RGBlink® Video {processing} for any scale

Q4L

Quick Start



- Modular design with flexible input & output combinations
- Custom output resolutions
- Support for up to 8 layers
- Independent display management control
- Custom EDID
- Control via XPOSE 2.0 or RGBlink OpenAPI

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Product Introduction

Q4L is multi-layer videowall splicing processor, standard with DUAL DVI, HDMI 1.3 input modules, optional modules selecting from SDI, USB, HDBaseT modules,supporting DVI (sync) output module and up to 8 layers. The outstanding feature of Q4L is the built-in splicing and presentation mode patterns which help users to make quick splitting and presentation. Besides control on board, it also support for control via RGBlink XPOSE 2.0.

System Connection Diagram

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



Q4L SYSTEM CONNECTION DIAGRAM

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Packing Configuration

AC Power Cord



DVI to HDMI Cable



CAT5 Cable



DB9 to RJ11 Cable



Anti-Static Bag

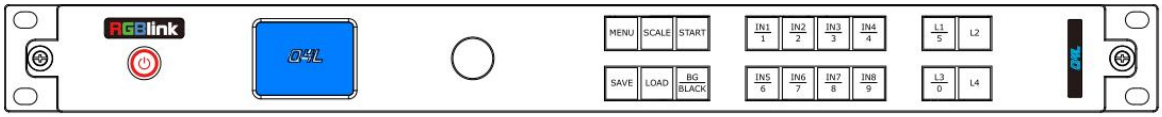
Note:

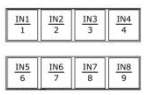
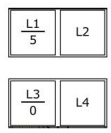
AC Power Cable supplied as standard according to destination market.

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Hardware Orientation

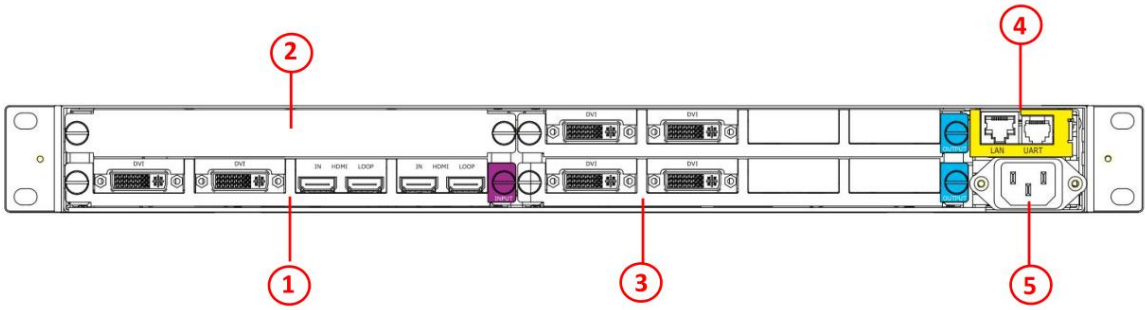
Front Panel



Button Instruction			
	MENU and EXIT		SCALE
	START and LAYOUT		SAVE SCENE
	LOAD SCENE		Background Layer selection and BALCK out
	IN1-IN8 Input selection and 1-4,6-9 digital buttons		Layer 1-4 and 5, 0 digital button
	Sleep Button	LCD Panel	Displays current status of the product, and for feature selections, provides interactive choices in conjunction with buttons on the front panel.
	Confirm by pushing, selecting items by rotating		

