

## VSP 628 - Quick Start

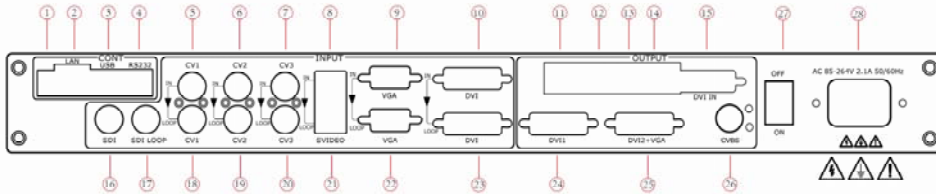
**NOTE** For full installation, configuration, and operation details, refer to the VSP 628 user manual, which is available at [www.rgblink.com](http://www.rgblink.com).

This guide provides quick start instructions for an experienced installer to set up and operate the VSP 628.

**IMPORTANT**  
Refer to [www.rgblink.cn](http://www.rgblink.cn) for the complete user manual and installation instructions before connecting the product to the power source.

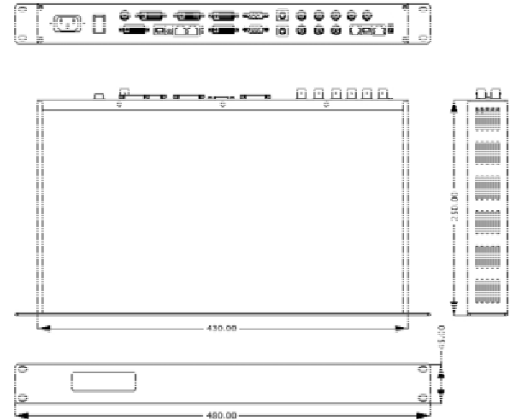
### Installation and cabling features

#### Rear Panel



### Connections

- |                                     |                      |
|-------------------------------------|----------------------|
| ① Small push button                 | ⑮ DVI Input          |
| ② 10/100M Interface                 | ⑯ SDI Input          |
| ③ USB Interface                     | ⑰ SDI Loop Out       |
| ④ RS232 Interface                   | ⑱ ~ ⑳ CVBS Loop Out  |
| ⑤ ~ ⑦ CVBS Input                    | ㉑ S-Video Loop Out   |
| ⑧ S-Video DIN 4                     | ㉒ VGA Loop Out       |
| ⑨ VGA Input                         | ㉓ DVI Loop Out       |
| ⑩ DVI Input                         | ㉔ DVI Output         |
| ⑪⑫ Gigabit copper port              | ㉕ DVI+VGA DVI Output |
| ⑬ Power supply port of sending card | ㉖ CVBS Output        |
| ⑭ USB control port of sending card  | ㉗ Switch             |
|                                     | ㉘ Power              |



### Step 1-Mounting

Turn off or disconnect all equipment power sources.

### Step 2-CVBS Input

Connect NTSC, PAL or SECAM component video to these female BNC connectors.



### Step 3-S-Video Input

Used to input S-Video signal (PAL, NTSC, SECAM compatible)



### Step 4-VGA Input

Input through computer or VGA source (compatible with YPBPR).



### Step 5-DVI Input

DVI are used to connect the video sources from HDD media player, DVD player and computer.



### Step 6-SDI Input

Can receive signal from HD player and HD camera.



### Step 7-SDI Loop Out

Can connect the next level VSP 628 or the device with SDI input.

### Step 8-CVBS Loop Out

Can connect the next level VSP 628 or the device with CVBS input.

### Step 9-S-Video Loop Out

Can connect the next level VSP 628 or the device with S-Video loop out.

### Step 10-VGA Loop Out

Can connect the next level VSP 628 or the device with VGA input.

### Step 11-DVI Loop Out

Can connect the next level VSP 628 or the device with DVI input.

## Step 12-Program Output

Used to connect with DVI-based display or LED control display.



## Step 13-Preview Output

Used to connect with DVI-based monitor so as to monitor the status of input signal, or connect VGA-based monitor via a DVI to VGA cable.



