



RGBlink Q16pro Q Series LED Video Processor User Guide

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RGBlink Q16pro Q Series LED Video Processor



Product Information

Quick Start

The Q16pro is a modular design with flexible input and output combinations that supports up to 8 inputs, including HDMI 1.3, SD/HD/3G SDI (to be published), HDMI2.0, H.264/265 for 2K and 4K signals. It comes with 4 HDMI 1.3 outputs and builds with local front control panel and remote control interfaces with RS 232 and Ethernet ports. The Q16pro is available to be remote controlled by XPOSE or 3rd party APP/controller by open API.

Features

- OSD rolling subtitles
- Custom output resolutions
- Support for 8 screens spanning the output port without occupying layers
- Independent display management control
- Custom EDID
- Control via XPOSE or RGBlink OpenAPI
- Rugged design with class-leading video processing and image quality
- Ultra-low latency
- Versatile 4K connectivity
- Live streaming capabilities
- Unmatched ease of use

Packing Configuration

- 1 x AC Power Cord
- 2 x HDMI Cable
- 1 x Network Cable
- 1 x DB9 to RJ11 Cable
- 1 x Anti-Static Bag
- 1 x USB Disk (contains the upgrading tool package and user manual)

Hardware Orientation

Front Panel

- MENU and EXIT buttons
- LOAD SCENE button
- IN1-IN8 input signal selection buttons
- 1, 2, 3, 4, 6, 7, 8, 9 digital buttons
- Sleep Button
- SAVE SCENE button
- Enter SPLIT menu button
- Enter Layout Select menu button
- Layer 1-8 and 0, 5 digital button
- LCD Panel for displaying current status of the product and for feature selections, provides interactive choices in conjunction with buttons on the front panel.

Rear Panel

- Input Connectors – Optional slots (2) and Standard (1)
- Output Connectors – Standard (3)
- Control Connectors – LAN RJ45 / RS232 RJ11 for system upgrade and remote control via APP (4)
- Power Socket (5)

Menu Tree

Push MENU button to enter the main menu. Turn the knob to select the corresponding menu item. Push MENU button to return back to the previous menu. The MENU structure includes Presentation, Split, Advanced, System and Scene Manage, shown in the figure below.

Product Usage

Presentation

After the device is booted up, push MENU, rotate the knob and select Output Resolutions >> Image Selection >> Output Resolution. You can choose between Standard or Custom resolution. Standard resolution can be selected by pushing the knob. Custom resolution can be selected by using 1-9 numbers to key in the width, height, and frame rate. Note that changing the resolution of a different size will clean up the saved scene!

For further information or any application questions, please contact RGBlink's customer support engineers.

Product Introduction

Q16pro edition supports up to 8 inputs, including HDMI 1.3, SD/HD/3G SDI (to be published), HDMI2.0, H.264/265 for 2K and 4K signals. The standard unit comes with 4 HDMI 1.3 outputs and builds with local front control panel and remote control interfaces with RS 232 and ethernet ports.

Q16pro is available to be remote controlled by XPOSE or 3rd party APP / controller by open API.

Q16pro combine rugged design, class-leading video processing and image quality, ultra-low latency, versatile 4K connectivity, live streaming capabilities, and unmatched ease of use to meet the requirement of the modern commercial display systems application, including live corporate meetings, hybrid events, worship productions, or large-scale LED video wall installations.

Its outputs supports up to 4 independent displays, and 8 layers with arbitrary roaming capacity and each layer can cross over each output without layer counting up.

System Connection Diagram

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



Q16pro SYSTEM CONNECTION DIAGRAM

Packing Configuration

1 x AC Power Cord



2 x HDMI Cable



1 x Network Cable



1 x DB9 to RJ11 Cable



1 x Anti-Static Bag



1 x USB Disk














Note:

AC Power Cable supplied as standard according to destination market. Upgrading tool package and user manual are stored in the U disk, please keep it.