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Rear Panel

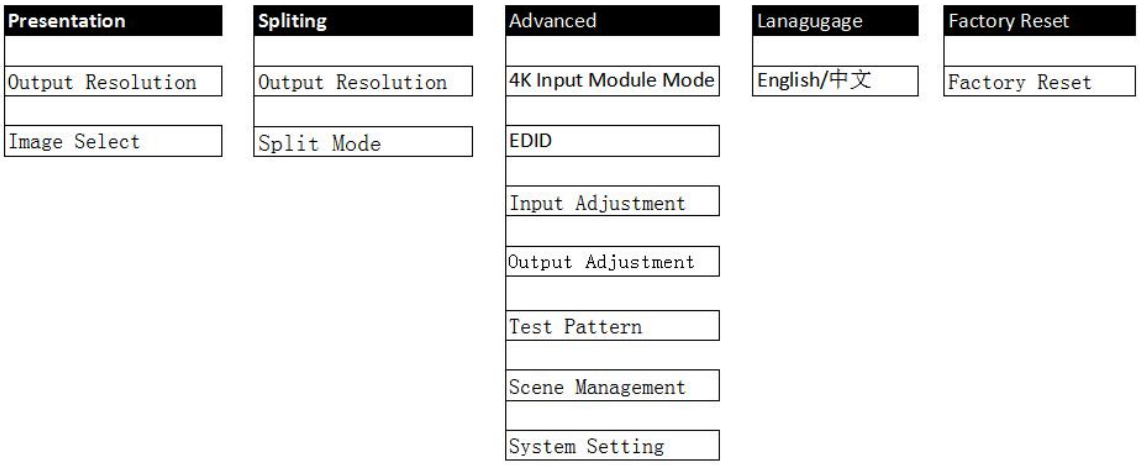


Input Connectors	
1	Standard: 4×HDMI(IN/Loop),resolutions up to 1920*1080@60,support EDID 2× DVI-I,resolution up to 1920*1080@60,support EDID
2	Optional slots

Output Connectors	
3	4 DVI outputs as standard
Communication	
4	LAN RJ45 / RS232 RJ11 Use for system upgrade and remote control via APP
Power	
5	Power switch
	Power connector AC 85-264V 50/60HZIEC-3

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Menu Tree

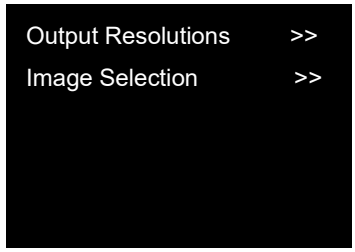


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Use Your Product

Presentation

After the device is boot up, push MENU, rotate the knob and select <Presentation>



Output Resolution

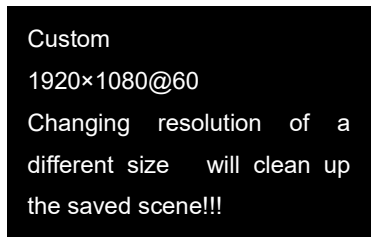
Output Resolution: Choose Standard or Custom resolution



Standard: rotate the knob to select standard resolution.



Custom:use 1~9 numbers to key in the width, height and frame rate.



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Image Select



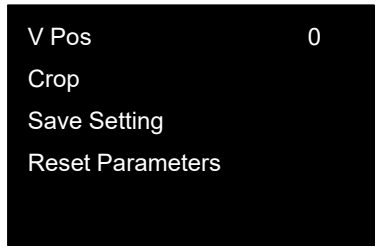
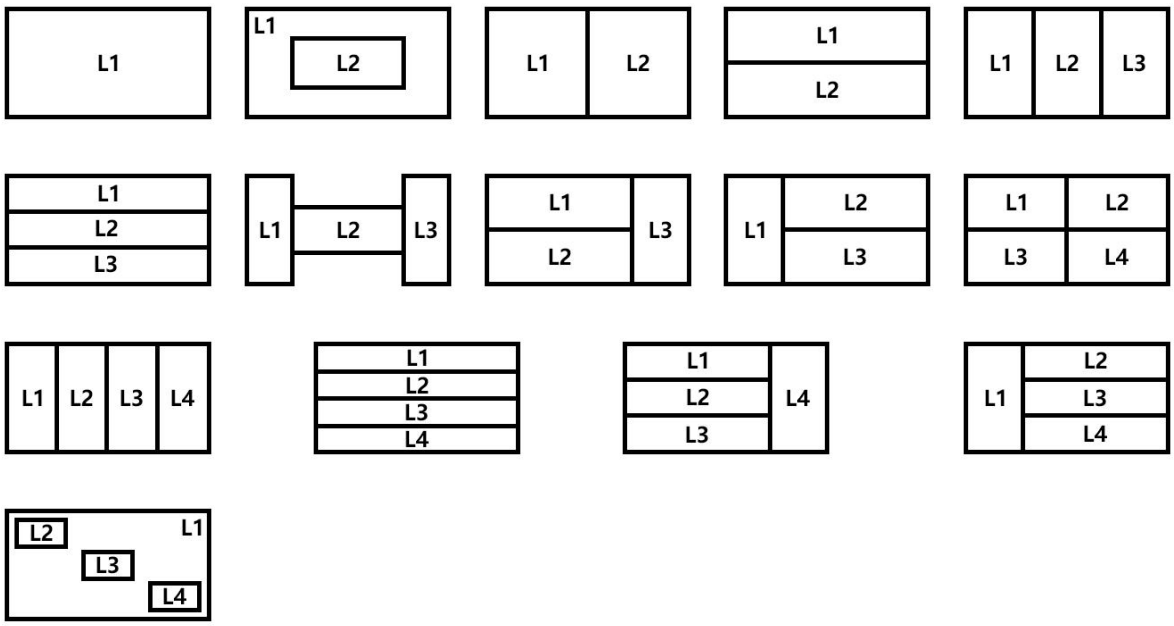


