

# VSP 268S Quick Start



- User define resolution
- EDID Management
- Cascade splicing
- Seamless switching with Fade
- Picture in Picture
- Two LED Sender installed
- Audio Video Sync
- Test Pattern Generator
- Wide range Optional input modules

# CONTENT

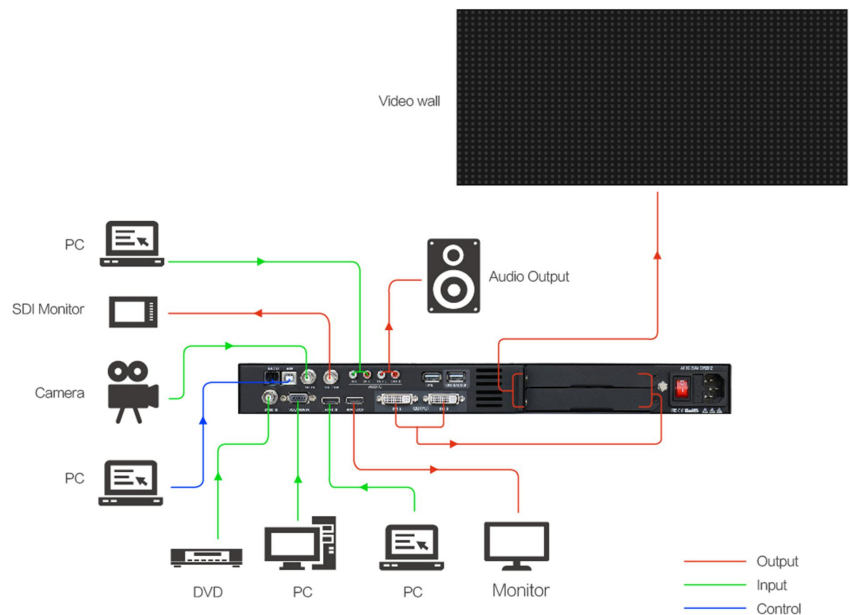
Product Introduction.....	2
Packing Configuration.....	3
Hardware Info.....	4
Front Panel Overview.....	4
Back Panel Overview.....	5
Menu Structure.....	6
Product Operations.....	7
Contents.....	7
Single Picture Switching.....	8
Picture in Picture Settings.....	8
Split Settings.....	9
Select and custom output resolution.....	10
Screen Parameter Setting.....	10
Input Size Setting & Adjust.....	11
VGA Input Auto Adjust.....	11
VGA Key Definition.....	12
Image Scaling Setting.....	12
Image Freeze.....	13
Text Overlay.....	13
Transition Setting.....	14
AUDIO.....	14
IMAGE SET UP.....	15
BLACK OUT.....	15
SAVE.....	16
LOAD SAVED SETTINGS.....	16
Contact Information.....	17

# Product Introduction

**VSP 268S** is an audio and video synchronous switching and high definition digital input video processor, which standard configuration supports CVBS, VGA, HDMI (DVI compatible) input signals and supports a set of audio input and output to realize audio and video synchronization switching, supports one 3G-SDI input and one optional input module, supports up to 2 3G-SDI inputs. **VSP 268S** supports local front panel operation, with built-in broadcast-level motion adaptive deinterlacing technology, color true reduction technology and dynamic range adjustment technology, true seamless switching, anti-aliasing and other functions that provides users with high-quality video display.

## System Connection

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



**VSP 268S** System Connection Diagram

# Packing Configuration

AC Power Cord



USB Cable



DVI to HDMI  
Cable

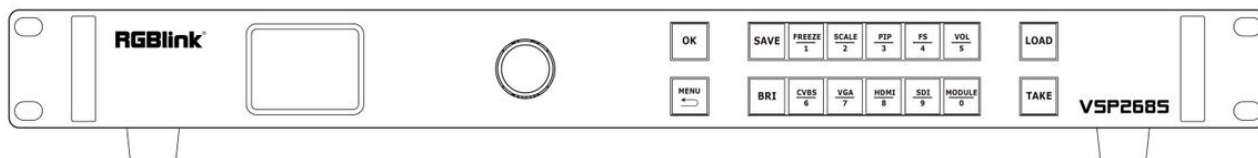


**Note:**

AC Power Cable supplied as standard according to destination market.

