RGBlink VIEWSIZE THE WORLD

# VSP 9516S Quick Start

- Max 2048×1152@60Hz/2560×816×60Hz input/output resolution
- User-defined resolution adjustment
- Picture in picture
- Audio and video sync
- Seamless switching between inputs
- DSK for subtitle overlay
- LED display connection from front panel directly
- Two LED sending card install inside already

# CONTENT





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# Product Introduction

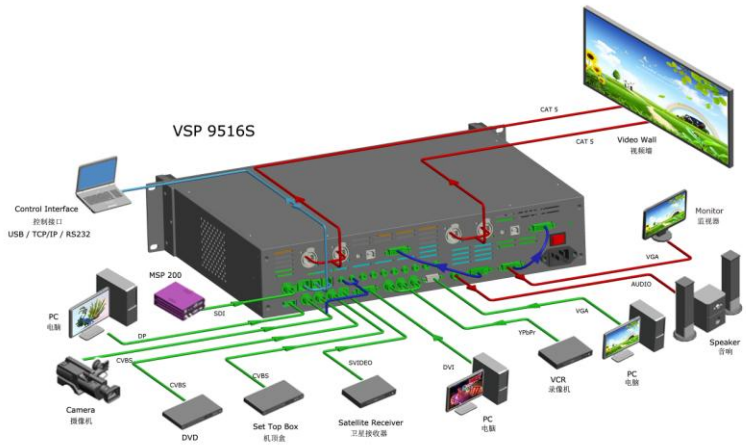
VSP 9516S is the first LED video processor developed by RGBlink which does support the LED display connection function. It supports inputs including 3×CVBS, 1×S-Video, 1×YPbPr, 1×VGA, 1×DVI-I (compatible with HDMI), 1×Displayport, 1×3G-SDI, up to 9 channels inputs, and 2×DVI-I, 1×VGA, up to 3 simultaneous outputs. VSP 9516S is not only a video scaler for video and graphic processing or just provides power and makes room for the sending cards to install inside.

VSP 9516S embedded a special menu for local control LED display by its each LED sending card in connected, operator will easily operate display connection, brightness adjustment, Gamma correction by <DISPLAY CONNECTION> menu after decide the sending card model.

VSP 9516S integrates Display Setting Remote Control Interface with the video processing remote control software also, operator will have more remote control options.

## System Connection

RGBlink offers solutions to demanding technical problems. Any application questions, or required further information, please contact with our customer Support Engineers.




VSP 9516S System Connection Diagram



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# Packing Configuration

**Power Cord**

**SDI Cable**

**DB9 to RJ11 Cable**

**RCA to BNC Cable**

**DVI-D Cable**

**USB Cable**

**USB Disk**


**Screw Driver**

**Antistatic Bag**



**Certification**

**Note:** SDI cable is only for VSP 9516S.

Chinese Standard, American Standard or European Standard power cord is option.

The color of the screw driver is randomly when packing.



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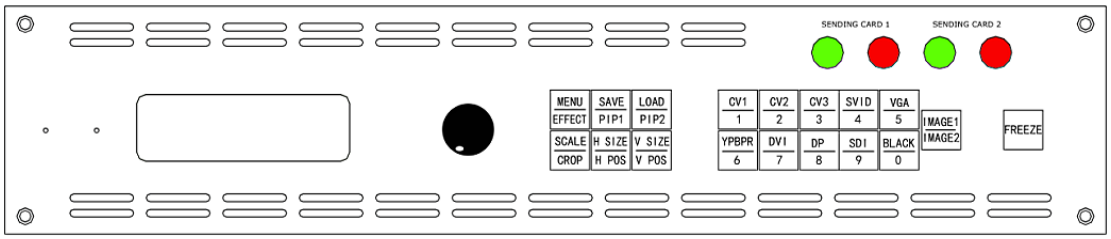
# Hardware Orientation

## Front Panel




| **Button Instruction** | | | |
|---|---|---|---|
| MENU/EFFECT | Menu and effect reuse button | DP | Displayport signal source button |
| SAVE/PIP1 | Save and PIP reuse button | SDI | SDI signal source button |
| LOAD/PIP2 | Load and PIP reuse button | BLACK | Black button |
| SCALE/CROP | Scale and crop reuse button | IMAGE1/ IMAGE2 | IMAGEA and IMAGE B select reuse button |
| H SIZE/H POS | Width and horizontal position setting reuse button | FREEZE | Freeze button |
| V SIZE/V POS | Height and vertical position setting reuse button | 0~9 | Number button, use for scale and custom setting |
| CV1,CV2,CV3 | CVBS signal source button | Green indicator | Signal indicator, the light is on when device has signal input |
| SVID | S-Video signal source button | Red indicator | Power indicator, the light is on when device has power supply |
| VGA | VGA signal source button | OLED Panel | Show operation menu items |
| YPBPR | YPBPR signal source button | Knob | Confirm and adjust LCD menu |
| DVI | DVI signal source button | | |



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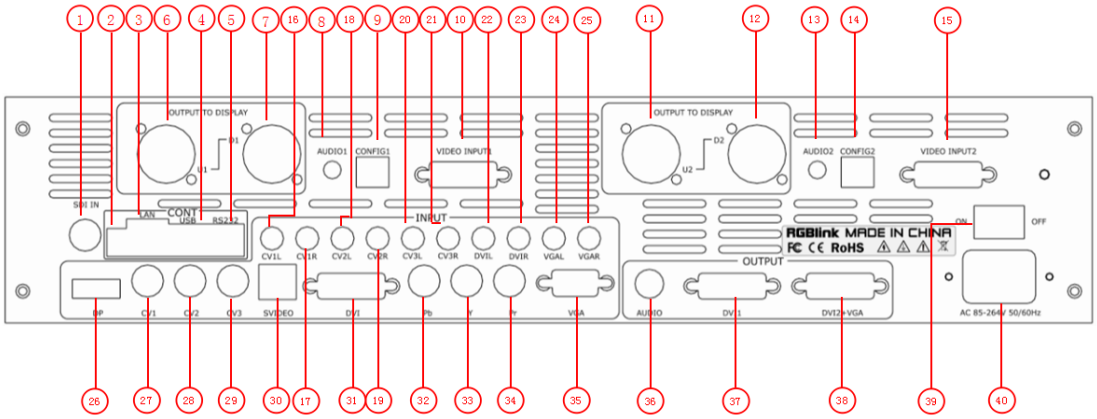
# Back Panel