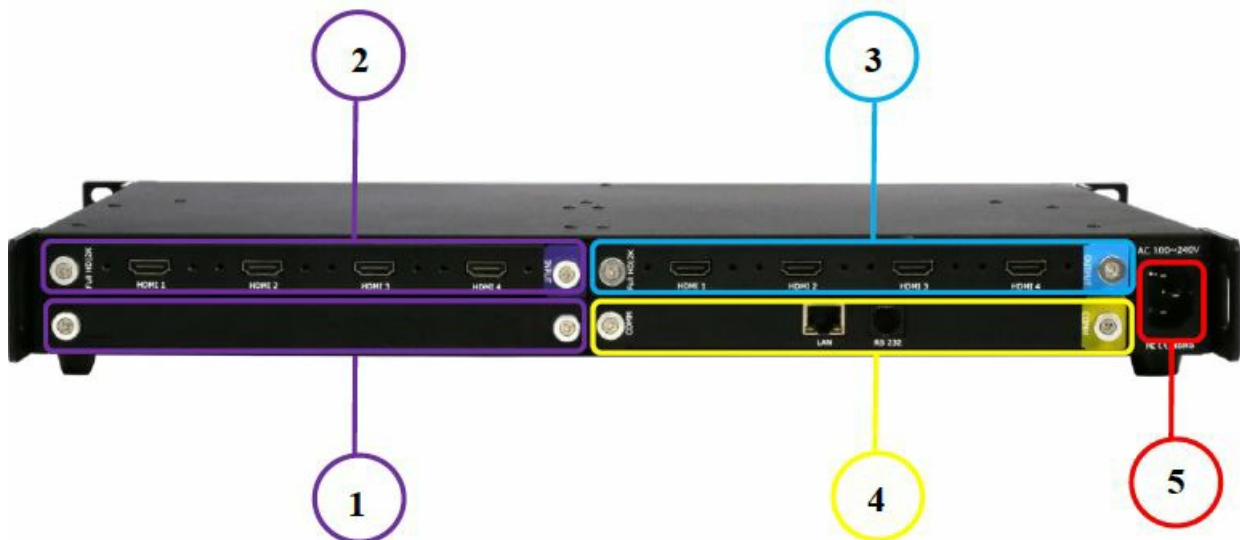
Hardware Orientation

Front Panel



Button Instruction			
	MENU and EXIT		SAVE SCENE
	Adjust size and position of layers		Enter SPLIT menu
	LOAD SCENE		Enter Layout Select menu
	IN1-IN8 input signal selection buttons and 1, 2, 3, 4, 6, 7, 8, 9 digital button		Layer 1-8 and 0, 5 digital button
	Sleep Button		LCD Panel. Display 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		

Rear Panel



Input Connectors	
1	Optional slots
2	Standard 4×HDMI-IN, resolutions up to 1920*1080@60, support EDID
Output Connectors	
3	Standard 4×HDMI-OUT, resolutions up to 1920*1080@60, support EDID
Control Connectors	
4	LAN RJ45 / RS232 RJ11 Use for system upgrade and remote control via APP
Power Socket	
5	1×IEC power socket

Menu Tree


Push MENU button to enter main menu. Turn the knob to select corresponding menu item. Push MENU button to return back to the previous menu. The MENU structure includes Presentation, Split, Advanced, System and Scene Manage, shown in the figure below.

Presentation	Split	Advanced	System	Scene Manage
Output Resolution >>	Output Resolution >>	4KInput Mode >>	SN ffff	Fade Time 1.0 S
Image Select >>	Split Mode >>	EDID >>	BG/Black Key BG	Save To >>
		Input Adjustment >>	Software Version >>	Load From >>
		Output Adjustment >>	Network Setting >>	
		Device Encryption >>	Fan Speed >>	
		Synchronize	Language语言 ENG	
			Factory Reset	

Use Your Product

Presentation

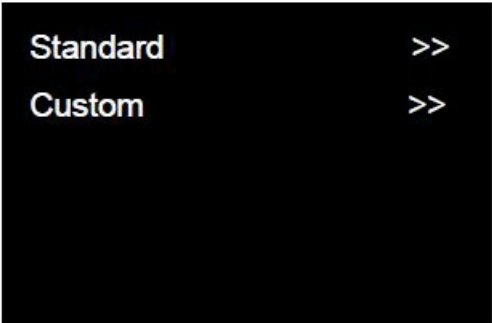
After the device is boot up, push MENU, rotate the knob and select <Presentation>