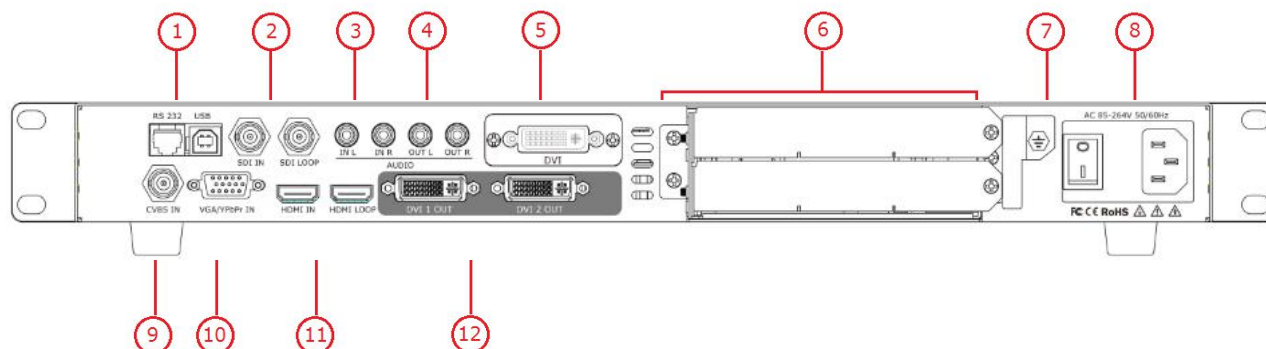
# Hardware Info

## Front Panel Overview



FRONT PANEL			
OLED PANEL	Show operation menu items	Menu	Menu and back button
Knob	Confirm and adjust OLED menu	Brightness	Brightness adjustment custom button
OK	Confirm button	CVBS	CVBS signal source button
Save	Save button	VGA	VGA and YPbPr signal source button
Freeze	Screen freeze button	HDMI	HDMI signal source button
SCALE	Scale button	SDI	SDI signal source button
PIP	Single and double picture switch button	MODULE	DVI input signal source button
FS	Screen parameter setting button	TAKE	Effect mode switch button
VOL	Volume control button	0~9	Number Button ,use for scale and custom resolution setting
LOAD	Load button		

# Back Panel Overview



## INPUT INTERFACE

2	SDI input and SDI Loop out
3	Audio Input Interface
5	DVI Input module
9	CVBS Input BNC port
10	VGA/YP input DB15 port
11	HDMI input HDMI-A port and Loop out