DVI to DVI+VGA splitter cable: one end is DVI-I or DVI-D male, the other end is DVI-I or DVI-D female together with VGA male.

DVI to VGA adapter, it has DVI-I male at one end and VGA male at the other end.



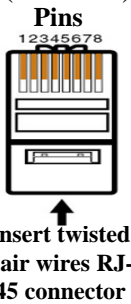
## Step 14-CVBS/SDI Output

Can receive signal from device with CVBS or SDI input (the interface is VSP 628 optional module).



## Step 15-LAN (Ethernet) port

Use twist CAT5 cable to connect to LAN port, user can control VSP 628 based on default IP address: 192.168.0.100. User can also change the IP address by RS232 or USB. Twist CAT5 should be one end in T568A, and another end in T568B standard. LAN (Ethernet) port is not for standard configuration.



Insert twisted pair wires RJ-45 connector

### Crossover Cable

Pin	End 1 Wire Color	End 2 Wire Color
1	White-green	White-Orange
2	Green	Orange
3	White-Orange	White-green
4	Blue	Blue
5	White-blue	White-blue
6	White-Orange	Green
7	White-Orange	White-Orange
8	Orange	Orange

CAT5 is wired as T568A at one end and T568B at the other is crossover.

## Step 16-USB Port

Connect control PC to USB port via USB cable.



## Step 17-Serial Port

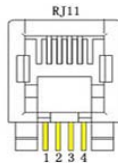
Use RS232 to RJ11 cable to connect a control system or computer to the back panel RJ11 port and the other end on RS232 port. RS232 to RJ11 cables as following definition.



Insert twisted pair wires RS232/RS422 connector

Pin	RS-232	Function	RS-422	Function
2	TX	Transmit	TX-	Transmit(-)
3	RX	Receive	RX-	Receive(-)
5	GND	Signal Ground	GND	Signal Ground
7	---	Not used	RX+	Receive(+)
8	---	Not used	TX+	Transmit(+)

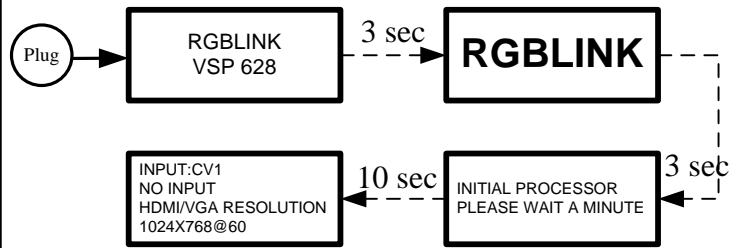
Pin	RJ-11	Function
1	---	Not used
2	RX	Receive
3	TX	Transmit
4	GND	Signal Ground



Insert twisted pair wires RJ11 Connector

## Step 18-Power

Plug in power cord which has IEC connector, VSP 628 support AC power from 85 to 265VAC, 50-60Hz, which means world wide compatible.



## Powering Up

Push power button switcher to ON position. LCD module on the front panel will show RGLINK and VSP 628 model information, and go into self verification before it load the last setting configuration data and send the processed image to the target displayer device. User can operate with VSP 628 through local front panel and remote control with the software run on the PC, remote control by RS232, USB or TCP/IP.

## Local Control-Front Panel Control



## Step 1-Set Output Resolution

- 1). Push **【MENU】** to the main menu, use UP or DOWN button to right OUTPUT, press OK to confirm.
- 2). Use UP or DOWN button to the right OUTPUT RES, press OK to confirm.
- 3). Use UP or DOWN button to right DVI/VGA RES, press OK to confirm, and use LEFT or RIGHT button to open output resolution setting.
- 4). Spin knob to select the desired output resolution, selected and press OK to confirm, press **【MENU】** to return and exit Settings.

**NOTE** VSP 628 supports 15 output resolutions as follows:

800x600x60Hz, 1024x768x60Hz, 1024x768x75Hz, 1280x720x50Hz, 1280x720x60Hz, 1280x768x60Hz, 1280x1024x60Hz, 1400x1050x60Hz, 1440x900x60Hz, 1600x1200x60Hz, 1680x1050x60Hz, 1920x1080x50Hz, 1920x1080x60Hz, 1920x1200x60Hz, 2048x1152x60Hz.

