

User Manual



HD-VP630

Content

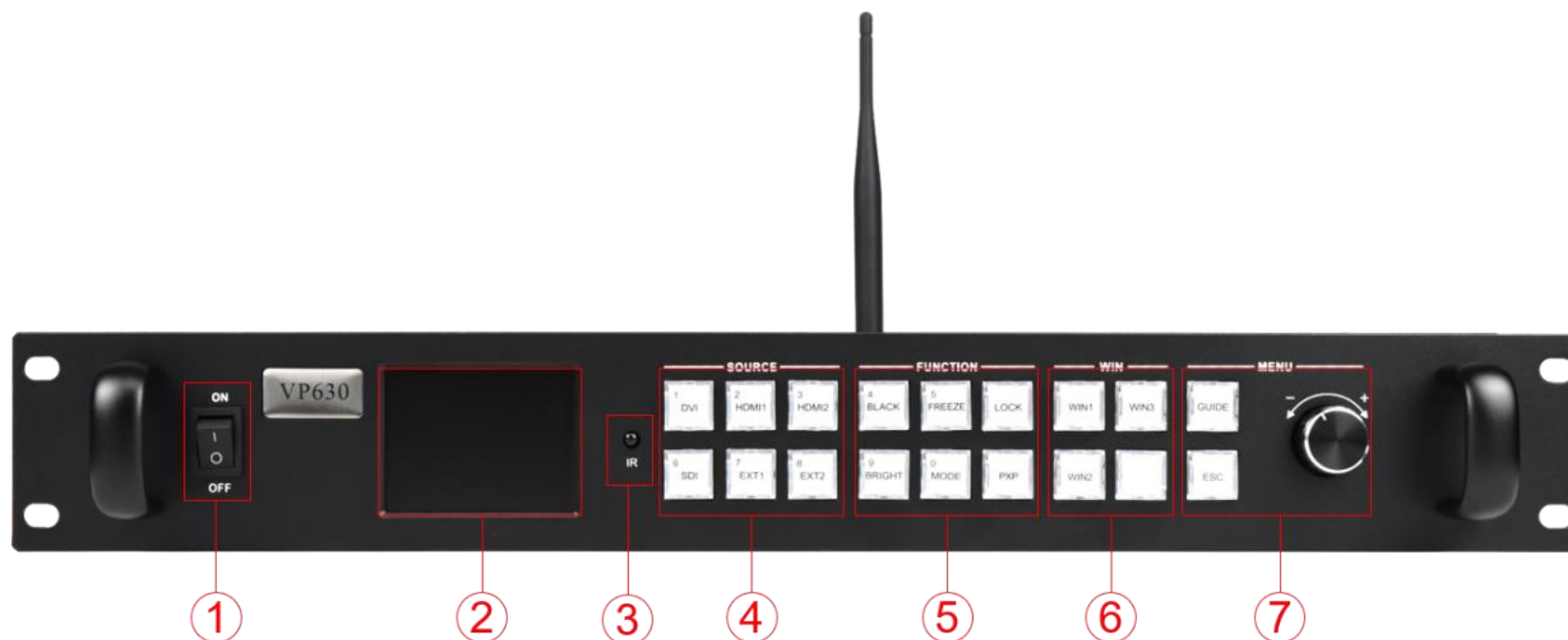
Chapter 1 Interface connection	1
1.1 Front panel	1
1.2 Rear Panel	4
1.3 Hardware connection	7
Chapter 2 HDSet installation	9
Chapter 3 HD-VP630 Parameter settings.....	11
3.1 Connection	11
3.2 Screen Configuration	11
Chapter 4 HD-VP630 Product Operation	15
4.1 Interface Description	15
4.2 Input source switching	16

4.3 Net.....	16
4.3.1 Output.....	16
4.3.2 Input setting	17
4.4 Screen layout.....	18
4.5 Effect	18
4.6 Capture.....	19
4.7 Template setting	21
4.8 Settings.....	21
4.8.1 Input resolution.....	21
4.8.2 Other setting	22
4.8.3 Test chart.....	23
4.8.4 Key lock	24
4.8.5 Factory setting.....	25

1. Language	25
2. Factory reset.....	26
3. Firmware version.....	26

Chapter 1 Interface connection

1.1 Front panel



Key Description

No.	Key	Description
-----	-----	-------------

1	Switch	AC power input switch
2	LCD screen	Display menu, screen parameters and other information, used for debug device
3	IR receiver	Switch signal source, brightness setting, volume adjustment and other functions
4	SOURCE	Input Source Select keypad, 4 input source port selection buttons, corresponding to the input interface identification on the back panel.
5	FUNCTION	Function keys, the key multiplexing function is digital selection, generally used when setting the resolution. BLACK: when you press BLACK and its indicator will be on, the output screen will be in a black state. BRIGHT: Quickly swap out the shortcut keys of the brightness

		adjustment menu. MODE: Quickly pop up the preset mode call menu. PXP: Quickly enter the dual picture layout menu FREEZE: Shortcut key for screen freeze. LOCK: Quickly lock the keys to prevent miss operation.
6	WIN	[WIN1]- [WIN3] Button: You can press it to add 1~2 window display, and its indicator means the currently selected window.
7	MENU	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: can quickly switch out the "smart navigation" setting interface.

