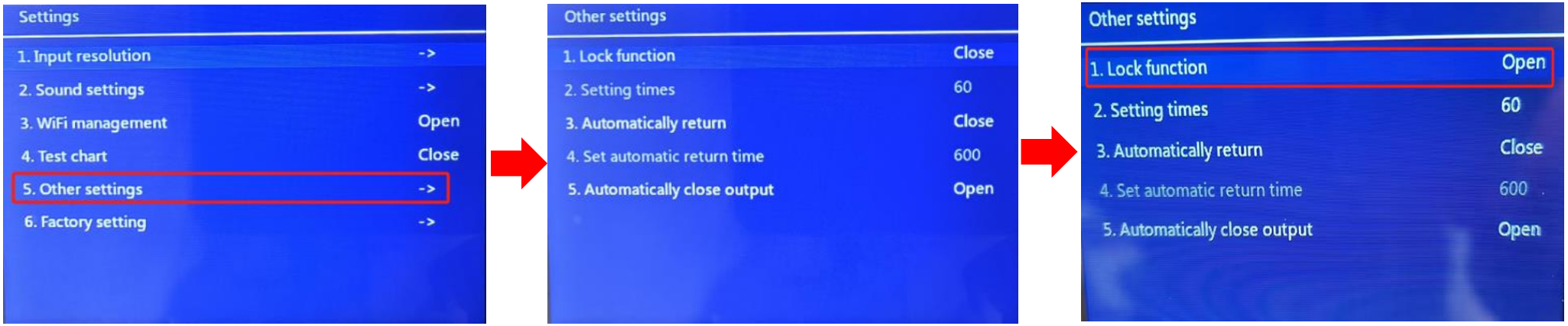
The default is 60Hz.

4.8.2 Sound settings



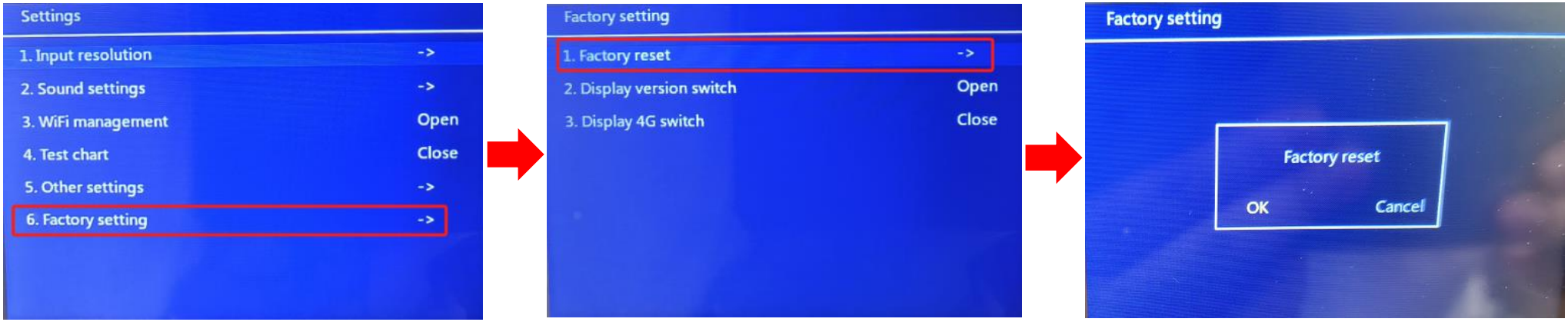
Support turning on and off the sound, and volume adjustment

4.8.3 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.

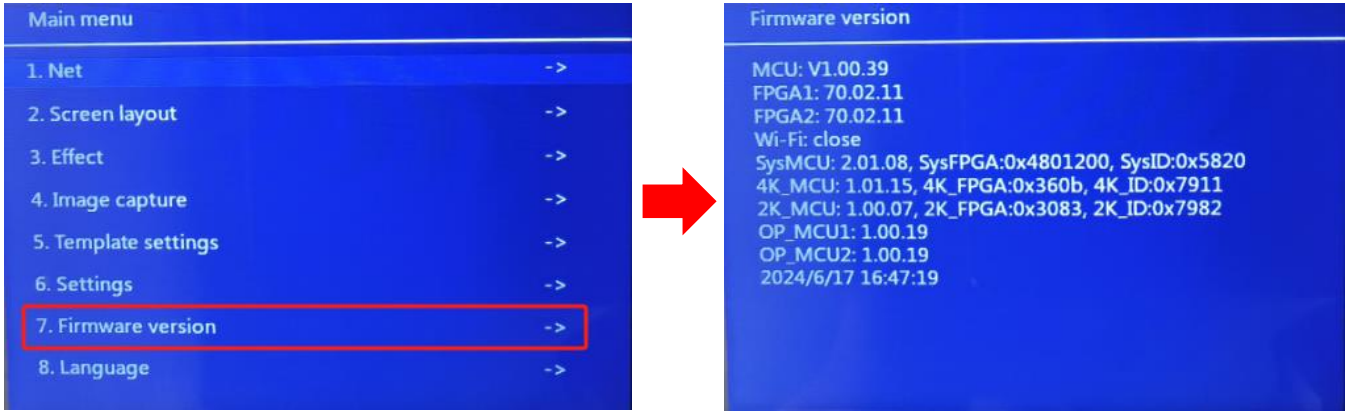
4.8.4 Factory setting



Restore the device to factory settings.

4.8.5 Firmware version

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



4.8.6 Language