## Step 2-Input Switch

VSP 628 can realize seamless switching between 2 channels, only need to switch to video wall channel to choose, for example, key **【CV1】** light, then the video wall output signal is channel 1, if you want to switch to channel 2 signal, just press **【CV2】** and it will achieve seamless switching.

**NOTE** Switching speed can be adjusted through **【DIMMER】** button or (ALPHA) on PC software.

### Step 3-SCALE and POSITION Setting

For different channel, the output picture size and position may be different, VSP 628 can realize different channel image size and position arbitrarily regulating.

- 1). Press corresponding signal button to choose corresponding signal, for example, choose **【DVI】**.
- 2). Press **【SCALE】** to enter scale menu, which has 2 parameters, respectively picture WIDTH and HEIGHT.
- 3). Combined with **【POSITION】** key, which also has 2 parameters, level starting position POS X, vertical starting position POS Y.
- 4). According to pictures display demand, choose corresponding parameters and modify it to the needed parameters via the knob, then press OK key to confirm.

### Step 4-PIP Setting

VSP 628 **【PIP】** button can realize dual picture and single picture seamless switching. Most can output two different channel signal to screen arbitrarily, also can display two same channel same picture, specific operation as follows:

- 1). Choose IMAGE1, for example, choose **【CV3】** as IMAGE1 signal, press **【CV3】** button, it lights.
- 2). Press **【PIP】** button to start PIP function, and LCD screen prompt select PIP source.
- 3). SDI Choose Image2, press any key of 1-7, for example, choose **【SDI】** as IMAGE2 signal, press **【SDI】** button, it lights. PIP source choice completed, LCD screen display: INPUT CV3: SDI

**NOTE** If need to set PIP to 2 same channel signal, just press the lighted IMAGE1 when choose IMAGE2. If users need to set PIP size and position, specific operations as follows:

- 1). Press **【MENU】**, choose **【PIP SETTING】** in **【OUTPUT】** via knob, spin knob, choose IMAGE1 or IMAGE2, press OK to confirm.
- 2). Press **【SCALE】** or **【POSITION】**, choose the corresponding IMAGE2 items according to picture display demand and LCD screen prompt. Set corresponding image size and initial position via knob, then press OK to confirm.
- 3). After setting, press **【MENU】** to exit, and enter **【VIEW】** to save.

**NOTE** If need to switch to single picture, press **【PIP】** again, light out, and PIP is switched to single picture.

### Step 5-Save

Press **【MENU】**, choose VIEW by UP/DOWN knob, then choose SAVE, you can save current parameter to SAVE1 or SAVE2, and it is default SAVE1 when re-boot. User can also save to RECALL.

### Remote Control-- Software Control

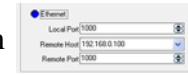
**NOTE** About how to install this software in the WINDOWS operating system, please refer to the user manual and please select the correct language version during installing process.

### Step 1-Set up communication

Choose useful RS 232 control port of computer, set baudrate 115200.



Communication button

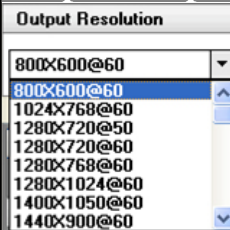


Default IP: 192.168.0.100

Set the computer in a network segment with different IP address, then communication, for example: 192.168.0.99

### Step 2-Output Resolution Setting

User can choose different output resolution by selecting from pull down list. VSP 628 has 15 output resolutions for users selection.



### Step 3-Input Signal Setting

User can choose one window and PIP by selecting from pull down list.

When the user choose one window, click the mouse on Display mode to choose input interface, if choose SDI input interface, the white area display the name of input interface. The green pane means current selected interface. as following:



When user choose PIP mode, the default one window chosen interface (green box) means selected interface for channel 1. Click any port on the toolbar, such as CV1, it can be channel 2 chosen input interface, The red pane means selected interface for channel 2.