		Return key ESC : means to exit the current operation or option.
--	--	---

1.2 Rear Panel



Input interface			
No.	Name	quantity	Description
2	HDMI	2	HDMI input interface Interface form: HDMI-A

			Signal standard: HDMI 1.3 backward compatible Resolution: VESA standard, $\leq 1920 \times 1080 @ 60\text{Hz}$ Support audio input
	DVI	1	Interface form: DVI-I socket Signal standard: DVI1.0 Resolution: VESA standard, PC to 1920×1200 , HD to 1080p
	SDI	1	Interface form: BNC Signal standard: SD-SDI, HD-SDI, 3G-SDI Resolution: VESA standard, $\leq 1920 \times 1080 @ 60\text{Hz}$
3	AUDIO IN	1	TRS 3.5mm audio input
6	Power	1	AC power interface 100-240V, 50/60Hz

Output interface			
No.	Name	quantity	Description
1	LAN output	6	Gigabit Ethernet port Transmission speed 1Gbps, used for cascading receiving cards, transmitting RGB data stream. One Gigabit Ethernet port support loading capacity 655,360 pixels.
3	AUDIO OUT	1	TRS 3.5mm dual channel audio output port Connect audio power amplifier for high-power audio external amplifier

Control interface

No.	Name	quantity	Description
4	USB-B	1	Connect to the PC, used for debug LED controller
	RS232		Connect central control equipment for centralized control
5	Wi-Fi	1	Connect to Wi-Fi antenna to enhance wireless signal

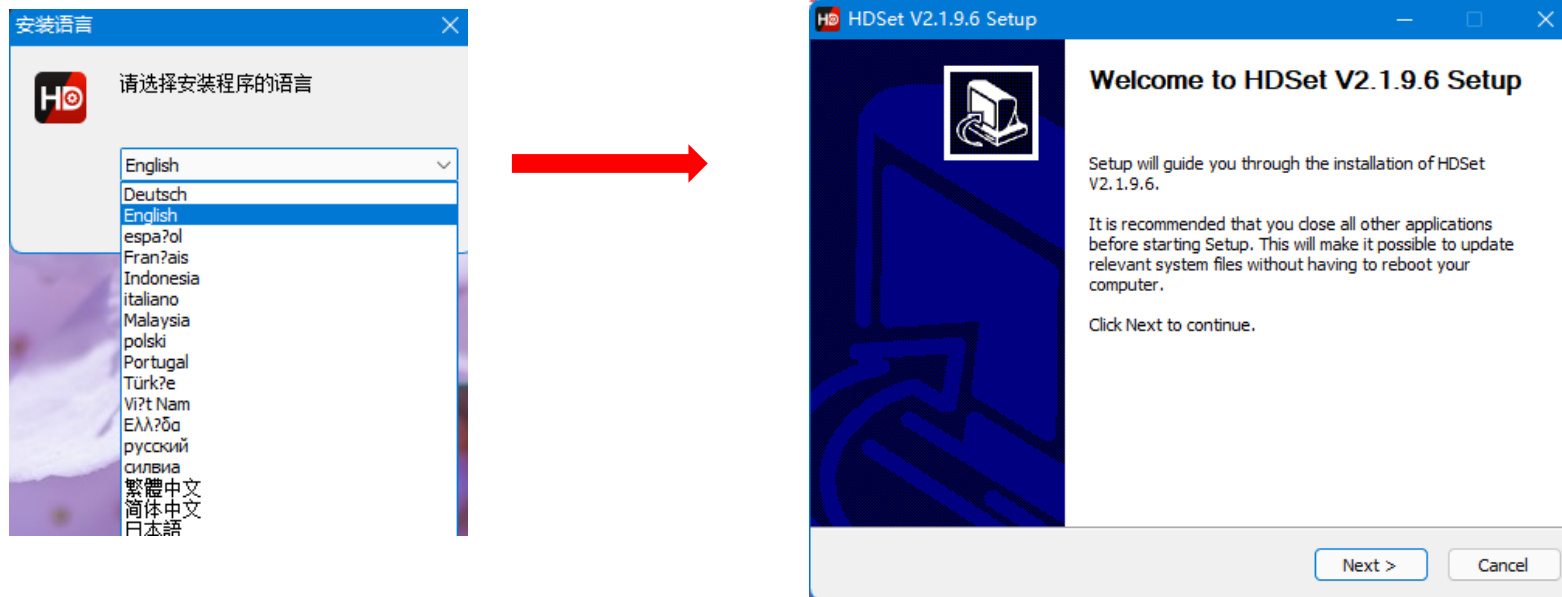
1.3 Hardware connection



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:

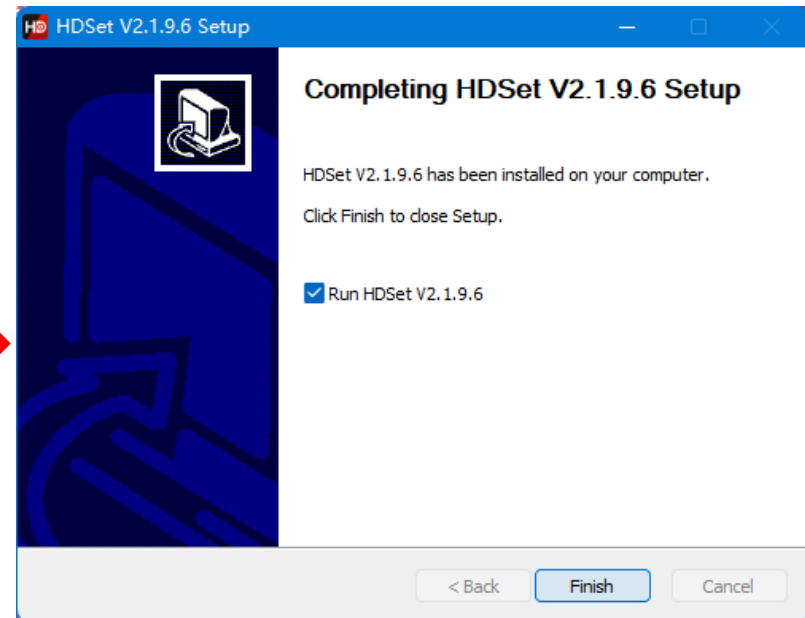
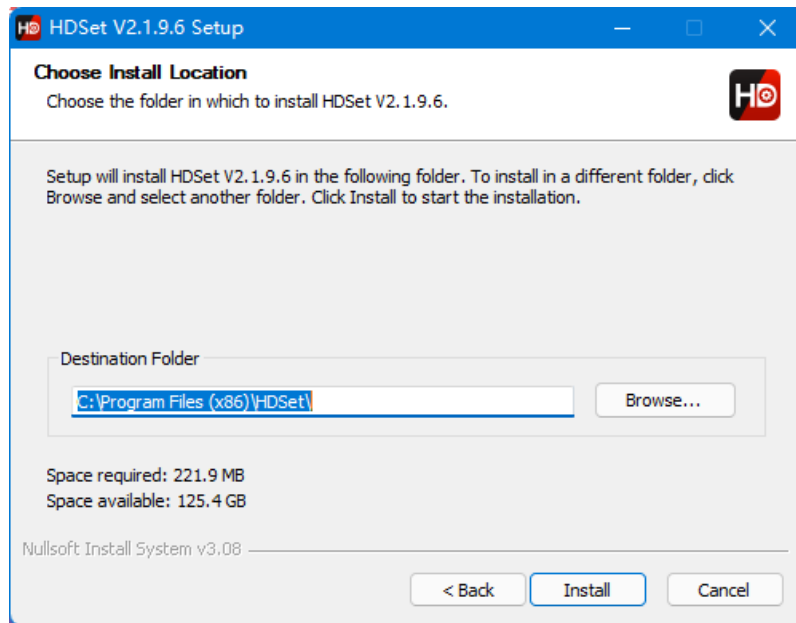
1.Run the software package,then select language for installer. Click [OK] to go on.



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-VP630 Parameter settings

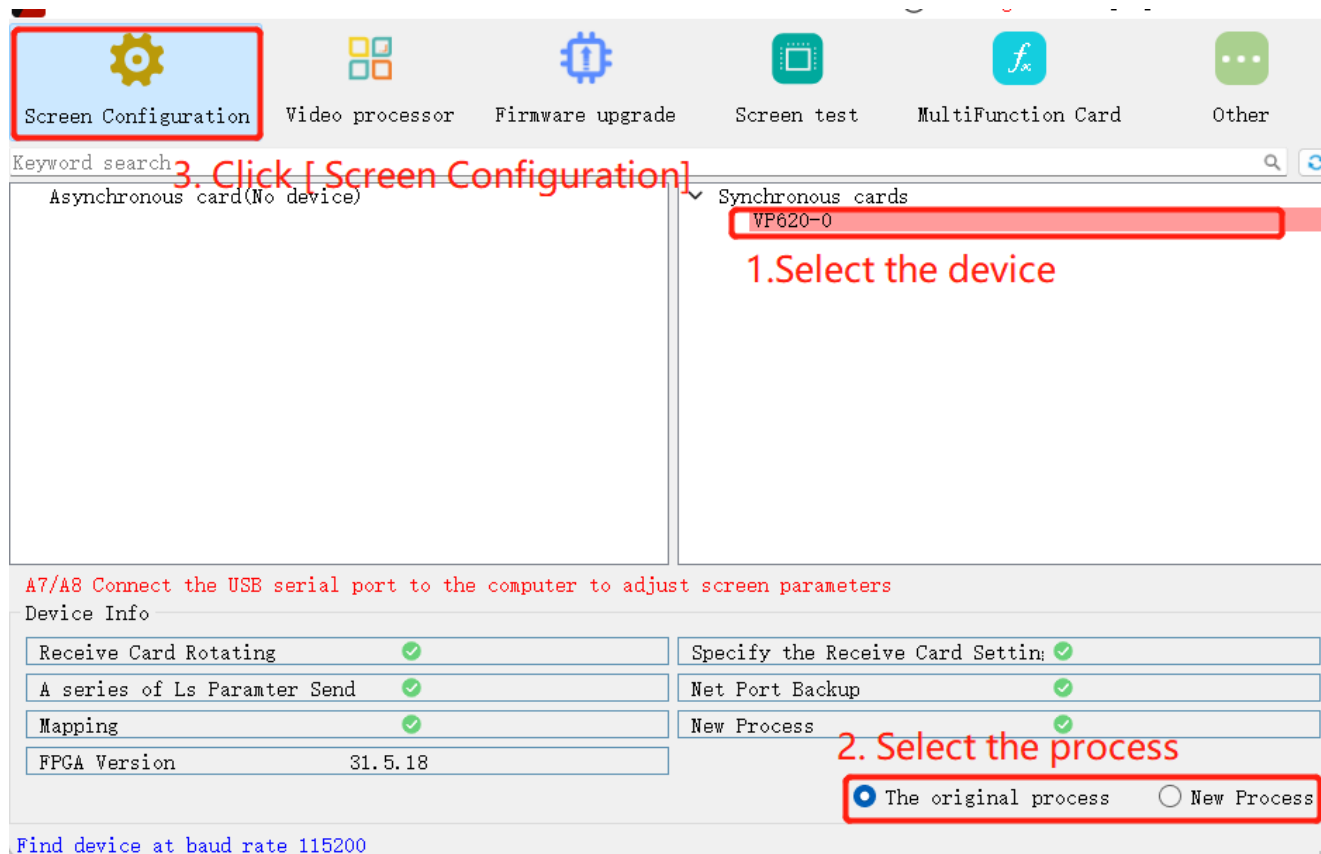
3.1 Connection

Connect the VP630 to the computer by USB-B type cable.