Output Resolutions >>
Image Selection >>

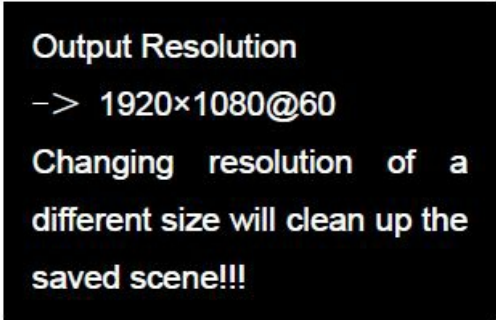
Output Resolution

- **Output Resolution:** Choose Standard or Custom resolution.



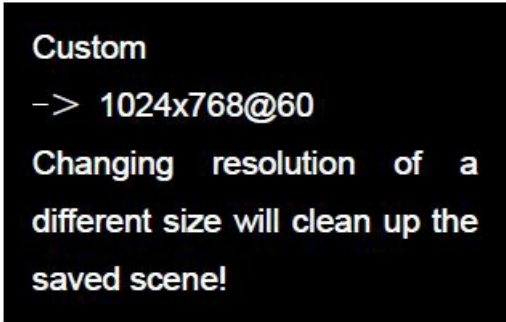
Standard >>
Custom >>

- **Standard:** Push the knob for output resolution selection.



Output Resolution
-> 1920x1080@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
-> 1024x768@60
Changing resolution of a
different size will clean up the
saved scene!