| Input Interface | |
|---|---|
| 1 | 3G-SDI input BNC Port |
| 16~25 | Audio Input Port |
| 26 | Displayport Input Port |
| 27~29 | CVBS Input BNC port |
| 30 | S-Video Input DIN 4 Port |
| 31 | DVI Input DVI-I Port |
| 32~34 | YPbPr Input |
| 35 | VGA Input DB15 Port |

| Output Interface | |
|---|---|
| 36 | Audio Output |
| 37 | DVI Output DVI-I port |
| 38 | DVI+VGA Output DVI-I |

| Other Interface | |
|---|---|
| 2 | Dial Switch |
| 3 | 10/100M Interface RJ45 |
| 4 | USB Interface USB-B Port |
| 5 | RS232 Interface |
| 6.7.11.12 | Gigabit Copper Port |
| 8.13 | Audio Input of Sending Card |
| 9.14 | USB Control Port of Sending Card |
| 10.15 | DVI Input Port of Sending Card |
| 39 | Power Switch |
| 40 | Power IEC-3 |



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# Operating Instruction

## Content





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# How to Realize Single Image Switching

1. Boot the system default CV1 to the current input source, if need seamless switching other source such as DVI, push DVI button.
2. CV1 button light turns off after pushing DVI button. DVI button light is on if the DVI signal is effective and stable. And if the DVI signal is invalid or no input, DVI button light will flash.

   Note: Only cut switching is supported among the switch of CV1, CV2 and CV3.

# How to Set up the PIP

Push the [SAVE/PIP1] or [LOAD/PIP2] button for two times, button led light is on, and enter to the PIP function menu.

LAYOUT: Can choose PIP layout, the corresponding results are as follows:

PIP L+T

PBP L+R

PBP T+B

SWAP IMAGE: It can set PIP to swap exchange, when choose ON, it can realize the IMAGE A and IMAGE B exchange.

ALPHA: Can set the image transparency, the regulating range is among 0 to 16.

SELECT: Can choose to set the size or position of IMAGE A or IMAGE B individually.



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# How to Do Customized Output Resolution

Push the [MENU/EFFECT] button to enter the menu items, turn the knob and choose <OUTPUT>, push the knob to confirm. Turn the knob, choose <OUTPUT FORMAT>, push the knob to confirm and go into the output format menus, as following:

**STANDARD--Standard resolution.**

**CUSTOM--Used defined resolution setting.**

Push knob and go into <CUSTOM> menu:

1. Turn the knob on each digital position, and change the value of the digital by the digital buttons on the front panel.
2. After the digital, push the knob will add *, means before * is the horizontal size. Same operation for vertical size:
3. After the digital, push the knob will add @, means before the @ is the vertical size, and after the @ is the refresh rate. Only digital 50 or digital 60 supports for the refresh rate. Use the digital buttons to finish the settings.
4. After input all the values, push knob to enable VSP 9516S to output this resolution. VSP 9516S will take 5-10 seconds to enable this output resolution.

# How to Set up the Size and Position of the Single Image

Push the [SCALE/CROP] button, and enter the scale function menus, the OLED module show as follows.

The lights of number button 0~9 turn on, user can adjust the following items by knob or number buttons.

H SIZE: Width setting.

V SIZE: Height setting.

H POS: Horizontal phase setting.

V POS: Vertical phase setting.

RESET: If image quality distorts by improper operation, it can be recover by reset.



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# How to Realize the Screen Size Setting

VSP 9516S supports the screen parameters to meet the requirement where user want to switch between scale screen size and full display size (like monitor). This is only enable for a single display window. Following is an example of a screen size is1408 x 832.

Operator can defined the VSP 9516S output resolution from standard output resolution list or customized the output resolution which is higher than 1408 x 832. For this application 1440x900 is an example:

Push the [MENU/EFFECT] button to go into the menu items, turn the knob and choose <OUTPUT>, push the knob to confirm, then turn the knob and choose <SCREEN>, push the knob and goes into the screen menus as following:

**H SIZE--**Horizontal pixels, turn knob or use the digital button to input the value1408.

**V SIZE--**Vertical pixels, turn knob or use the digital button to input the value 832.

**H POS--**Horizontal position, default value is 0, set the value as the way of H SIZE and V SIZE.

**V POS--**Vertical position, default value is 0, set the value as the way of H SIZE and V SIZE.

**MODE--** Mode option, choose SCREEN SIZE.




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# How to Realize the Text Overlay Setting

Before setting the text overlay, please make sure the input channel of the text. For example, set VGA input as the text channel. Then make sure the channel that the text will overlay, for example, overlay the text on CV1 channel. The operations are as follows:

1. Push VGA button to make sure there is VGA input.
2. Push CV1 button to make sure there is CV1 input.
3. Push the [MENU/EFFECT] button, turn the knob, choose <OUTPUT>, push the knob to confirm, turn the knob, and choose <TEXT OVERLAY>, push the knob to confirm.