**NOTE** Layout If in PIP mode, user can set the device to work in PIP or PBP mode.

### Step 4-Image Size and Position Setting



User can scale by modifying the number or click drop-down arrow, or dragging the edge of the image, and easily change the size and position of the picture. If user selects one window input mode, Images2 can not be chosen.

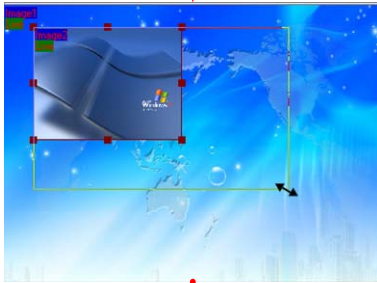
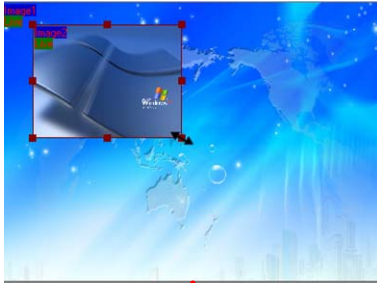


## NOTE

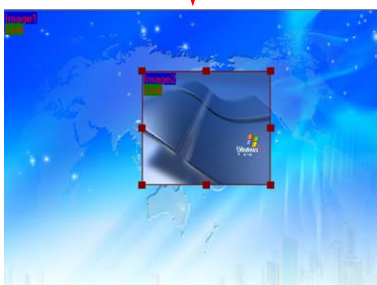
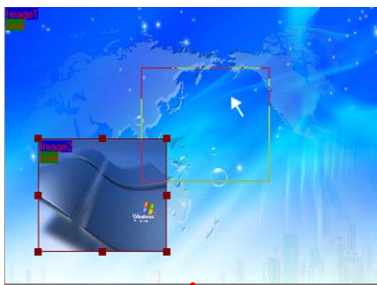
If user scale the image by modify the number on the toolbar, they then need click **Set** to output image.

When user scale or position setting by dragging the edge of the image, the edge of the chosen Image1 or Image2 (as follows: selected Image2) appears red box, and the square has divide eight red points.

1). User can customize image or images position and size just by drag and drop image (images) in this area:

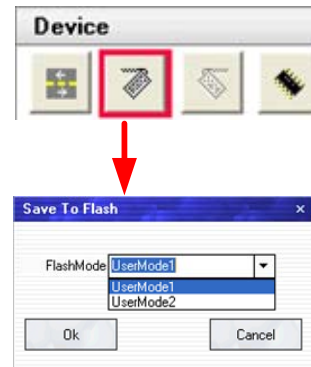


2). User can also long press left mouse button and drag the image to preliminary setting position, as follows:



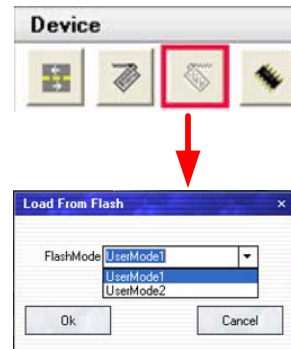
## Step 5-Save

User can save the current parameters to Usermode1 or Usermode2.

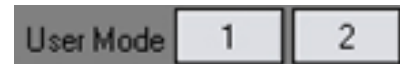


## Step 6-Recall

User can recall the saved Usermode1 or Usermode2, it is default Usermode1.



**NOTE** User can also recall the saved Usermode1 or Usermode2 through the icons below display bar.



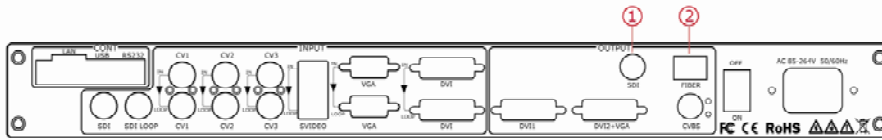
## Step 7-Factory Reset

When there is wrong operation during parameter adjustment, users can recall the device and readjust the parameter by factory reset, click the follow icons to initiate factory reset.