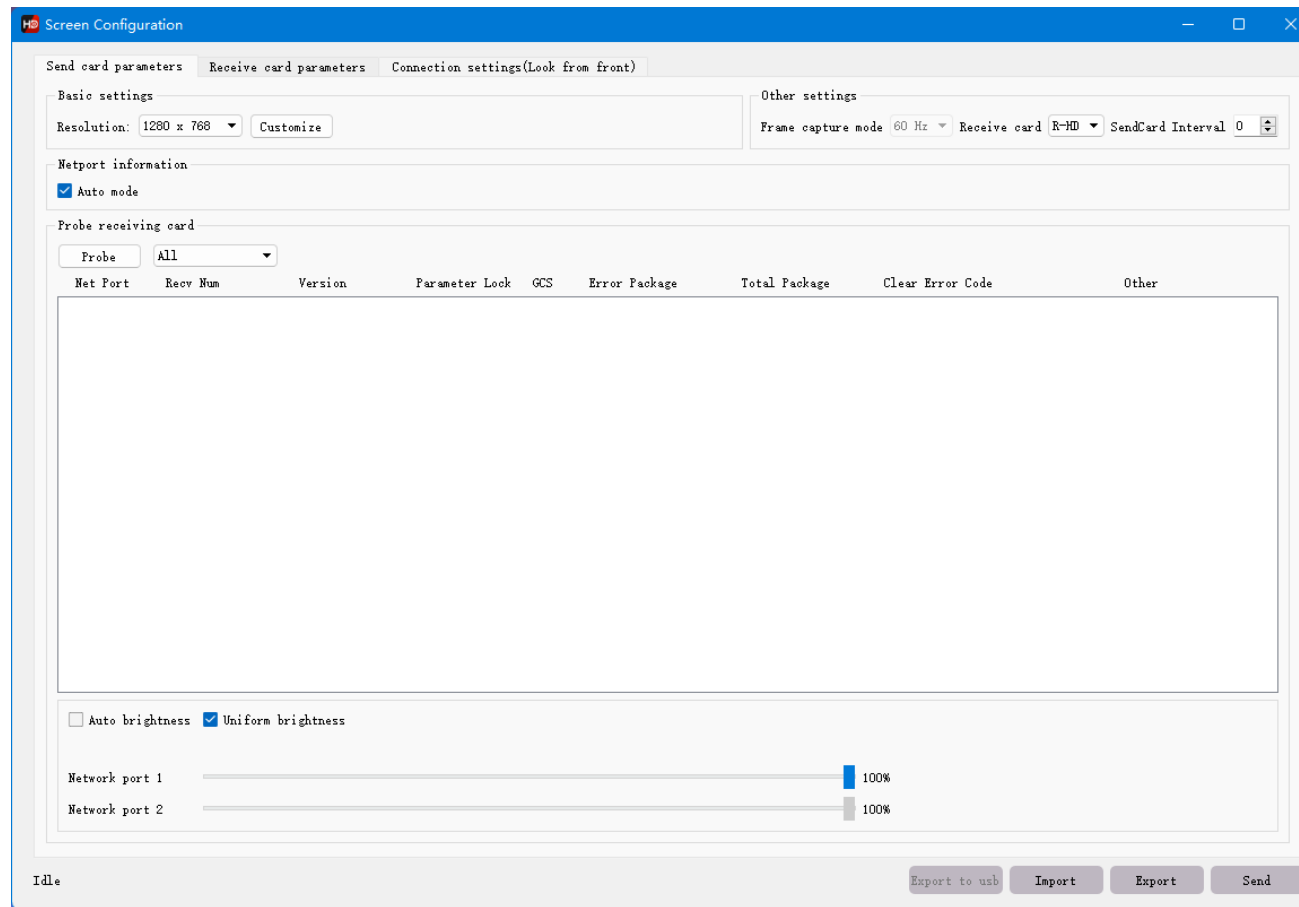


3.2 Screen Configuration

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-VP630 Product Operation

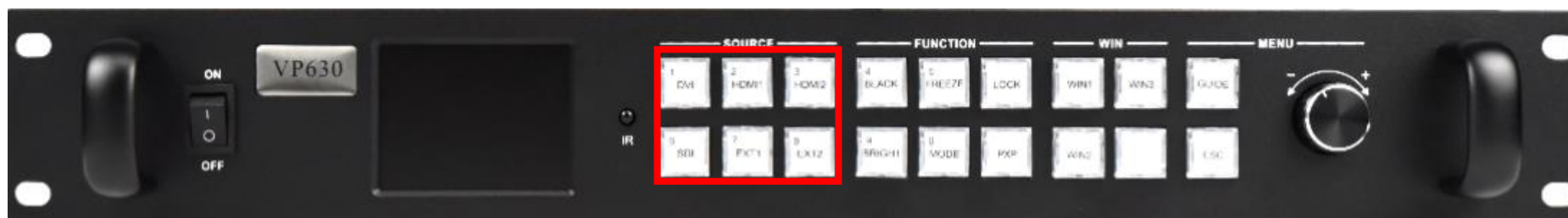
4.1 Interface Description



1. Input source for Windows, input resolution and refresh rate.
2. LED Network port, display the number of network ports currently in use.
3. Output resolution, output to screen resolution.
4. Brightness, Volume, the screen brightness, you can adjust the brightness by the following steps.