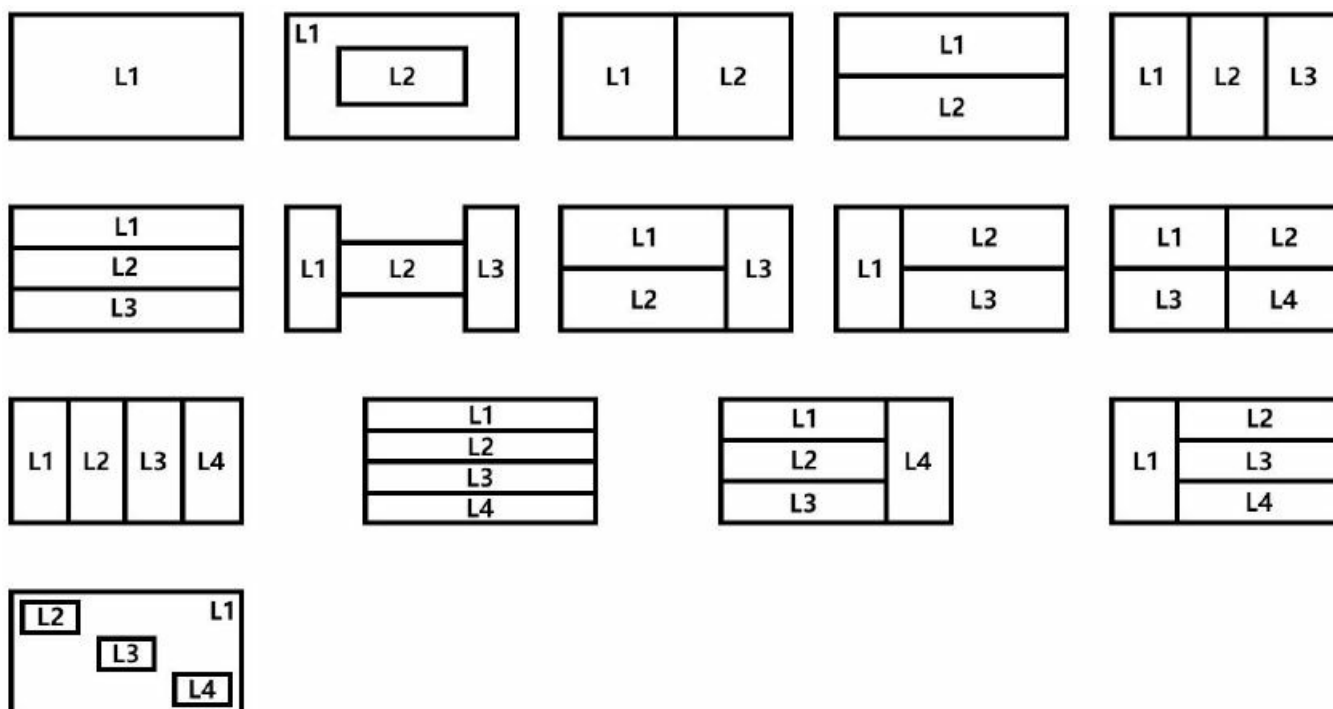
Image Select

Image Layout	>>
Image Select	L1
Source	1 DVI
Width	1920
Height	1080

H Pos	0
V Pos	0
Crop	>>
Reset Parameters	

Image Layout:

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



Split

Push MENU, rotate the knob and select <Split>

Output Resolution	>>
Split Mode	>>

Output Resolution


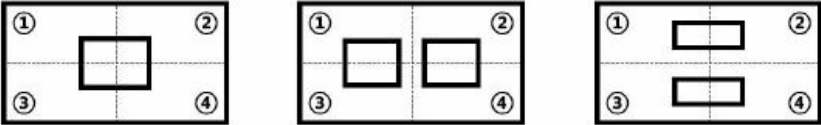
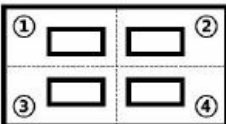

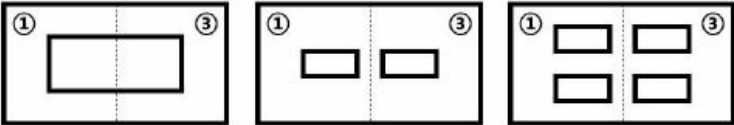

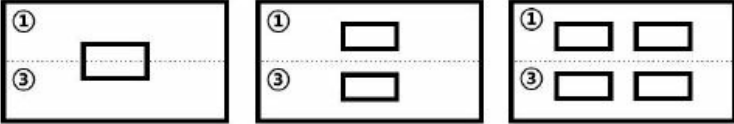
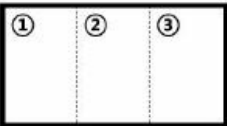
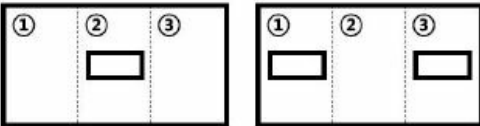
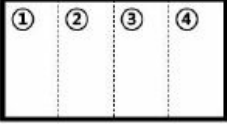
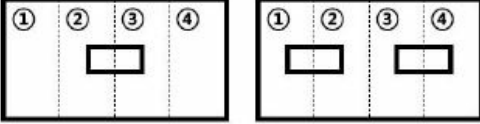

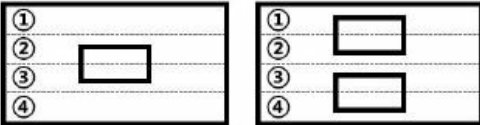
The same operation as shown in last part.

Split Mod

Split Layout >>
 4K Input Mode >>
 Reset

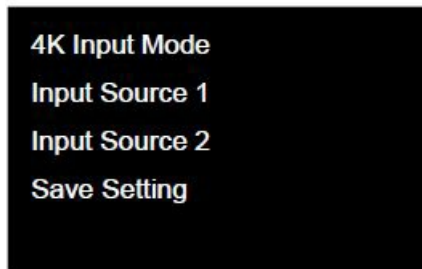
Split Layout

There are 6 background split mode available.