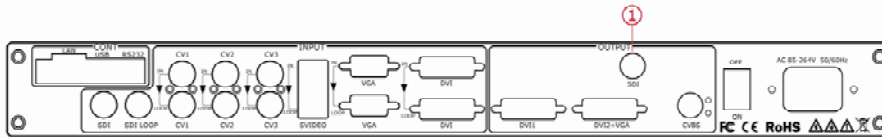
# SDI+SFP Optical Output Module

**NOTE** User can set the following 4 SDI output resolutions according to their need: 1280x720x50Hz, 1280x720x60Hz, 1920x1080x50Hz, 1920x1080x60Hz.  
Key operation menu as following:

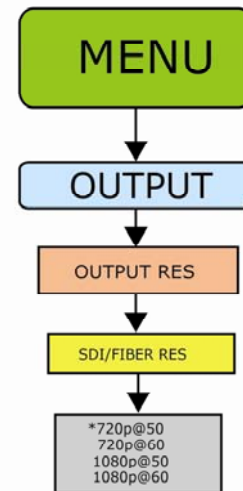


① SDI output interface BNC ② FIBER output interface SFP

## SDI Output Module




① SDI output interface BNC

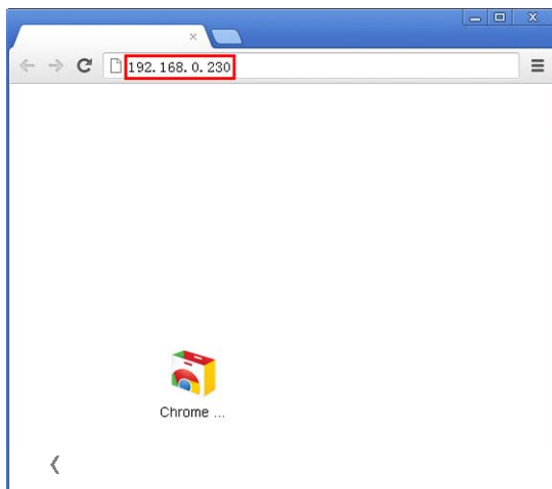


### WEB SERVER Cross-platform Operation

If users use ipad or iphone, they can input the website 192.168.0.230 (default) in Safari browsers to operate. If users need to modify VSP 628 IP address, they can input corresponding modified IP address. If users use other device, they need to install webkit kernel browser, such as: apple Safari, Google Chrome or Maxthon. Installation package provides Google Chrome browser (Windows version). Now take Google Chrome browser for example, specific steps are as follows:

#### Step 1-Set Up Communication

Click  to run Google Chrome browser, open the webpage and input 192.168.0.230 (default) to operate:



### Step 2-Output Resolution Setting

Enter the default home page, the system provides 15 kinds of output resolutions for choose, blue stripe means current selected output resolution. Selected, then VSP 628 will automatically update the output resolution.

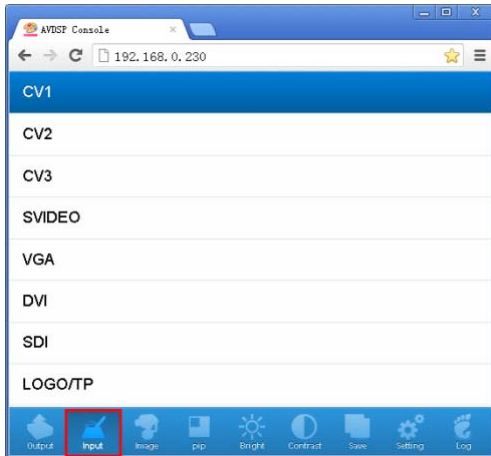


### NOTE

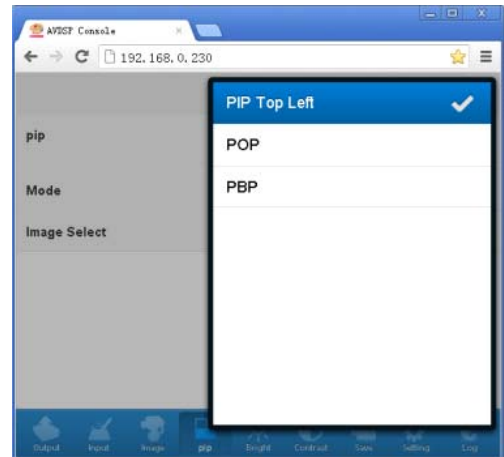
Users can freely switch the icons in title bar to set relevant functions.

