RGBlink Q16 Pro 4K Multi-Layer Video Wall Processor User Manual

RGBlink Q16 Pro 4K Multi-Layer Video Wall Processor User Manual

Q16pro edition supports up to 8 inputs, including HDMI 1.3, SD/HD/3G SDI, 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 patry APP / controller by open API.

Q16pro combine rugged design, class-leading video processing and image quality, ultra-low latency, versatile 4K connectivity, livestreaming 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.

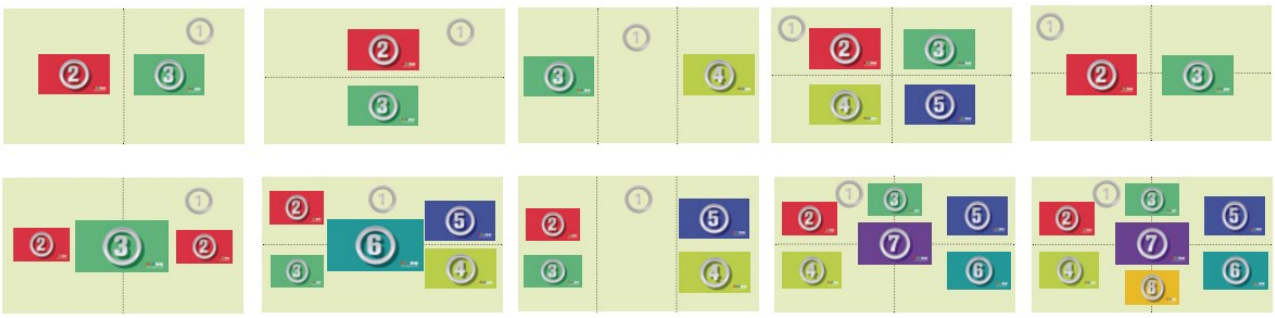
2K Connectivity
Input module supports up to 2 pieces of 2K, each module signal supports HDMI 1.3, SD/HD/3G SDI or H.264/H.265.
Output module supports 1 pieces 2K only and HDMI 1.3 outputs.

4K Connectivity
Input module supports up to 2 pieces of 4K, each module signal supports HDMI 2.0, DP 1.2 (released on 2023).
Output module supports 1 pieces 2K only and with 4 HDMI 1.3 outputs together to be a full 4K.

Mixed Input Connectivity
As each input module is dedicated with the same independent input interfaces, to achieve mixed signal inputs need to install input modules separately. Take input HDMI 1.3 input module and input HDMI 2.0 input module to

support 2K and 4K inputs mixed.

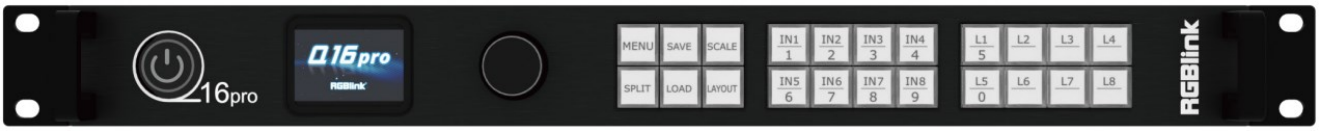
Custom Multi-Layer Splicing
The 4-way HDMI 1.3 output can be spliced in any combination according to project requirements, or can be spliced in any multi-window display template.



Switch Seamlessly
Q16pro supports seamless switching in CUT and zero delay.
Each input can be switched seamlessly on each output. Each Preset (bank) can be switched seamlessly in between.

Up to 8 layers
Up to 8 layers can be roamed as will, and no layer is consumed across outputs. It means layer will not count up like the old version. The old version layer counts up once cross each output boarder

Powerful Configuration & Control
Remote configure and control Q16pro by XPOSE for Windows and macOS. Control Q16pro over Ethernet with either XPOSE or RGBlink OpenAPI which provides extensive integration opportunities with virtually any 3rd party control.