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

4K Input Mode

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



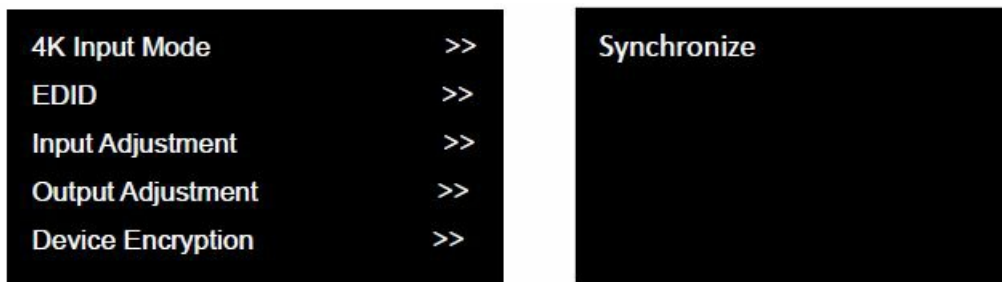
- **Input Source 1** Select one from HDMI 2.0, DP 1.2 in 4K×2K
- **Input Source 2** Select two from HDMI 2.0, DP 1.2 in 4K×1K

Save Setting to confirm.

Reset

Cancel above setting

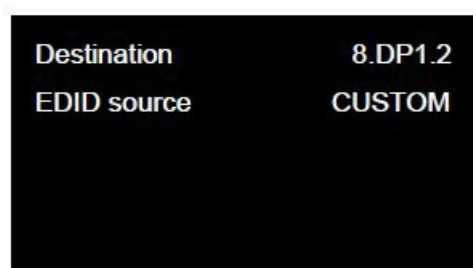
Advanced



4K Input Mode

The same operation as shown in Split.

EDID



- **Destination:** 1~8 Input Port
- **EDID Source:** RGBDVI, RGBHDMI

Choose CUSTOM to custom EDID, Choose RESET to reset EDID.

Input Adjustment

Image Quality	>>
Scale	>>
Crop	>>

Image Quality

Input Signal 1-8: 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:

Brightness
Contrast
Color Default Mode
Color Red
Color Green

Color Blue
Save Setting
Reset Parameters

Scale & Crop

Scale/Crop: Adjust each input source by scale/crop.

Input Signal	3 HDMI 2.0
Width	0
Height	0
H Pos	0
V Pos	0
Save	
Reset	

Output Adjustment

Output Type	>>
Output Exchange	>>

Output Type:

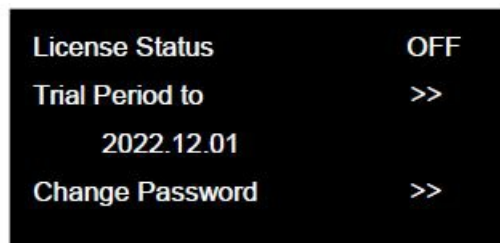
- **Output Connectors:** 1/2/3/4/5/6/7/8 DVI Module DVI/HDMI

Output Exchange:



Device Encryption

Q16pro supports device encryption. Users should firstly key in default password 20090721 to enter the following interface.



System



- **SN:** to check serial number of the device.
- **BG/Black Key:**
 - **BG:** Choose to display or not to display background.
 - **BLACK Key:** Black out selected layer.
- **Software Version:** Check module version.
- **Network Setting:** Check Mac address and turn DHCP ON/OFF.
- **Fan Speed:** Support manual or automatic adjustment of fan speed.
- **Language:** English or Chinese available.
- **Factory Reset:** Confirm by pushing knob, cancel by pushing any other key.

Scene Management



- **Fade Time:** 0.1S~10.0S.
- **Save To:** Save the scene to SCENE 1-16.
- **Load From:** Load saved scene.

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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Documents / Resources

	<p>RGBlink Q16pro Q Series LED Video Processor [pdf] User Guide</p> <p>Q16pro, Q Series LED Video Processor, Q16pro Q Series LED Video Processor, LED Video Processor, Video Processor, Processor</p>
	<p>RGBlink Q16pro Q Series LED Video Processor [pdf] User Guide</p> <p>Q16pro, Q Series LED Video Processor, Q16pro Q Series LED Video Processor, LED Video Processor, Video Processor, Processor</p>

References

- 
-  [RGBlink](#)
-  [RGBlink](#)