## CONTROL INTERFACE

1	USB Port USB-A
	RS232 interface

## OTHER INTERFACE

6	Sending card installation slot
---	--------------------------------

## POWER CONTROL

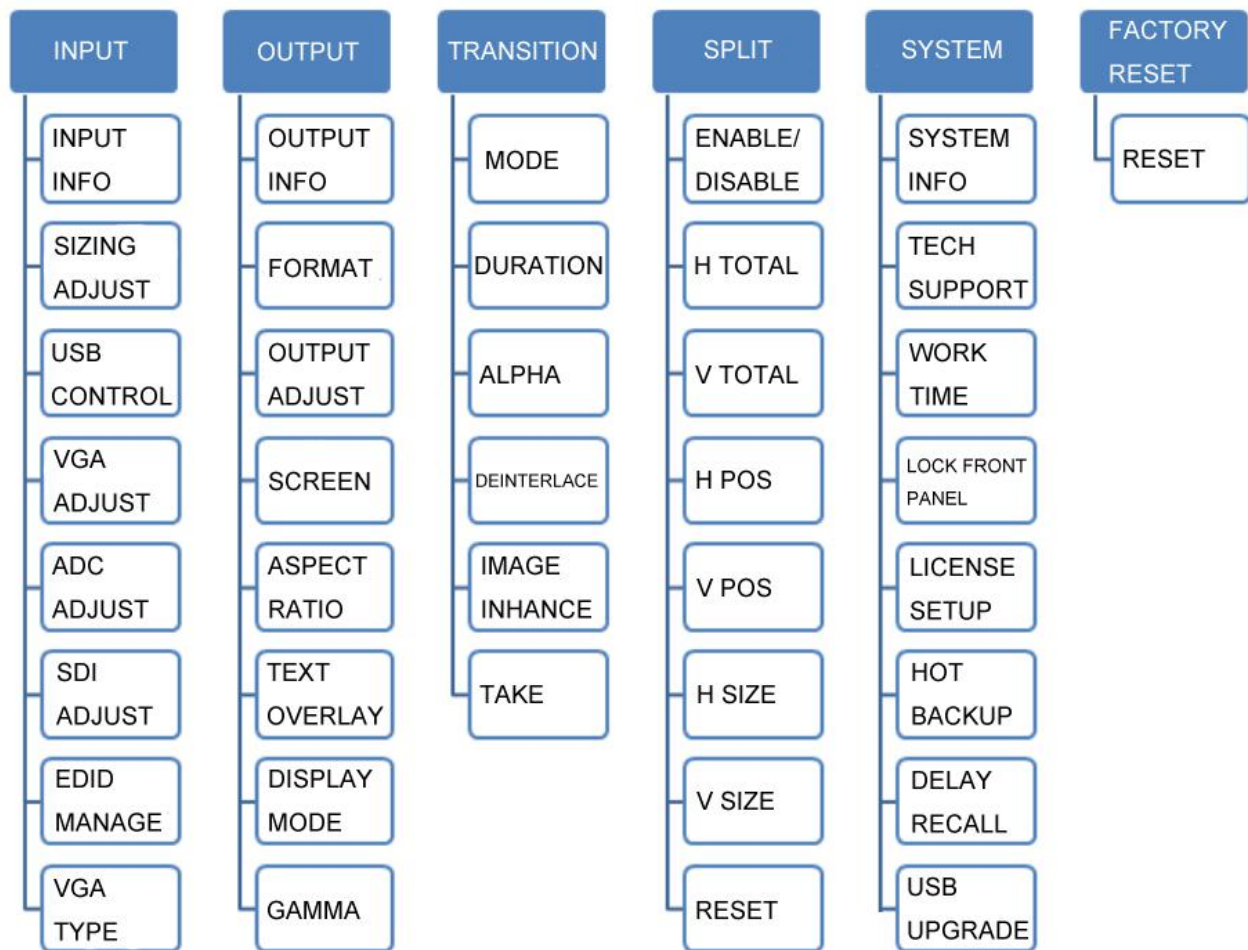
7	Power Switch
8	Power input AC 85-264V 50/60HZ,IEC-3

## OUTPUT INTERFACE

4	Audio output port
12	DVI Output DVI-I Port

# Menu Structure

---



# Product Operations

## Contents

---

- Single Picture Switching
- Picture in Picture Settings
- Split Settings
- Select and custom output resolution
- Screen Parameter Setting
- Input Size Setting & Adjust
- VGA Input Auto Adjust
- VGA Key Definition
- Image Scaling Setting
- Image Freeze
- Text Overlay
- Transition Setting
- AUDIO
- IMAGE SET UP
- BLACK OUT
- SAVE
- LOAD SAVED SETTINGS



## Single Picture Switching

---

When powered on, the system default input is HDMI. If other input source is wanted, for example VGA, just push VGA button. VGA signal will be switched to the output in hard transition, where there will be black screen or frozen picture. If seamless transition is required, activate seamless transition first. Push [TAKE] button for at least 3 seconds to activate seamless transition function. Push VGA button to select VGA signal, then push [TAKE] button, VGA signal will be transited to the screen in seamless cut or other transition effect. [TAKE] button is defaulted with 1 second fade transition effect. If you want to change the duration of the transition effect, push [MENU] button, select <Transition> and change the time of duration.

When use [TAKE] button to switch signals, on the LCD display users will be able to see the format and resolution of the signal to be switched before switching. This will guarantee a safe and accurate operation.

## Picture in Picture Settings

---

### Activate PIP:

Push [PIP] button, button light on, PIP activated. Otherwise, PIP settings not available. On the LCD display it will show the menu for setting PIP.

### PIP layout setting:

Select one layout from the 7 layouts built in, push the knob to confirm. 3 examples of PIP layouts as below:

L+T



L+R (PBP)



T+B



### Swap image settings:

Select “ON” or “OFF”, to enable the swap of the two images of PIP.

#### **Alpha settings:**

The alpha parameter of image B can be set from 0 to 16.

#### **Select setting:**

To select “IMAGE A” or “IMAGE B” for settings.