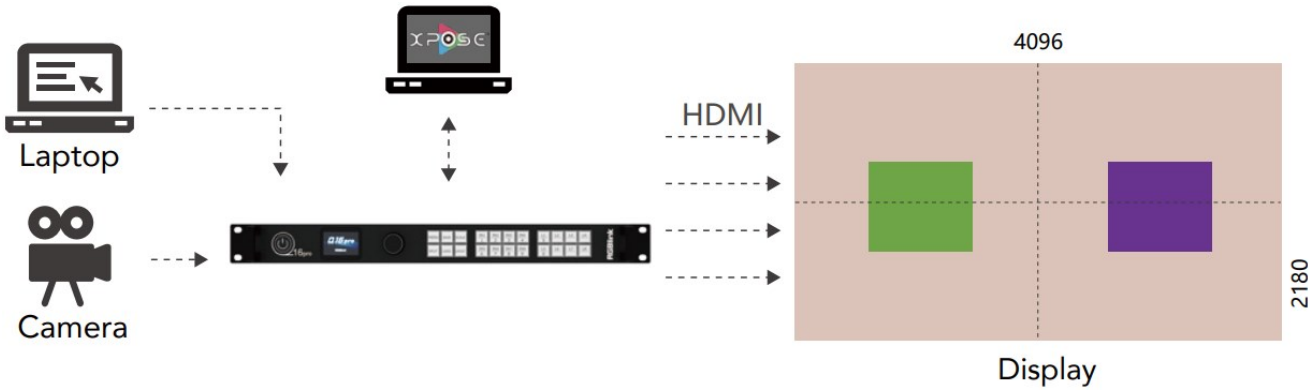
Test Pattern
Q16pro includes an on board Test Pattern generator with common patterns such as colour bars, pure colors.

Logo Programable

Q16pro supports one logo to be overlayed over the video, will not take layer, resolution up to 4K and in BMP format, logo can be any position of the output display management range.

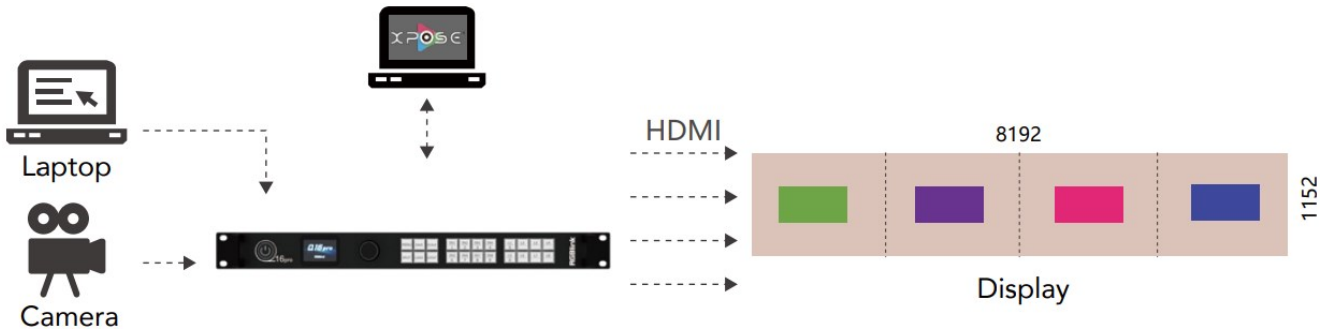
4K2K Splicing

Input a 4K UHD signal and splice tear-free arcross multiple 2K outputs, another 4 pieces 2K inputs work as layers on the top, pixel-to-pixel and ideal for 4K LED display applications”