5. Button unlock, Lock the button by pressing "LOCK".
6. Input source, display the number of input interface currently in use.

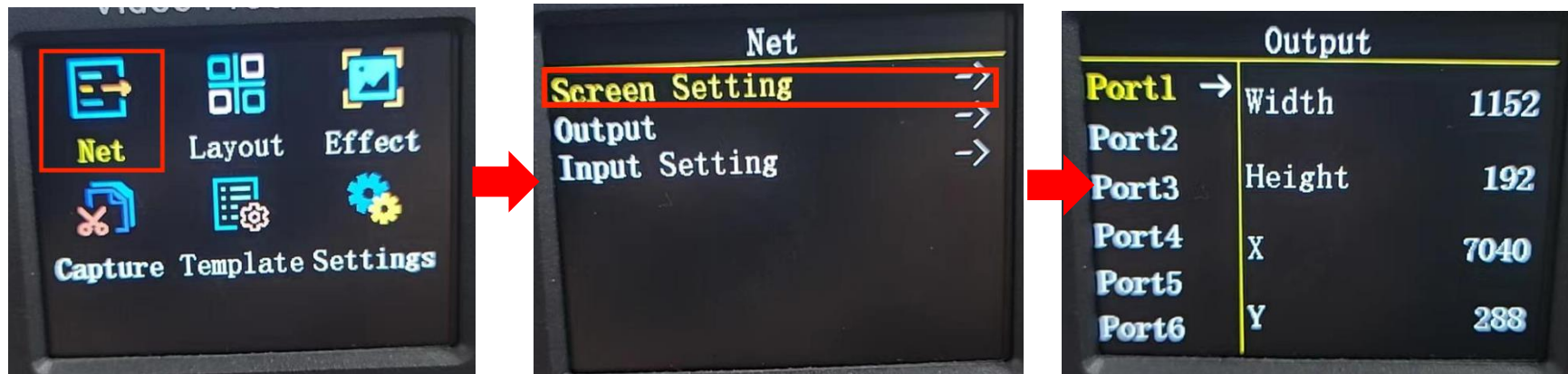
4.2 Input source switching



The HD-VP620 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.

4.3 Net

4.3.1 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;

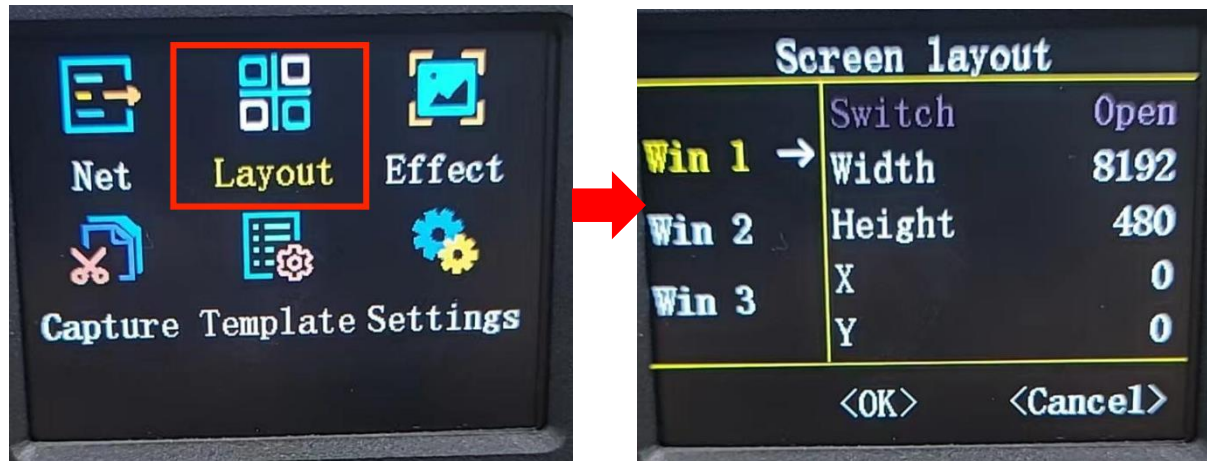
X: Horizontal start: setting parameter range = LED screen width-horizontal width;