   Then enter into <TEXT OVERLAY> menu items, turn the knob, and choose <TEXT OVERLAY>, push the knob to confirm, turn the knob again, and choose “ON” to enable the text overlay function.
4. Make sure VGA input is IMAGE B, and CV1 input is IMAGE A, if not, choose <SWAP WINDOW> option in <PIP>, and choose “ON” for <SWAP WINDOW>.
5. Choose the VGA image in “IMAGE B” in <SELECT> in <PIP> menu, and push [SCALE/CROP] button to adjust the size and position of VGA image, then set the VGA image to the required position. The standard position and size is: ensure the VGA image overlay on the CV1 image, display normally and without black edges. If there are black edges around VGA image, choose <ZOOM> option in <PICTURE> to adjust.
6. Set the text overlay mode: choose <PRESET> option in <TEXT OVERLAY>, push the knob to enter into the <PRESET> menu items. Turn the knob to choose the preset mode, for example, set the VGA text as WhOnBk, choose WhOnBk1 or WhOnBk2 (Note: Text Overlay only support monochrome subtitles), user can also adjust the <BLEND MODE> or <BLEND LEVEL> to get a better effect.
7. Push the [SAVE/PIP1] button to save the above parameters.



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# How to Set up the Volume

In single image mode, the operations are as follows:

1. Push [MENU/EFFECT] to enter the menu items, turn the knob, choose <AUDIO>, push the knob to confirm, turn the knob, and choose <MUTE>.
2. Turn the knob, and choose “OFF”, disable the mute function.
3. Turn the knob, choose <VOLUME>, turn the knob to adjust the volume.

In PIP mode, first, choose IMAGE A or IMAGE B as audio input source, specific steps are as follows: MENU → AUDIO → AUDIO IN → IMAGE A/IMAGE B, or push the [IMAGE1/IMAGE2] button, choose IMAGE A or IMAGE B, then repeat the step1 to 3 above.

# How to Realize LED Display Connection

VSP 9516S can realize three connections as follows: connecting the Port D or Port U of one sending card to LED display, connecting the both Port D and Port U of one sending card to LED display, connecting the Port D and Port U of two sending cards to LED display. The following are the detailed operation steps of the three connections.

**1. Connect the Port D or Port U of One Sending Card to LED Display**

Here we take No.1 sending card, port U1 for example. (Note: No.1 sending card corresponding to port D1 and port U1, No.2 sending card corresponding to port D2 and port U2.

(1) First, make sure that the device is in normal operation. The red power indicator lights when the device has power supply and the green signal indicator lights when device has signal input.

(2) Choose the input signal, for example, choose DVI.

(3) Connect the cable to Port U1.

(4) Turn the knob, choose <SENDING CARD TYPE>, push the knob to confirm, turn the



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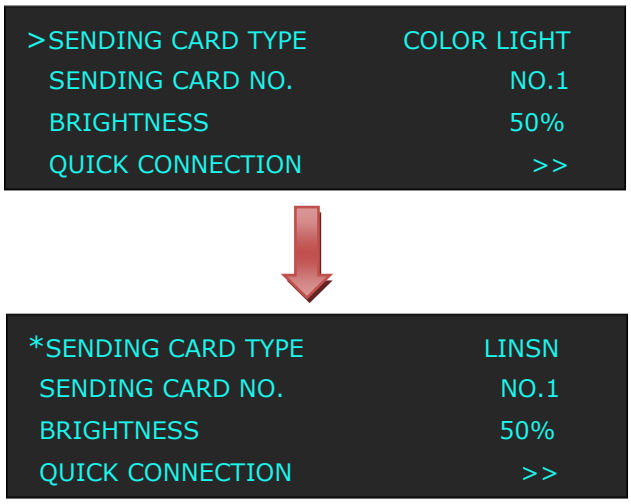
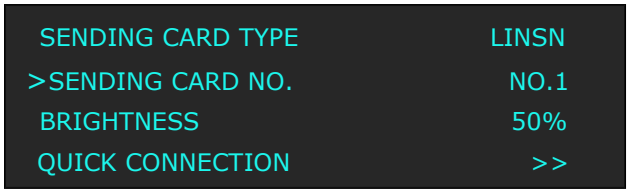
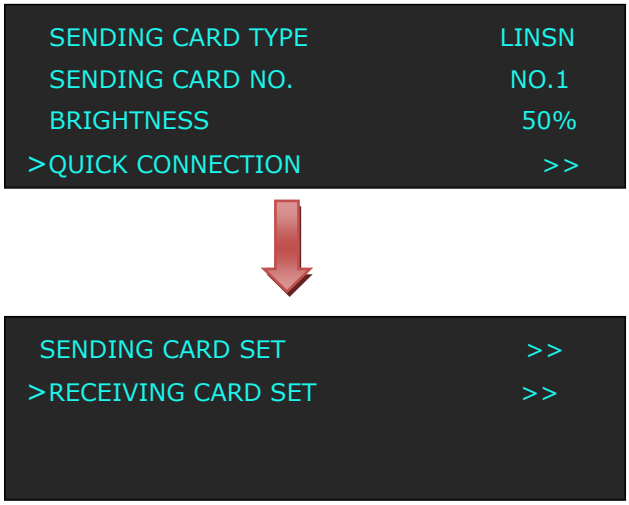
knob, choose the sending card type, for example, choose Linsn (VSP 9516S can only support Linsn and Colorlight sending card). Shown as follows:




（5）Turn the knob, choose <SENDING CARD NO.>, push the knob to confirm, turn the knob, choose NO.1, push the knob to confirm.




(6) Turn the knob, choose <QUICK CONNECTION>, push the knob to confirm. Turn the knob, choose <RECEIVING CARD SET>, push the knob to confirm, and enter to the to the next level menu, the OLED module show as follows:



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| | |
|---|---|
| >CHOOSE CABLE | PORT D |
| HORIZONTAL CARD | 1 |
| VERTICAL CARD | 1 |
| WIDTH | 64 |

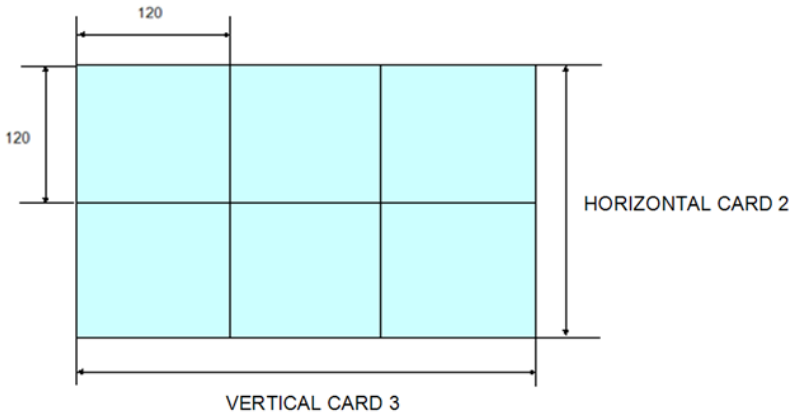
(7) Choose <PORT U>, and set the horizontal card, vertical card, width and height.

