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 supports 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
Packing Configuration

Note:
AC Power Cable supplied as standard according to destination market.
# Hardware Orientation

## Front Panel

![Front Panel Diagram]

### Button Instruction

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

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Rear Panel

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Connectors</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 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 50/60Hz IEC-3 |
### Menu Tree

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Splitting</th>
<th>Advanced</th>
<th>Language</th>
<th>Factory Reset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Resolution</td>
<td>Output Resolution</td>
<td>4K Input Module Mode</td>
<td>English/中文</td>
<td>Factory Reset</td>
</tr>
<tr>
<td>Image Select</td>
<td>Split Mode</td>
<td>EDID</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Input Adjustment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Output Adjustment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test Pattern</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Scene Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>System Setting</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 >>
Custom >>

Standard: rotate the knob to select standard resolution.

Output Resolution
1920×1080@60
Changing resolution of a different size will clean up the saved scene!!!

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

Custom
1920×1080@60
Changing resolution of a different size will clean up the saved scene!!!
**Image Select**

<table>
<thead>
<tr>
<th>Image Layout</th>
<th>V Pos</th>
<th>Crop</th>
<th>Save Setting</th>
<th>Reset Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1/L2/L3/L4</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width: 1920</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height: 1080</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Pos: 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

![Diagram of 15 image layout patterns]

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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
Split Layout
PIP
Background Source
Background Mode

Left Screen Source
Right Screen Source
V Total
H Total
Width 1
Height 1
Background Details
Save Setting
Reset Parameters

4K Input Module Mode
Input Source 1
Input Source 2
Save Setting

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.
**Split Layout**

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

<table>
<thead>
<tr>
<th>Split Mode</th>
<th>Background</th>
<th>Multi-Picture Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cross</strong></td>
<td><img src="image" alt="Cross Background" /></td>
<td><img src="image" alt="Cross Multi-Picture Layout" /></td>
</tr>
<tr>
<td><strong>H 1/2</strong></td>
<td><img src="image" alt="H 1/2 Background" /></td>
<td><img src="image" alt="H 1/2 Multi-Picture Layout" /></td>
</tr>
<tr>
<td><strong>V 1/2</strong></td>
<td><img src="image" alt="V 1/2 Background" /></td>
<td><img src="image" alt="V 1/2 Multi-Picture Layout" /></td>
</tr>
<tr>
<td><strong>H 1/3</strong></td>
<td><img src="image" alt="H 1/3 Background" /></td>
<td><img src="image" alt="H 1/3 Multi-Picture Layout" /></td>
</tr>
<tr>
<td><strong>H 1/4</strong></td>
<td><img src="image" alt="H 1/4 Background" /></td>
<td><img src="image" alt="H 1/4 Multi-Picture Layout" /></td>
</tr>
<tr>
<td><strong>V 1/4</strong></td>
<td><img src="image" alt="V 1/4 Background" /></td>
<td><img src="image" alt="V 1/4 Multi-Picture Layout" /></td>
</tr>
</tbody>
</table>
PIP

After the split mode is selected, PIP shall be set.
eg. Select split mode V 1/2 with 1 PIP layout

![Diagram of PIP layout]

PIP Layer Menu

<table>
<thead>
<tr>
<th>PIP Source 1</th>
<th>H Pos</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Source</td>
<td>V Pos</td>
<td>0</td>
</tr>
<tr>
<td>Layer Switch</td>
<td>Crop</td>
<td>&gt;&gt;</td>
</tr>
<tr>
<td>Width</td>
<td>Save Setting</td>
<td>&gt;&gt;</td>
</tr>
<tr>
<td>Height</td>
<td>Reset Parameters</td>
<td></td>
</tr>
</tbody>
</table>

1920 x 1080

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

Select 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.
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
Advanced

4K Input Module Mode
  EDID >>
  Input Adjustment >>
  Output Adjustment >>
  Test Pattern >>

Scene Management >>
System Setting >>

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

Destination 8.DP1.2
EDID source CUSTOM

Image Quality

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

DVI Mode
  Brightness
  Contrast
  Color Saturation
  Sharpness

Color Red
  Color Green
  Color Blue
  Save Setting
  Reset Parameters
Input 4K signal:

<table>
<thead>
<tr>
<th>Brightness</th>
<th>Color Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast</td>
<td>Save Setting</td>
</tr>
<tr>
<td>Color Default Mode</td>
<td>Reset Parameters</td>
</tr>
<tr>
<td>Color Red</td>
<td></td>
</tr>
<tr>
<td>Color Green</td>
<td></td>
</tr>
</tbody>
</table>

**Scale**

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

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>H Pos</th>
<th>V Pos</th>
<th>Save Setting</th>
<th>Reset Parameters</th>
</tr>
</thead>
</table>

**USB Control**

<table>
<thead>
<tr>
<th>USB Module</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Port</td>
<td>Play Time</td>
</tr>
<tr>
<td>Play Types</td>
<td></td>
</tr>
<tr>
<td>Play Document</td>
<td></td>
</tr>
<tr>
<td>Play Order</td>
<td></td>
</tr>
</tbody>
</table>

**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

**Output Board:**
TP Mode: Live Image
Red: 255
Green: 255
Blue: 255

Scene Management

**Fade In Fade Out time:** 0.15~10.0S
Set fade in fade out time for scene switching

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Save To
Save the scene to SCENE 1-10

Save To
SCENE 5
Button on is ready to recall
Button flashes means current scene

Load From
Load saved scene from SCENE 1-10.

Load From
SCENE 5
Button on is ready to recall
Button flashes means current scene

System Setting

<table>
<thead>
<tr>
<th>SN</th>
<th>XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCALE/BLACK Button</td>
<td></td>
</tr>
<tr>
<td>Software Version</td>
<td>&gt;&gt;</td>
</tr>
<tr>
<td>Technical Support</td>
<td>&gt;&gt;</td>
</tr>
<tr>
<td>Network Setting</td>
<td>&gt;&gt;</td>
</tr>
<tr>
<td>Fan Speed</td>
<td>&gt;&gt;</td>
</tr>
</tbody>
</table>

**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 1 and 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.
# 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.

<table>
<thead>
<tr>
<th>4K Input Module Mode</th>
<th>Split Layout</th>
<th>PIP</th>
<th>Background Signal</th>
<th>Background Mode</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Left Screen Source</th>
<th>Right Screen Source</th>
<th>V Total</th>
<th>H Total</th>
<th>Width 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Background Details</td>
<td>Save Setting</td>
<td>Reset Parameters</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.
**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.
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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