Image Layout： Select the image layout for presentation mode. There are 15 layout patterns built-in as follows：



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Split

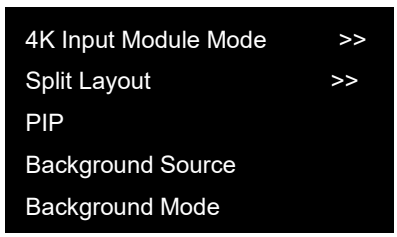
Push MENU, rotate the knob and select <Split>

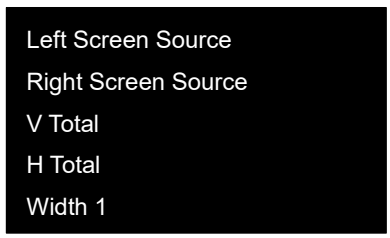


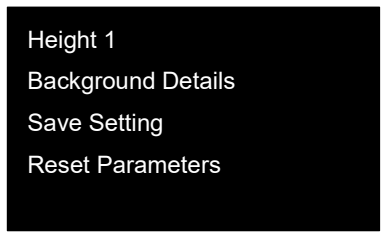
Output Resolution

The same operation as shown in last part.

Split Mode

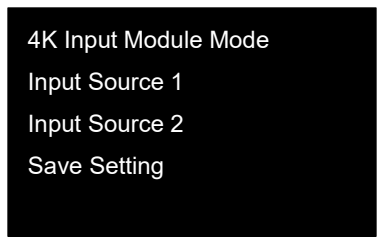






4K Input Module Mode

The available modes for 4K input module: 2K×1K, 4K×1K, 4K×2K
The chosen mode will be valid on all ports.