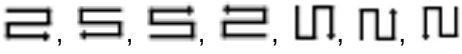
For example, set horizontal card as 2, vertical card as 3, width and height as 120, shown as follows:

| | |
|---|---|
| >CHOOSE CABLE | PORT U |
| HORIZONTAL CARD | 2 |
| VERTICAL CARD | 3 |
| WIDTH | 120 |

| | |
|---|---|
| >HEIGHT | 120 |
| D PORT Offset (A/B) X | 0 |
| D PORT Offset (A/B) Y | 0 |
| DISPLAY CONNECTION | >> |

The setting is as follows:




(8) After setting, turn the knob, choose <DISPLAY CONNECTION>, push the knob to confirm, turn the knob again, and choose <CONNECTION MODE>. VSP 9516S supports 8 kinds of connection modes, they are 



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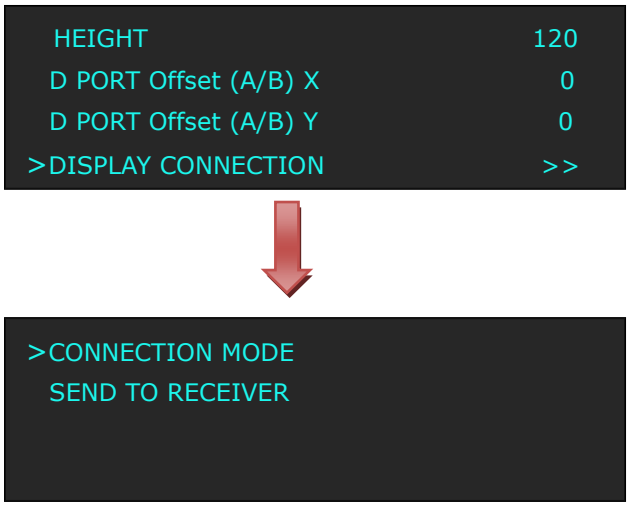
and ⊔⊓, user can choose the mode according to actual connection mode.




Send to receiver after choose the connection mode, observe the LED display and make sure if display image is correct. If wrong, change the connection modes. Then connect the Port D or Port U of One Sending Card to LED display is finished.

(9) The setting for port D1 is same as the above setting.

Rendering is as follows:


**2. Connect the Port D and Port U of One Sending Card to LED Display**

(1) First, make sure the device is in normal operation. The red power indicator lights when device has power supply and the green signal indicator lights when device has signal input.

(2) Choose the input signal, for example, choose DVI.

(3) Connect one end of the cable to Port D1, and the other one to U1.



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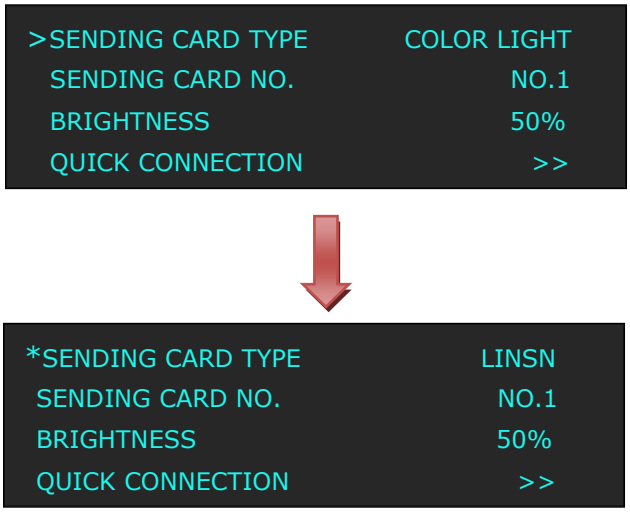
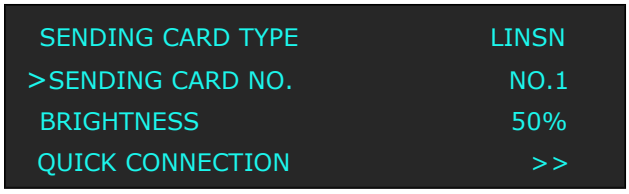
(4) Connect Port U1 of No.1 Sending Card to LED display, the settings are the same as Step 4 to Step 8 of "**Connect the Port D or Port U of One Sending Card to LED Display**".

(5) Connect Port D1 of No.1 Sending Card to LED display, setting steps are as follows:

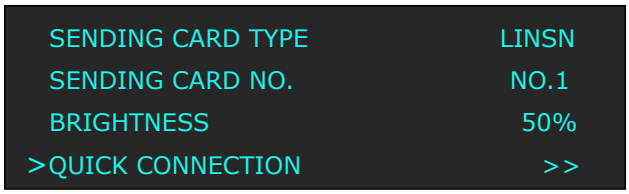
a. Turn the knob, choose <SENDING CARD TYPE>, push the knob to confirm, turn the knob, choose the sending card type, for example, choose Linsn (VSP 9516S can only support Linsn and Colorlight sending card). Shown as follows:




b. Turn the knob, choose <SENDING CARD NO.>, push the knob to confirm, turn the knob, choose NO.1, push the knob to confirm.




c. Turn the knob, choose <QUICK CONNECTION>, push the knob to confirm. Turn the knob, choose <RECEIVING CARD SET>, push the knob to confirm, and enter to the to the next level menu, the OLED module show as follows:



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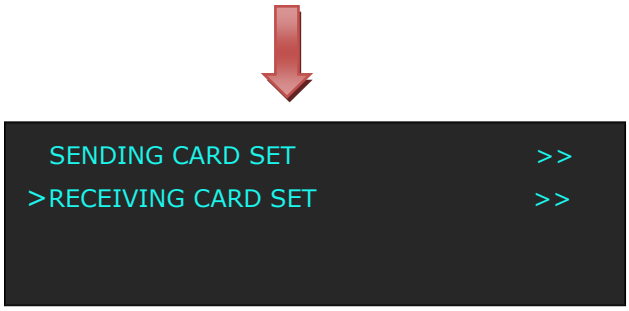
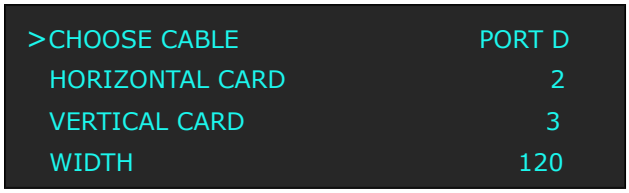
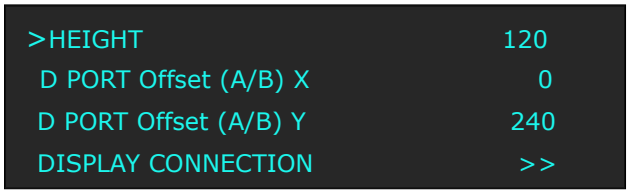


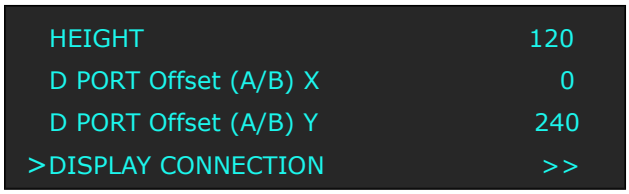

d. Turn the knob, choose <CHOOSE CABLE>, push the knob to confirm. Turn the knob, choose <PORT D>, push the knob to confirm.




e. Turn the knob, and choose <D PORT Offset (A/B) Y>, and set D PORT Offset (A/B) Y as 240 (Note: D PORT Offset (A/B) Y=HORIZONTAL CARD×HEIGHT, before we set horizontal card as 2 and height as 120). Shown as follows:




f. Turn the knob, choose <DISPLAY CONNECTION>, push the knob to confirm, turn the knob again, and choose <CONNECTION MODE>. the OLED module show as follows:



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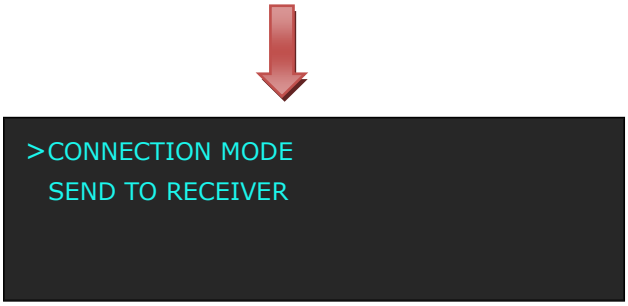
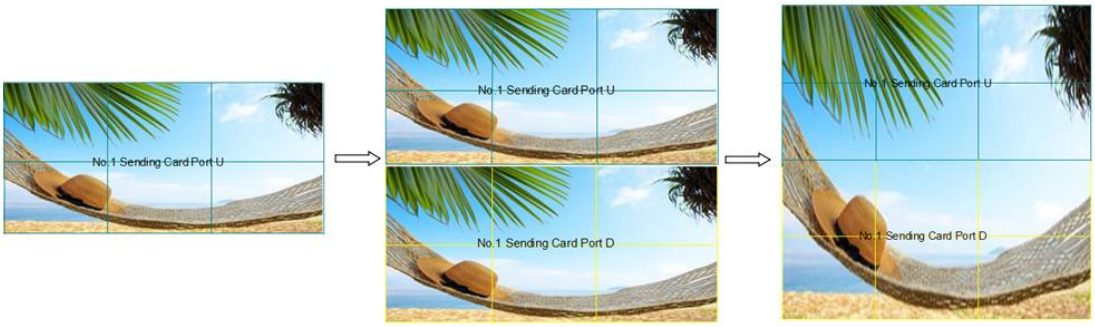



Choose the connection mode, the setting is same as Port U1. Then connection of both the Port D and Port U of One Sending Card to LED Display is finished.

Rendering is as follows:




**3. Connect the Port D and Port U of Two Sending Cards to LED Display**

(1) First, make sure the device is in normal operation. The red power indicator lights when device has power supply and the green signal indicator lights when device has signal input.

(2) Choose the input signal, for example, choose DVI.

(3) Connect four cables to Port U1, Port D1, Port U2 and Port D2 respectively.

(4) Connect Port D1 and Port U1 of No.1 Sending Card to LED display, the settings are same as "**Connect the Port D and Port U of One Sending Card to LED Display**".

(5) Same as above, connect Port D2 and Port U2 of No.2 Sending Card to LED display.

(6) Turn the knob, choose <DISPLAY CONNECTION>, push the knob to confirm, turn the knob again, choose <SENDING CARD NO.>, push the knob to confirm, turn the knob, choose NO.2, push the knob to confirm.