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

4.3.2 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 50

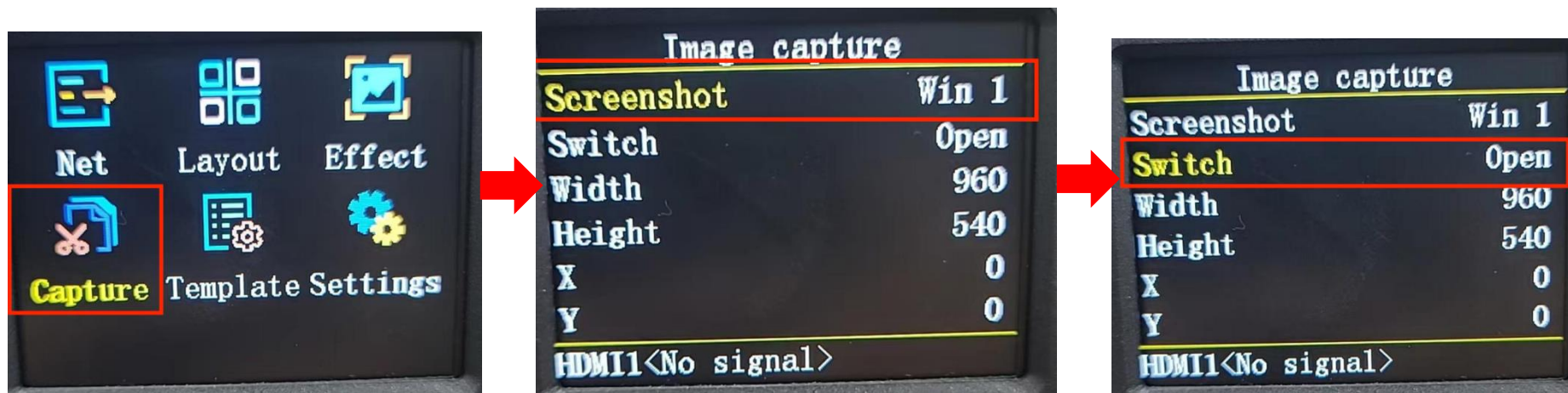
Sharpness: 0-10, default 5

Contrast: 0-100, default 100

Saturation: 0-100, default 50

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

4.6 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

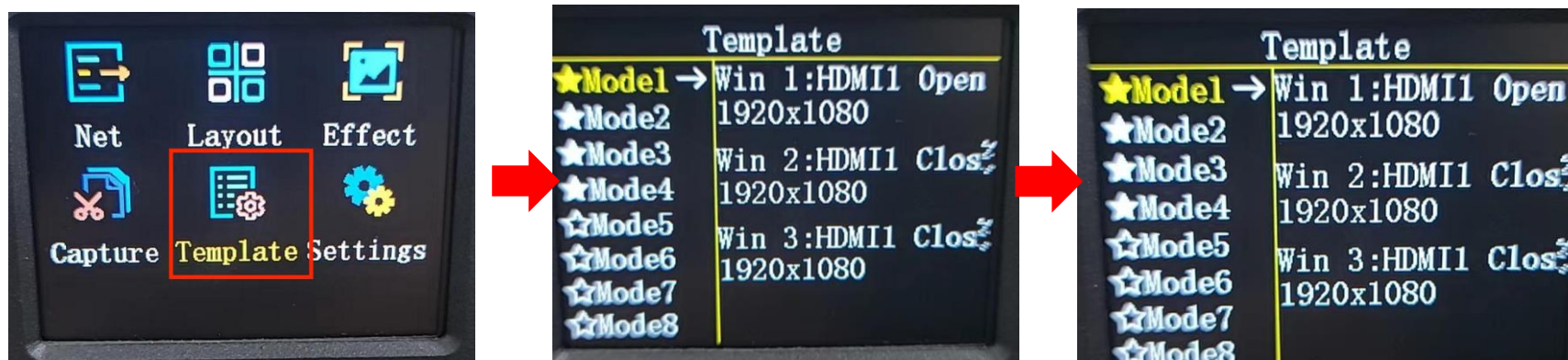
X: Horizontal start: horizontal start value range = input source width-interception width

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.

4.7 Template setting

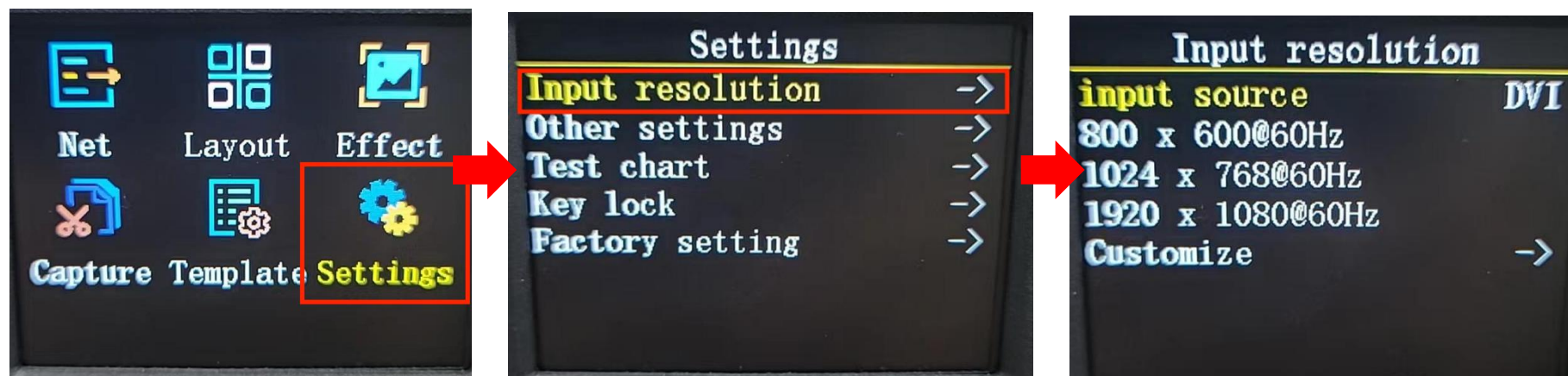


You can save up to 8 templates. '★' mean this teamplate is already occupied.