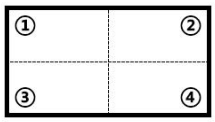
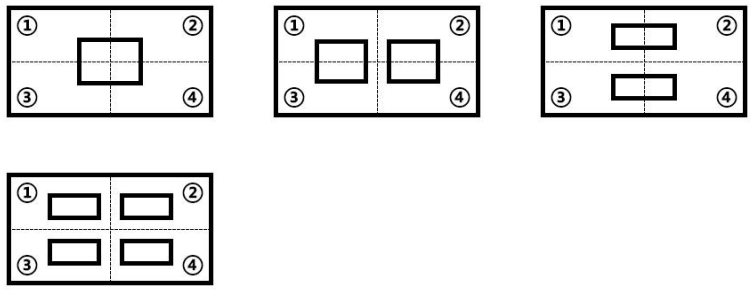
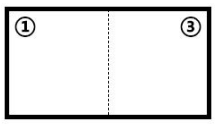
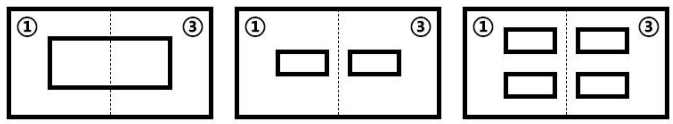
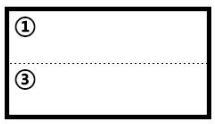
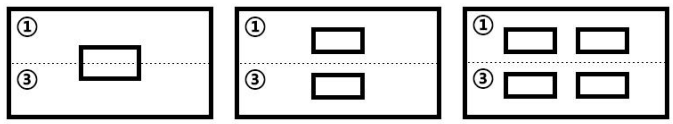
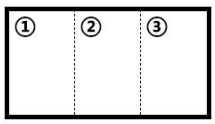
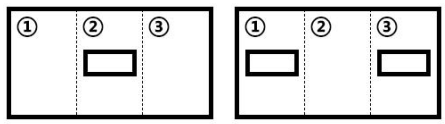
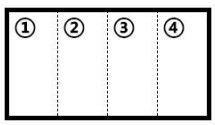
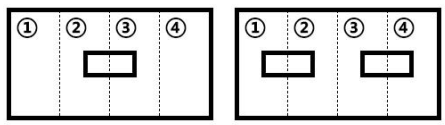
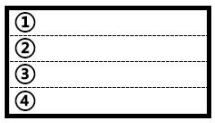
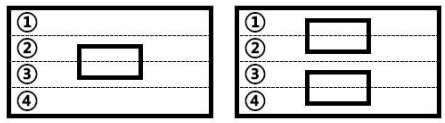
Input Source 1：Select one from DUAL-DVI,HDMI1.4,HDMI2.0,DP1.2 in 4K×2K
Input Source 2：Select two from DUAL-DVI,HDMI1.4,HDMI2.0,DP1.2 in 4K×1K

Save Setting to confirm.

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Split Layout

There are 6 background split mode available and each basic split mode comes with useful multi-picture layout.

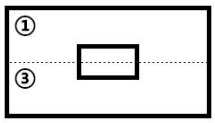
Split Mode	Background	Multi-Picture Layout
Cross		
H 1/2		
V 1/2		
H 1/3		
H 1/4		
V 1/4		

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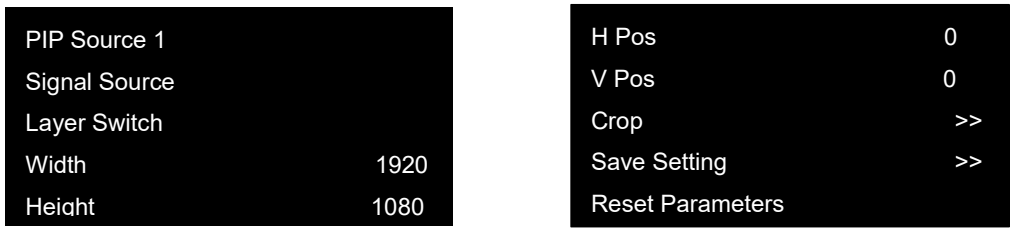
PIP

After the split mode is selected, PIP shall be set.

eg. Select split mode V 1/2 with 1 PIP layout



PIP Layer Menu



PIP Source

Select source for each PIP layer. If the chosen layout contains more than 1 PIP, PIP Source 2 shall be set.

Width, Height, H Pos, V Pos

Set size and position for PIP.

Save Setting

Save Setting to confirm above.