## **Split Settings**

---

Multiple **VSP 268S** can be cascaded for seamless splitting. When split, we suggest use distributor to distribute the signal to the multiple **VSP 268S**. Users may also use the on board HDMI LOOP for cascade splitting.

Follow below operations of cascade split to access quick splitting:

Push [MENU] button, rotate the knob, select <SPLIT> to split evenly or unevenly.

Menu as below:

ENABLE/DISABLE: ON or OFF split function, system default as OFF, turn it ON to enable split settings.

H TOTAL: to set the total horizontal pixels of the LED screen

V TOTAL: to set the total vertical pixels of the LED screen

H POS: select it and press the number buttons to input the starting horizontal position.

V POS: select it and press the number buttons to input the starting vertical position.

H SIZE: to set the horizontal size of the part responsible.

V SIZE: to set the vertical size of the part responsible.

RESET: When done wrong, use RESET to remove the settings.

For even split, simply set the H SIZE and V SIZE of each **VSP 268S** to be same. Then set the H POS and V POS of each **VSP 268S** accordingly. For uneven split, we have to set the H SIZE and V SIZE of each **VSP 268S** individually.

After settings, we can save it to finish the split setting.

# Select and custom output resolution

---

## Select the output resolution:

Push [MENU] button to enter menu, select <OUTPUT>, push the knob to enter. Rotate the knob and select <OUTPUT FORMAT>, push the knob to enter. Rotate the knob and select <STANDARD>, push the knob to enter. Rotate the knob to select the desired resolution.

## Custom output resolution:

Push [MENU] button to enter menu, select <OUTPUT>, push the knob to enter. Rotate the knob and select <OUTPUT FORMAT>, push the knob to enter. Rotate the knob and select <CUSTOMIZE>, push the knob to enter;

Firstly set the custom width resolution, input the value by pushing the number buttons, push the knob to confirm.

Secondly set the custom height resolution, input the value by pushing the number buttons, push the knob to confirm.

Lastly set the custom frame rate, input the value by pushing the number buttons, push the knob to confirm.

After setting the values, the device will start to configure accordingly, taking 5~10 seconds to complete.

# Screen Parameter Setting

---

The screen parameter setting is for the size of LED display applying for the single image model for example, the LED display resolution is 1408 x 832 pixel pitch, first, we select a resolution that close to 1408 x 832 or a higher resolution to make sure the image will be showed in the LED, so, we select the 1440 x 900 which is the most close to the LED resolution.

Touch [MENU] button, LCD shows the main menu, rotate the knob, select<Output> and rotate the knob to confirm, touch the knob, select < Screen Parameter>, press the knob to confirm, enter the screen parameter menu, you will see the size setup of LED display as follows:

**H Size:** Use the knob and number key to set up parameter 1408;

**V Size:** Use the knob and number key to set up parameter 832;

**H Position:** initial parameter is 0, no setting without image movement;

**V Position:** initial parameter is 0, no setting without image movement;

**Mode:** Select <Screen Parameter Size > or <FS Size>;

**Reset Device:** Reset to default if the operation is not appropriate.

**Note:** User can set the screen parameter via <Full Screen > button. Press the key in first time, the key lights up and it shows <Screen Parameter Size >, Press again, the key lights off and it shows <Full Screen Size>.

## Input Size Setting & Adjust

---

User can adjust and set the input image based on requirement in order to realize the best effect.

Touch [MENU] button, LCD displays the main menu, rotate the knob, select <Input>, touch the knob and confirm, rotate the knob, select <Sizing Adjust>, touch the knob and confirm, user can use knob and number key to set as follows:

**H Size:** Set the width of image for scaling;

**V Size:** Set the height of image for scaling;

**H Position:** Set the image horizontal position;

**V Position:** Set the image vertical position;

**Reset:** Reset to default if the operation is not appropriate;

**Top Crop:** Crop the top part of image;

**Bottom Crop:** Crop the bottom part of image;

**Left Crop:** Crop the left part of image;

**Right Crop:** Crop the right part of image;

**Crop Reset:** Reset to default if the operation is not appropriate.

## VGA Input Auto Adjust

---

Since VGA signal is off-standard, it will cause image offset or not in full screen when input VGA video, user should adjust the VGA video as follows:

1. Touch [MENU], LCD shows the menu, rotate the knob, select <Input>, touch the knob and confirm.

11



Address: S601-607, S504 Weiye Building Torch Hi-Tech Industrial Development Zone Xiamen, Fujian Province, P. R. C

Tel: 00865925771197

Fax: 00865925788216

Email: sales@rgblink.com

http://www.rgblink.cn

2. Rotate the knob, select <VGA Adjust> touch the knob and confirm.
3. Rotate the knob, select <Auto Adjust>, touch the knob and confirm.