### Step 3-Input Signal Switching

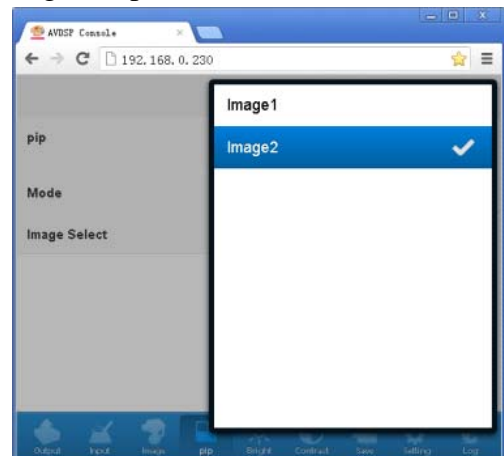
Select "Input" icon in title bar, user can click the signal source that need, select, VSP 628 will automatically update input signal source.



Then user can set PIP location, in addition to system default PIP upper left picture, also can choose picture above picture and picture edge picture.



In PIP mode, the default image1 is the main image, image2 for PIP image2, click the corresponding image when need to edit image1 or image2 , the selected image with blue stripes, tick, as shown below: image2 is selected, all all settings will for image 2. For example, you can switch "Input" icon in title bar to choose image 2 input source.

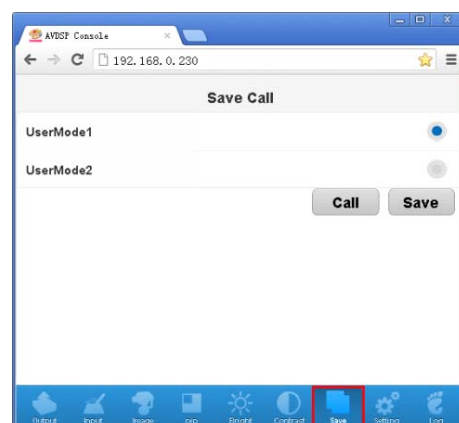


### NOTE

If image1 and image2 with the same input source, then it will display the same picture in PIP.

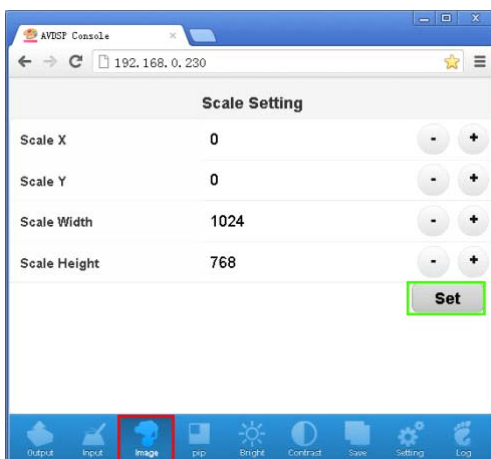
### Step 6-Save and Call

User can save the parameters to UserMode1 and UserMode2, and can also load UserMode1 and UserMode2 that saved before.



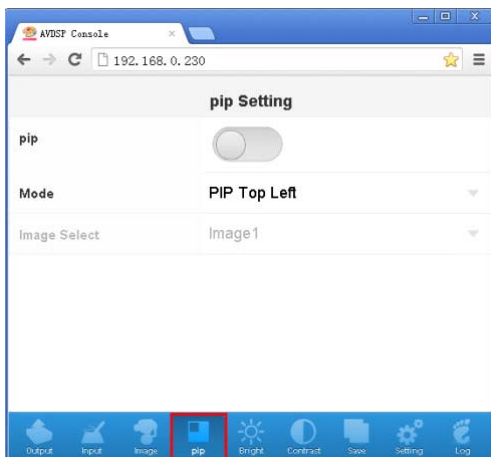
### Step 4-Image Size and Position Setting