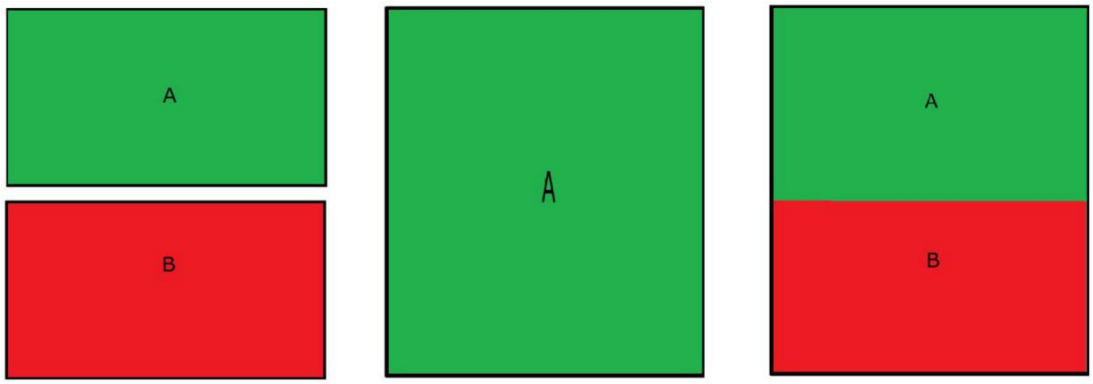
Background Source

Slelect the source for background.

Background Mode

Under split mode V 1/2, there is subclassification V 2 In/2 Out based on numbers of source.

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V 1/2 V 2 In/2 Out

Left/Right Screen Source

Select input source

H Total, V total

Set total height and total width for the splicing output display.

Height 1

Set the height of the first output display.

Q4L shows the parameters required based on the Split mode, for example, if the split mode is V 1/3. the Width 1 (width of first output display)and Width 2 (width of second output display) shall be set; if the split mode is Cross, Height 1 and Width 1 will be shown to set.

Background Details

To Scale and Crop the background.



Save Setting

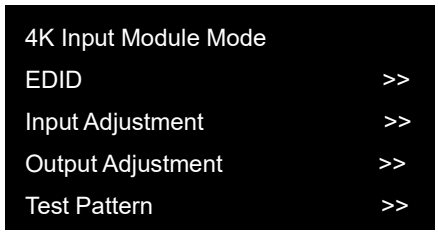
Save Setting to confirm above.

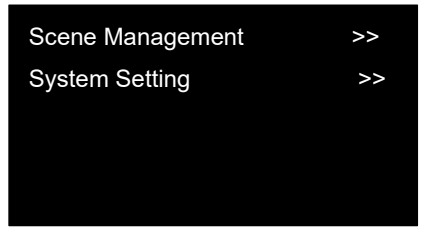
Reset Parameters

Cancel above setting

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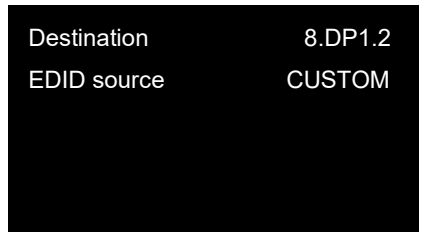
Advanced





EDID

Destination：1~8 Input Port
EDID Source：RGBDVI，RGBHDMI
CUSTOM or RESET
Choose CUSTOM to custom EDID
Choose RESET to reset EDID，



Input Adjustment



Image Quality
Input Signal 1-4: Adjust brightness, contrast and color saturation, sharpness and temperature of each input source port.





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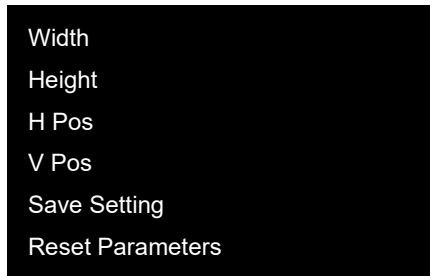
Input 4K signal:





Scale

Scale: adjust each input source by scale.
Crop: adjust each input source by crop.



USB Control





USB Module: Select inputs
USB Port: PORT A,PORT B
Play Types: Video or Image

Output Adjustment



Output Type：

Output Connectors: 1/2/3/4 DVI Module（DVI/HDMI）

Color Gamut: Video or Image

Output Exchange：

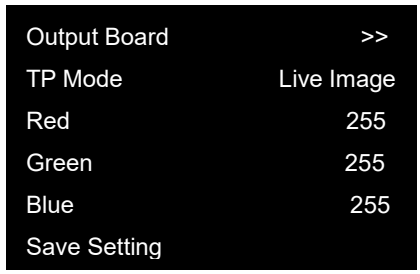


Test Pattern

Output Board:

Board 1： 1-2 output port

Board 2 ： 3-4 output port



TP Mode: Live Image, Color Strip, Pure Color

Green, Red and Blue value range: 0~255

Scene Management

Fade In Fade Out time： 0.1S~10.0S

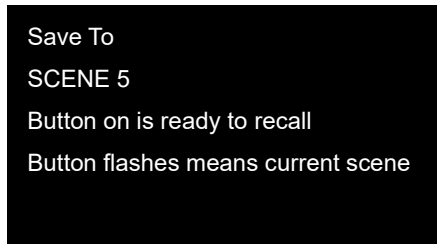
Set fade in fade out time for scene switching



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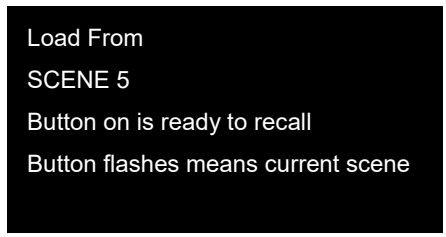
Save To

Save the scene to SCENE 1-10

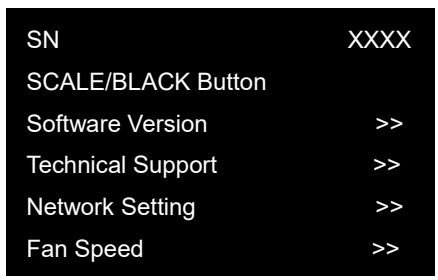


Load From

Load saved scene from SCENE 1-10.



System Setting



SN: to check serial number of the device.

SCALE/BLACK Button: Choose the exact function for this composite button. If choose SCALE, pushing this button will open up SCALE menu.

If choose BLACK, pushing this button will black out selected layer.

Software Version: check comm board version, input EXT, 4K input module, 4K FPGA, 4K Video, output ext module 1and output ext module 2,button module.

Technical Support: contact information of sales and after sales service

Network setting: Mac address and DHCP ON/OFF, IP Address, Subnet Mask, Gateway setting take effect after the device is rebooted.

Fan Speed: Adjust the speed via button.

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Language

To switch language here. English or Chinese available.

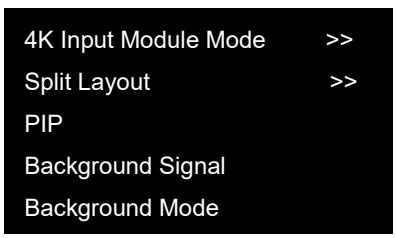
Factory Reset

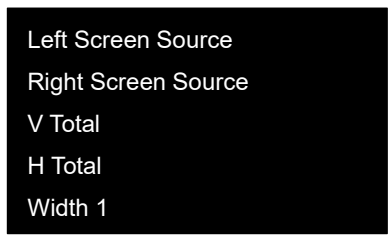
If Factory Reset is selected, the interface will show warning, confirm by pushing knob, cancel by push any other key.

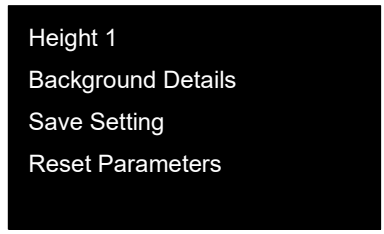
Button

START

Short cut buttons to enter Split Mode menu when the device is used for the first time, If not, it will enter Presentation Mode.







BG

On or Off background
When layout is selected, push BG button to select input source.

L1/L2/L3/L4

Layer selection after background is set. When the layer is select the button will flash. If there the layout chosen previously is without PIP or less PIP than 4, users can push the unlighted Layer button to open up more PIP.

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IN1/IN2/IN3/IN4/IN5/IN6/IN7/IN8

Select input source 1~8, when the source is selected, the button will flash.

SAVE

Short cut button to SAVE scene to SECEN 1-10 by pushing number buttons

LOAD

Short cut button to Load saved scene from SECEN 1-10 by pushing number buttons.

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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.

Headquarter: Room 601A, No. 37-3 Banshang community, Building 3, Xinke Plaza, Torch Hi-Tech Industrial Development Zone, Xiamen, China

- **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