When the <Auto Adjust> is selected, it will adjust the horizontal and vertical position, clock and aspect automatically to realize image is full screen.

**Note:** User can adjust for couples of times if it is not succeeded at a time, the system will save the parameters automatically when the setting is done.

## VGA Key Definition

---

VGA is compatible with YPbPr format which input can be customized to either of them:

1. Touch [MENU], LCD shows the menu, rotate the knob, select <Input>, touch the knob and confirm;
2. Rotate the knob, select <VGA Key Definition>, touch the knob, select <VGA> or <YPbPr>, re-rotate the knob and confirm;
3. If YPbPr is selected, user need to connect the VGA to YPbPr converter externally to input the signal.

## Image Scaling Setting

---

Output image scaling shortcut key: Touch <Scaling> button, enter the menu, user can use knob or number key to set as follows:

**H Size:** Set the image width;

**V Size:** Set the image height;

**H Position:** Set the image horizontal position;

**V Position:** Set the image Vertical position;

**Reset:** Reset to default if the operation is not appropriate.

# Image Freeze

---

Touch < Freeze> button in front panel of **VSP 268S**, the LCD shows <Image Freeze> and the light is on, the output image is frozen, Re-touch <Freeze> button, the light is off, the freeze feature is cancelled and video image restored, the LCD shows <Video Image>.

# Text Overlay

---

The OSD feature is to add subtitle in the output image which is widely used in live broadcast, concert, live talk show and ad.

First, before setting OSD, user should confirm the subtitle input channel, for example, VGA is the input channel for subtitle, make sure to add the OSD in designated channel like DVI in advance, the setting is as follows:

1. Touch VGA button to check the input signal, the LCD shows the VGA signal in normal;
2. Re-touch DVI button to check the input signal, the LCD shows the DVI signal in normal;
3. Open PIP, make sure VGA is the sub-image, DVI is the main image, if it is on the contrary. select “Swap Window” under the PIP menu to swap the image;
4. Select “B image” from the “Selection” under <PIP> menu, touch “Scaling” button to set the size and position, move the VGA image to the designated position;

When the VGA image position and size setting is done, make sure the VGA image is over DVI and keeps in normal, if VGA input shows black lines, user can use “Crop” feature under the “Input” menu to adjust the black lines;

5. Touch [Menu], rotate the knob, select <Output> and rotate knob to confirm;

Rotate the knob, select <Text Overlay>, touch the knob to confirm, enter the text overlay menu, rotate the knob, select <Text Overlay>, touch the knob to confirm, rotate the knob, select “On”, touch the knob and open the DSK feature;

Rotate the knob, select <Pre-set Mode>, touch knob and enter to the menu, select VGA subtitle input way, for example, VGA subtitle is white on black, select “White on black 1” or “Black on White 2”(Note:the DSK is only for single color subtitle);

6. Touch [Save] button to save all the settings, user can load the setting next time instead of re-set.

## Transition Setting

---

Touch [Menu] and enter to the menu, rotate the knob, select <Effect Switch> and enter to the menu, now, it is the effect setting and user can set the switch effect mode as follows:

**MODE:** The transition modes includes cut, fade in and fade out, POP L+T, PUSH L+T, POP R+T, PUSH R+T, POP L+B, PUSH L+B, POP R+B, PUSH R+B, POP CENT, PUSH CENT, POP LEFT, PUSH LEFT, POP RIGHT, PUSH RIGHT, POP TOP, PUSH TOP, POP BOTTOM and PUSH BOTTOM.

**DURATION:** Rotate the knob to set the switching duration, touch the knob to select the switching duration with range from 0 to 1 second.