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

4.8 Settings

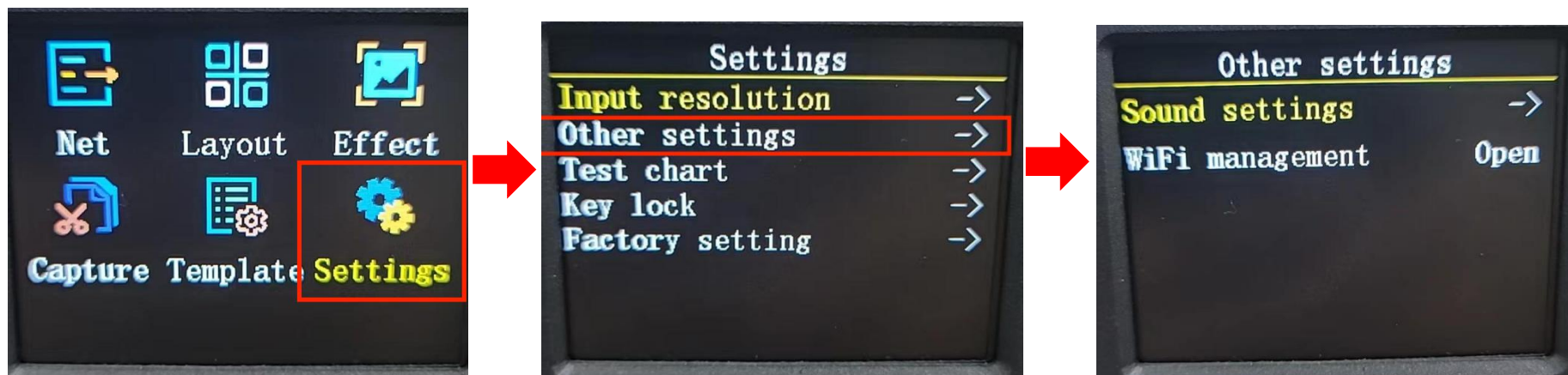
4.8.1 Input resolution



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

The default is 60Hz.

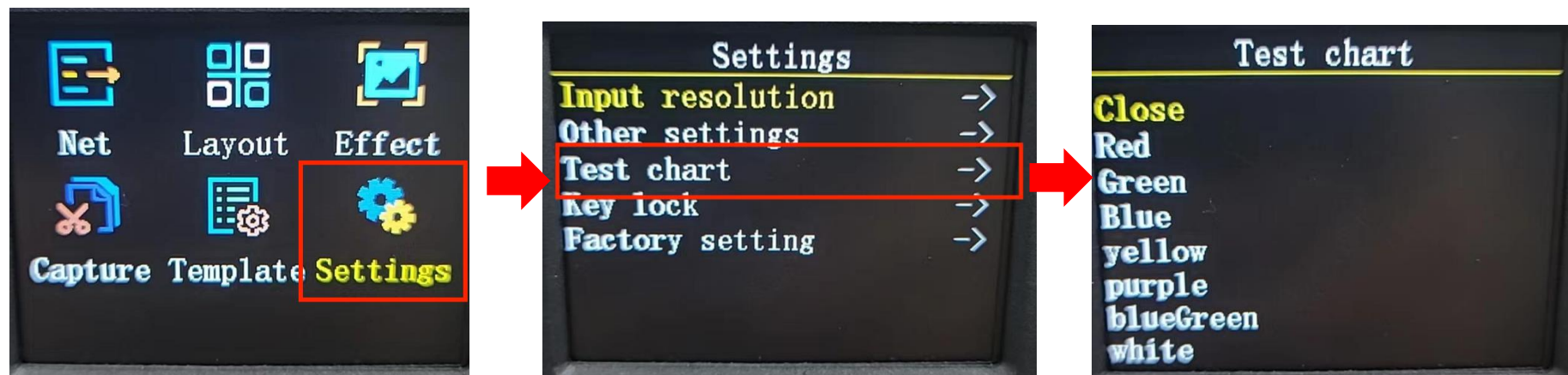
4.8.2 Other setting



Support turning on and off the sound, and volume adjustment.

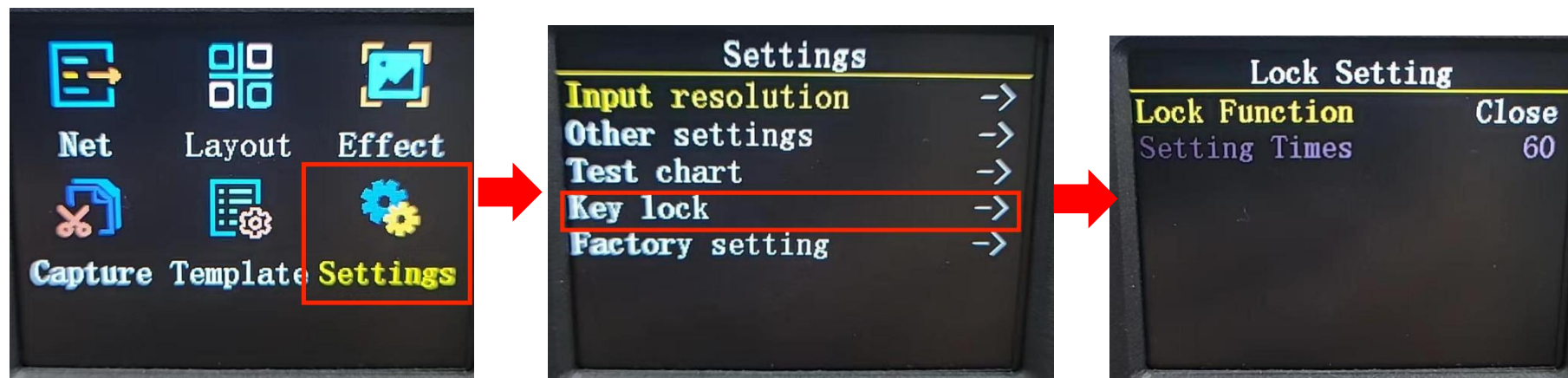
Support turning on and off the WiFi.