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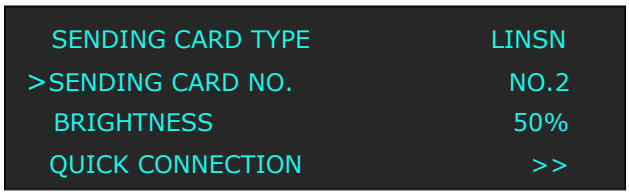
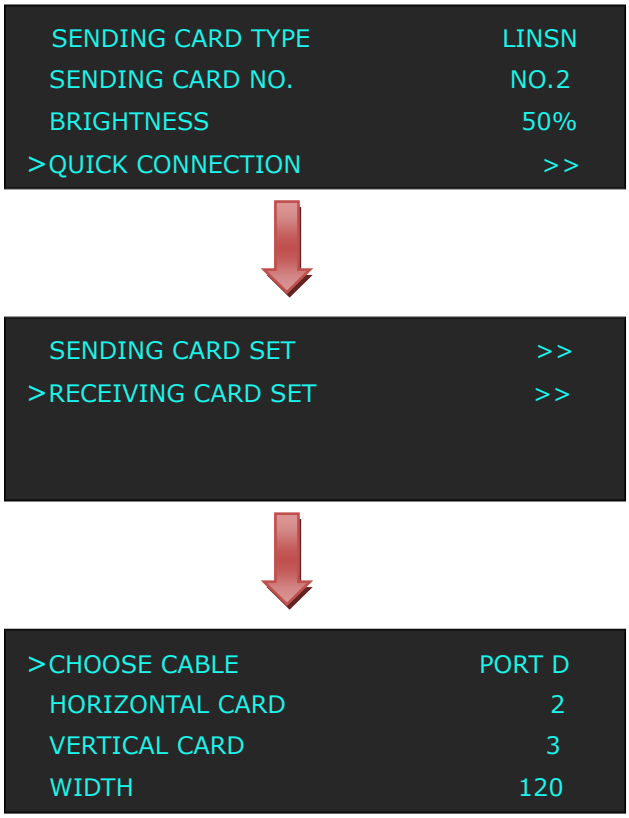
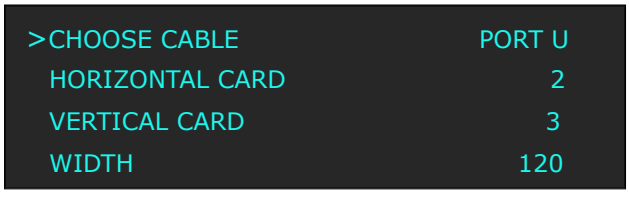



(7) Turn the knob, choose <QUICK CONNECTION>, push the knob to confirm. Turn the knob, choose <RECEIVING CARD SET>, push the knob to confirm, and enter to the to the next level menu, the OLED module show as follows:




(8) Turn the knob, choose <CHOOSE CABLE>, push the knob to confirm. Turn the knob, choose <PORT U>, push the knob to confirm.




(9) Push the [MENU/EFFECT] button to return to the previous menu, turn the knob, and



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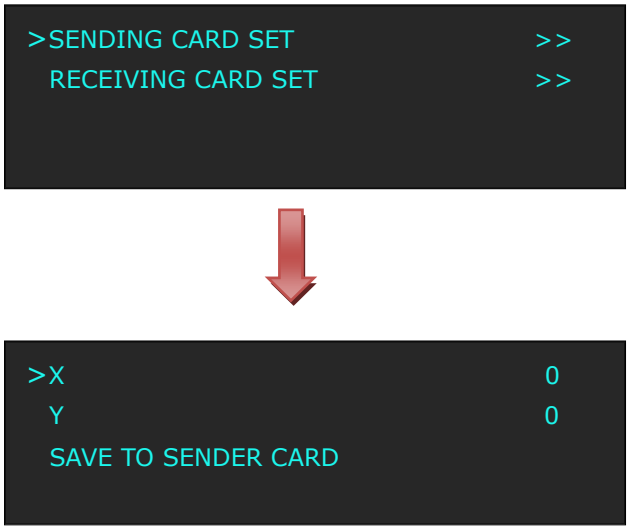
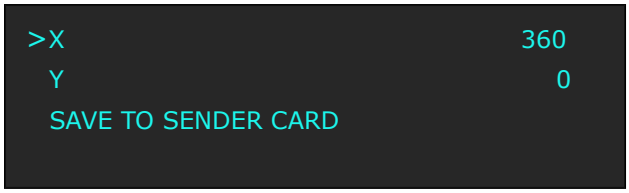
choose <SENDING CARD SET>, push the knob to confirm, and enter to the next level menu:




(10) Turn the knob, choose <X>, and set X as 360 (Note: X=VERTICAL CARD×WIDTH, before we set vertical card as 3 and width as 120). Shown as follows:




(11) Same as above, set X of Port D of No.2 sending card as 360. Then connect the Port D and Port U of Two Sending Cards to LED display is finished.

Rendering is as follows:

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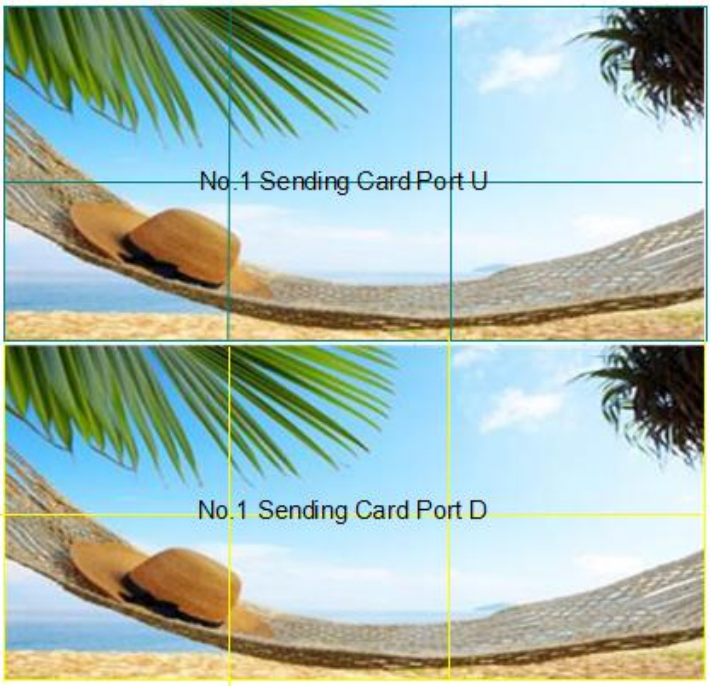