**ALPHA:** It is for setting the transparency of the image display with the range from 0 to 16.

**DEINTERLACE:** User can select “On” or “Off”.

**Turn on the deinterlace,** the input signal will be deinterlaced and the switch effect will not be affected.

**Turn off the Deinterlace,** the input signal will not be deinterlaced.

**IMAGE ENHANCE:** It is for sharpness of edge of image, color restore and image scale, user can choose “On” or “Off”.

**TALE:** Select “On” or “Off”, or press <Switch> button 3s to open the switch feature, the signal will switch to the output.

## AUDIO

---

Press [AUDIO] for audio set up.

**MUTE:** ON or OFF.

**VOLUME:** 0-100.

**AUDIO IN:** To select audio source from [IMAGE A] or [IMAGE B].

**HDMI:** When use HDMI input, can select [INTERNAL] or [EXTERNAL] audio source.

## IMAGE SET UP

---

Push [BRI] button for image set up. Brightness, contrast, saturation, sharpness, red, green, blue are allowed to change independently.

**BRIGHTNESS:**0-100.

**CONTRAST:**0-100.

**SATURATION:**0-100.

**SHARPNESS:**0-100.

**RED:**0-100

**GREEN:**0-100

**BLUE:**0-100

**RESET:**Reset all parameters to default.

## BLACK OUT

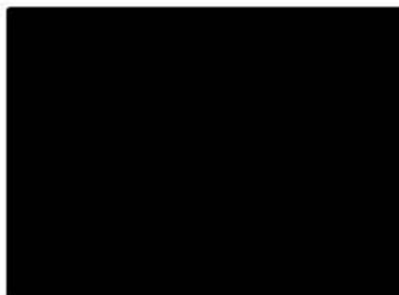
---

Black out descriptions:

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

**VSP 268S** provides black effect processing for output with cut black effect. Operation is as below:

1.Push [MENU] button, turn the knob, select [OUTPUT], push the knob, select [DISPLAY MODE], select [MODE], select [BLACK OUT], effect is as below:

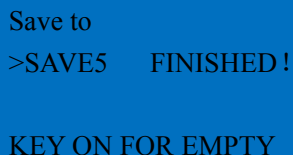




## SAVE

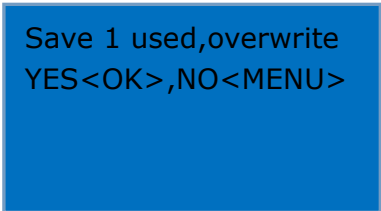
---

Push the [SAVE/1] button, the button light is on, and enable the SAVE function. The number button 1, 2, 3, 4, 5, 6, 7, 8, 9, 0 means SAVE1-10, push any button on to save. For example, push number button 2 and save to SAVE 5, the OLED panel will show as follows after saving. If the button blinks, means there is already a save here.



Save to  
>SAVE5 FINISHED!  
KEY ON FOR EMPTY

If you would like to save in the flashing button, your previous save will be overwritten. For example, if button 1 blinks, push button 1 again, the screen will show as below:



Save 1 used,overwrite  
YES<OK>,NO<MENU>

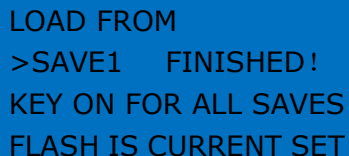
Push knob to confirm, push[MENU] to cancel; if confirm, screen will show as SAVE FINISHED; if cancel, screen will go back to menu.

## LOAD SAVED SETTINGS

---

Push [LOAD] to recall saved banks. The number button 1, 2, 3, 4, 5, 6, 7, 8, 9, 0 means SAVE1-10, if the button is on, means there's saved data to recall, if the button flashes, means this bank is currently using, if the button is off, mean no data saved here.

LCD screen is as below:



LOAD FROM  
>SAVE1 FINISHED!  
KEY ON FOR ALL SAVES  
FLASH IS CURRENT SET

Push the button with light to recall save; press [MENU] to cancel load, when the light is off, means LOAD has been cancelled.

# 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.

**Headquarter:** S601~607, S504 Weiye Building Torch Hi-Tech Industrial Development Zone  
Xiamen, Fujian Province, P.R.C

- **Tel:** +86-592-5771197
- **Fax:** +86-592-5788216
- **Customer Hotline:** 4008-592-315
- **Web:**
  - ~ <http://www.rgblink.com>
  - ~ <http://www.rgblink.cn>
- **E-mail:** [support@rgblink.com](mailto:support@rgblink.com)