4.8.3 Test chart



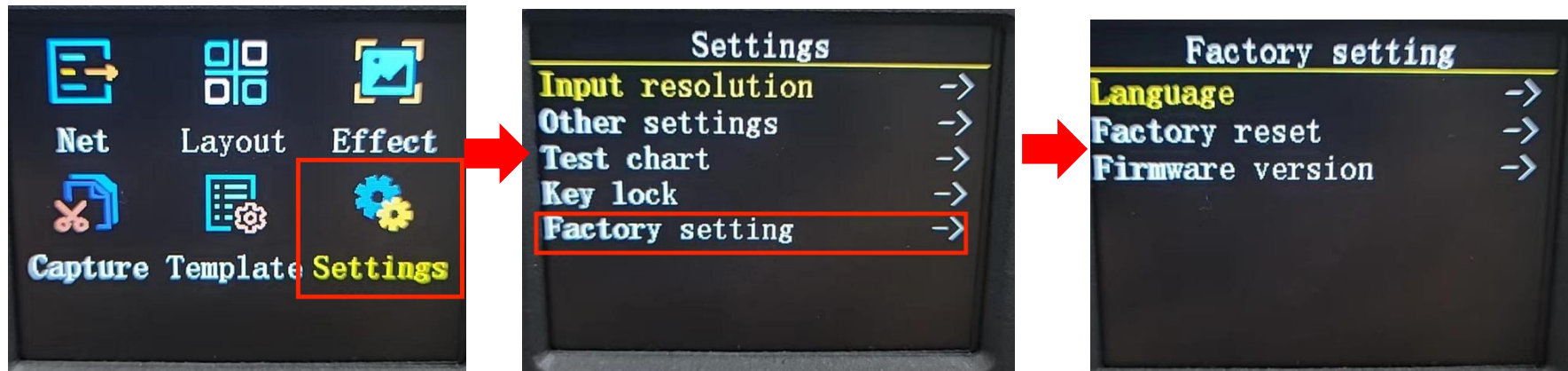
Support testing the color display.

4.8.4 Key lock

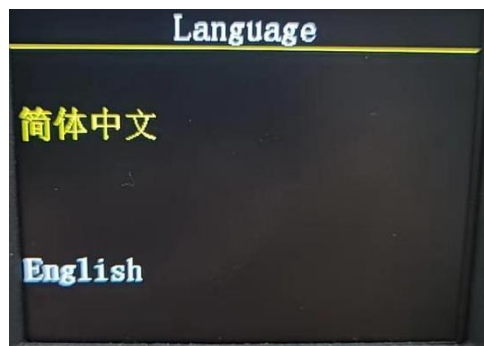


The key lock, the maximum support time is 3600 seconds, the key lock is automatically locked after the set time, except that the key lock button functions normally, other buttons are locked, and the function does not work, the button of “LOCK” will light up, you can press the “LOCK” button to unlock.

4.8.5 Factory setting

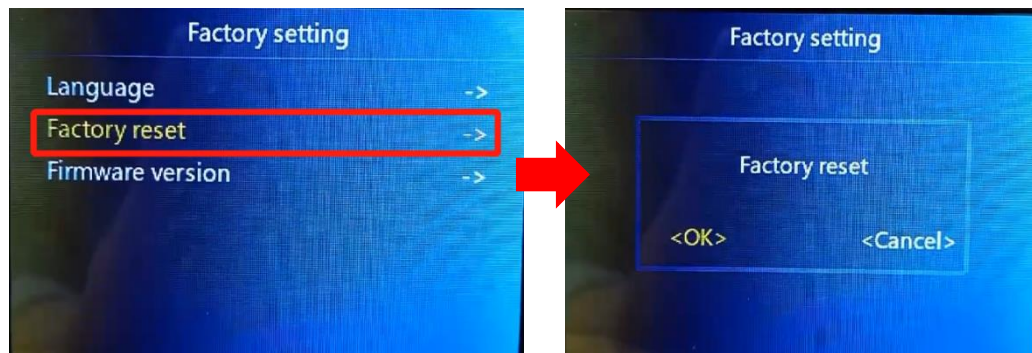


1. Language



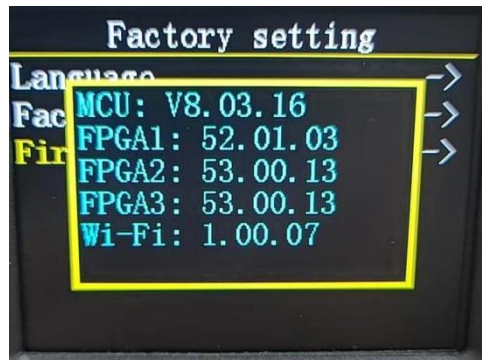
Language selection: support English, Chinese.

2. Factory reset



Restore the device to factory settings.

3. Firmware version



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