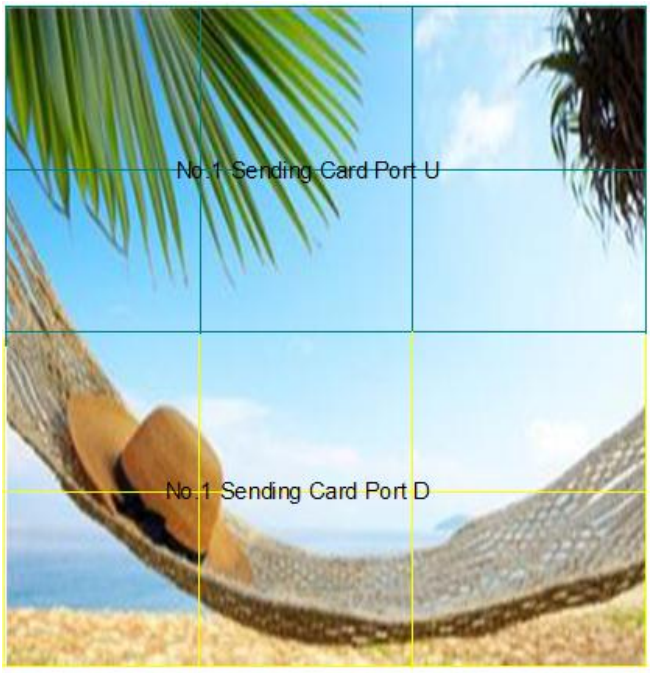




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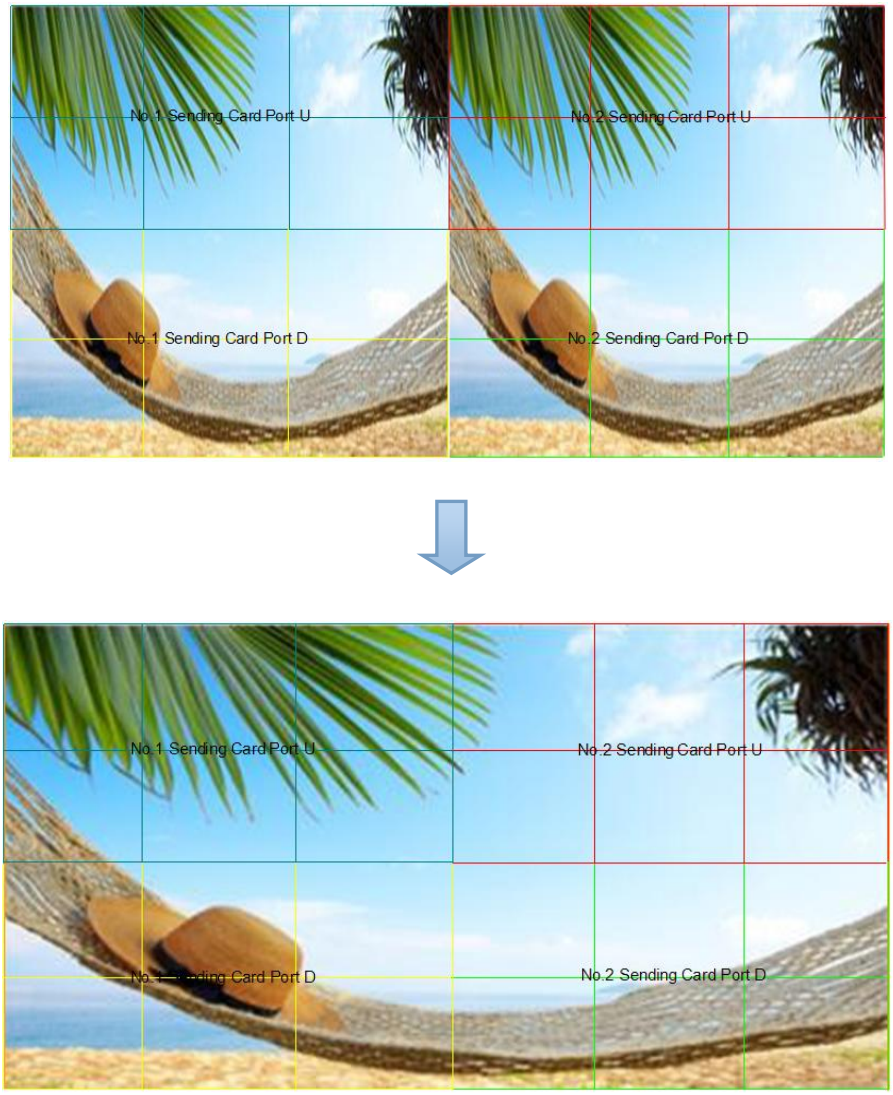




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# How to Use Black Out

Black out description:

Black signal realizes one-key-touch to a black screen.

VSP 9516S black provides effect processing when output, Black switching with fade in fade out effect. The operation is as below:

Push [BLACK/0] button, and the output turns to BLACK with fade in fade out effect.

As shown below:



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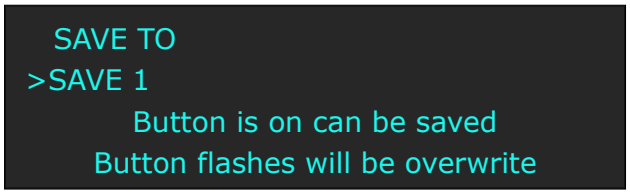
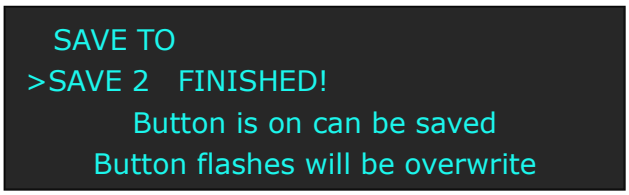
# How to Save the Parameter

1. Push the [SAVE/PIP1] button, the button light is on, and enable the SAVE function.




2. Turn the knob, and choose the position that will save, push the knob to confirm.

3. The figure: 1, 2, 3, 4, 5, 6, 7, 8, 9, 0 means SAVE1~10, user can push any button on to save. For example, save to SAVE 2, push button 2, the OLED panel will show as follows after saving.