Select "Image" icon in title bar to scale the image, user can modify digital setting parameters and image size and position easily through "+-" icon. Click "Set" after modify the digital, VSP 628 image will display the latest Settings;

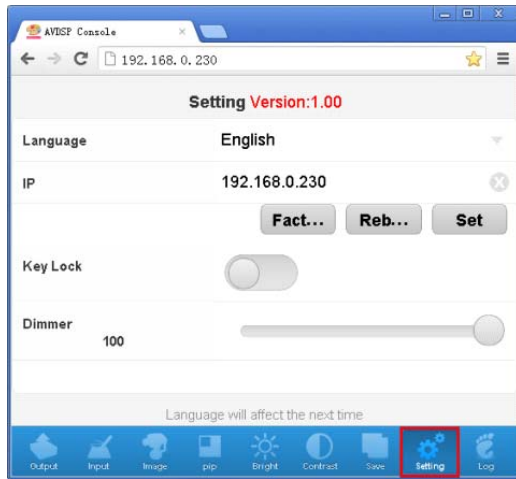


### Step 5-PIP Setting

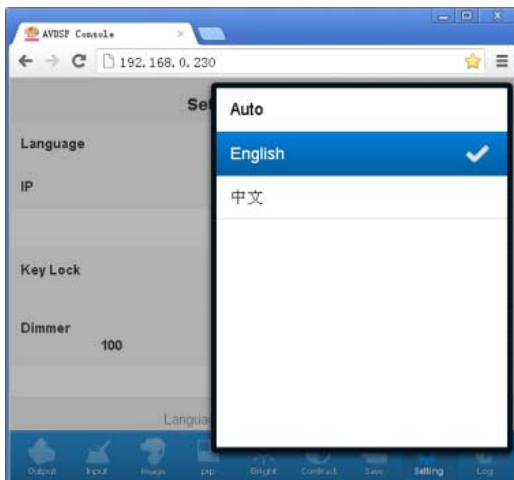
Select "PIP" icon in title bar. When the PIP sliding block icon is grey, then it is single channel picture mode, and if image selection is gray, then image 1 is default for single image output image, and can't be chosen.



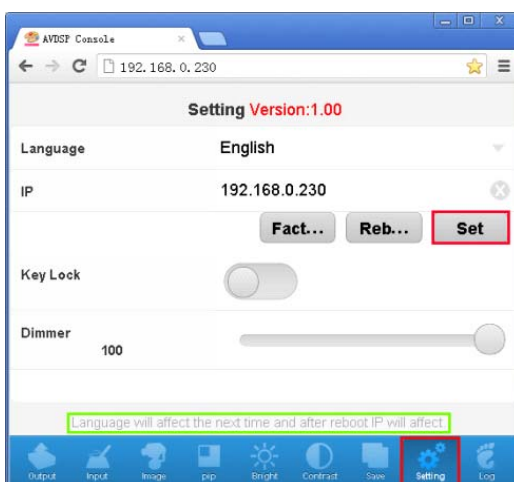
## Step 7-Other Setting



First, choose the language according to user's need. And the default is automatic identification.



"Set" after select the language (such as select Chinese), pay attention to system prompt "Language will effect after the next time and after reboot IP will affect" (at green box); Now you need to refresh the page to complete the setting.



If need to modify IP address, also click "Set" after input the IP address, pay attention to system prompt "Language will effect after the next time and after reboot IP will affect" (at green box); Now you need to click "Reb..." to complete the IP modify.



Reset: If appear wrong operation, click "Reset" to factory default.

Key Lock: If slide block is gray, it is unlock, and VSP 628 keys can normally operate; And if slide block is green, the VSP 628 keys lock, and user can't operate any button.

Dimmer: ALPHA transparency regulation. Drag ball to change the transparency value, transparency value is between 0 ~ 100 levels.

**NOTE** Operation is invalid in PIP mode.