User can also push the [MENU/EFFECT] button to enter to the menu items, turn the knob to choose <SAVE SETUP>, and choose <SAVE TO> to save the parameter.

4. Again push the [SAVE/PIP1] button, the button light is off, and disable the SAVE function.



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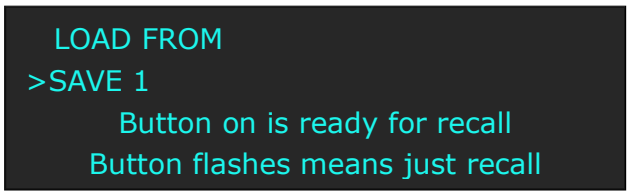
# How to Load the Saved Parameter

1. Push the[LOAD/PIP2] button, the button light is on, and enable the LOAD function.




2. Turn the knob, and choose the position that will load, push the knob to confirm.

   User can also push the [MENU/EFFECT] button to enter to the menu items, turn the knob to choose <SAVE SETUP>, and choose <LOAD FROM> to load the saved parameter.

3. Push the [LOAD/PIP2] button again, the button light if off, and disable the LOAD function.



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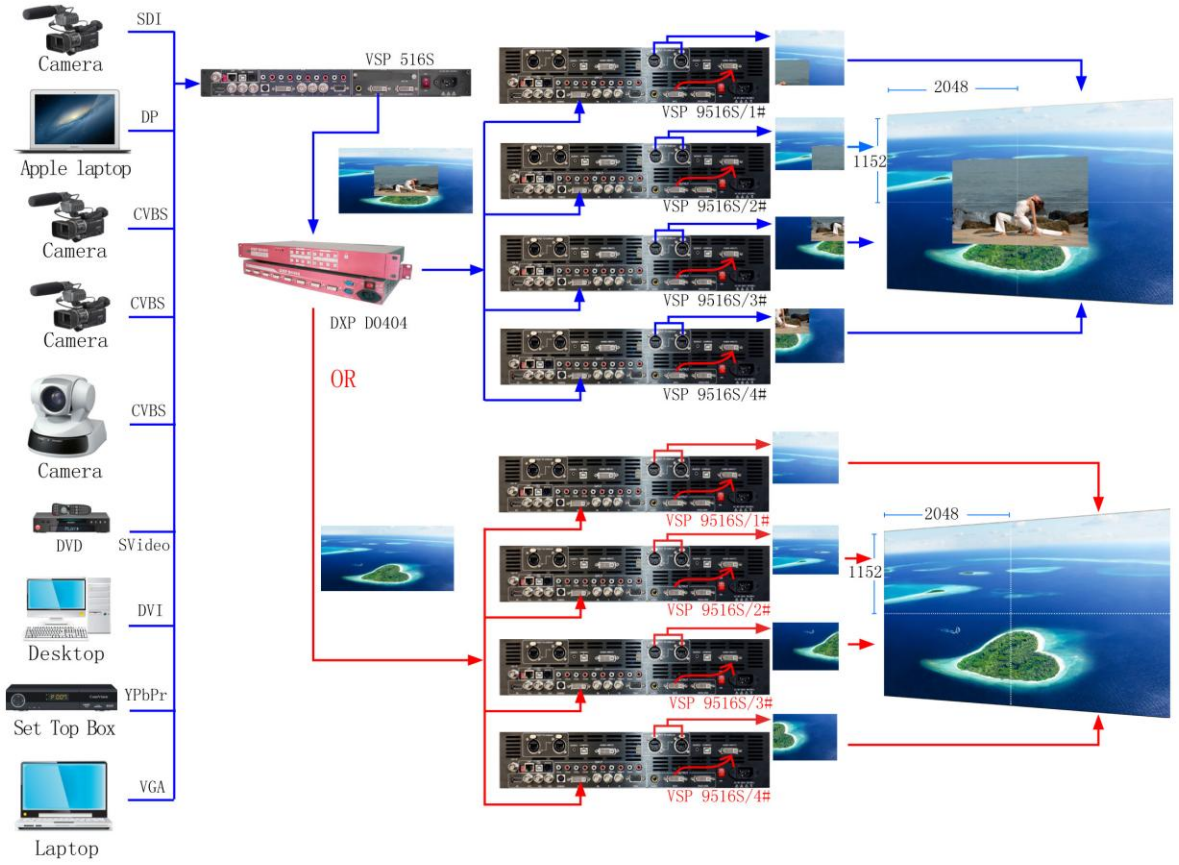
# Product Application

## Multiple Mosaic

Project 1: Input different signals to VSP 516S, and set VSP 516S/1# as PIP mode, and output signal to VSP 9516S/1#, VSP 9516S/2#, VSP 9516S/3# and VSP 9516S/4# for cascade by DVI matrix (DXP D0404). The split modes include “FIELD GLYPH”, “HORIZONTAL 1/4”, “VERTICAL 1/4” and “IRREGULAR”.

Project 2: Input different signals to VSP 516S, and output signal to VSP 9516S/1#, VSP 9516S/2#, VSP 9516S/3# and VSP 9516S/4# for cascade in DVI format by DVI matrix (DXP D0404).



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# Contact Information

## Warranty:

All video products are designed and tested to the highest quality standard and backed by full 3 years parts and labor warranty. Warranties are effective upon delivery date to customer and are non-transferable. RGBlink warranties are only valid to the original purchase/owner. Warranty related repairs include parts and labor, but do not include faults resulting from user negligence, special modification, lighting strikes, abuse(drop/crush), and/or other unusual damages.

The customer shall pay shipping charges when unit is returned for repair.

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