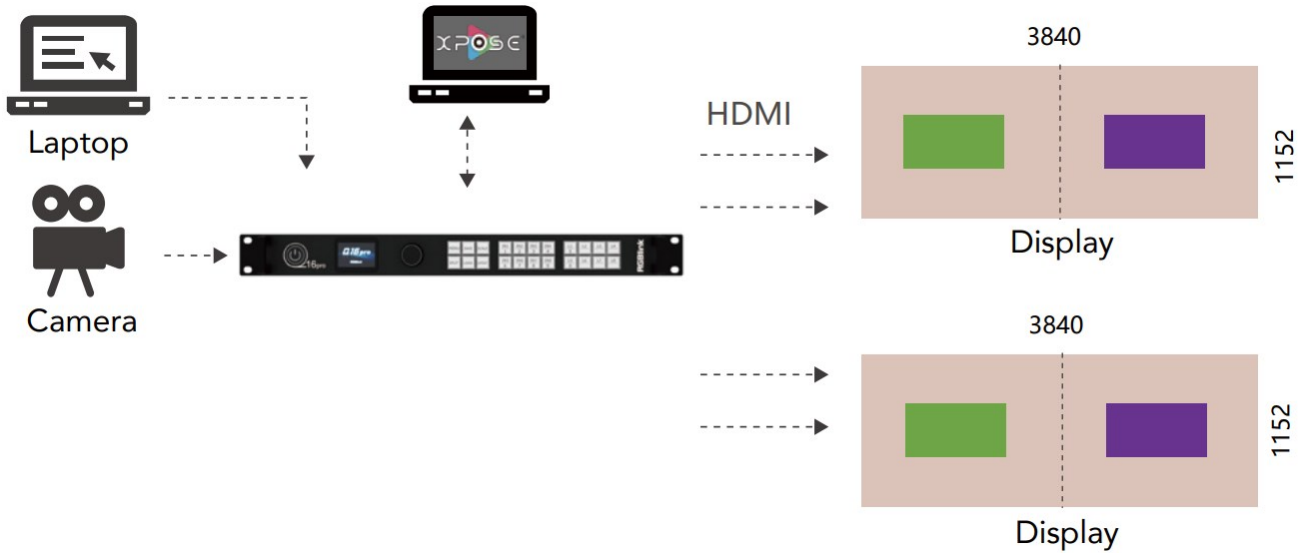
8K1K splicing

Create a display up to 8K1K across four ouptuts with a spliced background source and up to supported 7 2K PIP layers on any position.



Dual 4K1K Splicing

Through the splicing mode, can overlay any two 2K layers on a 4K1K background to achieve multi-screen splicing display

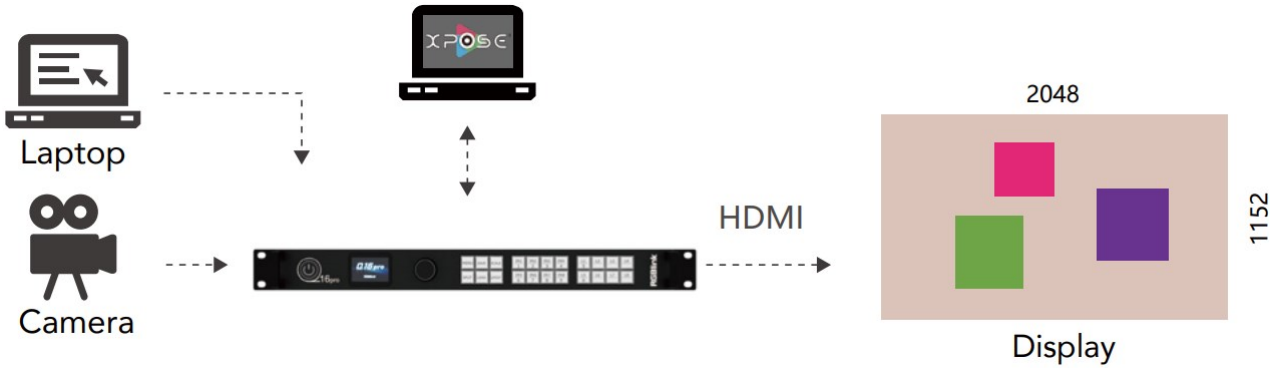


OSD (subtitle) Programable

Q16pro supports two independent OSD to be overlayed over the video, each OSD fonts, color, size, resolution and position can be programmed separately. Each OSD resolution can be higher the display management resolution. OSD does not take the layers.

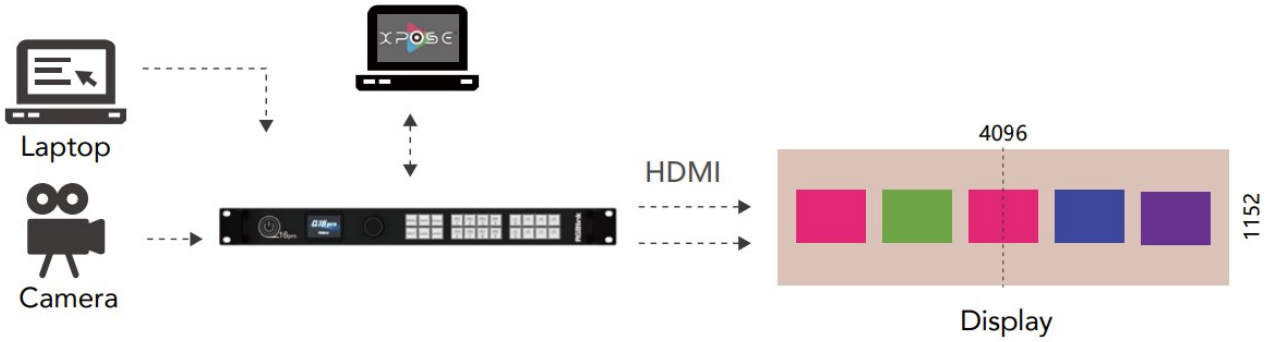
2K Presentation

Up to in total of 8 layers may be used on a single 2K HDMI output display. With a dedicated background layer from one of the input (One 4K input or 1 dedicated 2K inputs to be used for this live input), add up to 7 layers on the top in different presets. If with saved background logo picture, can add up to 8 layers on the top.



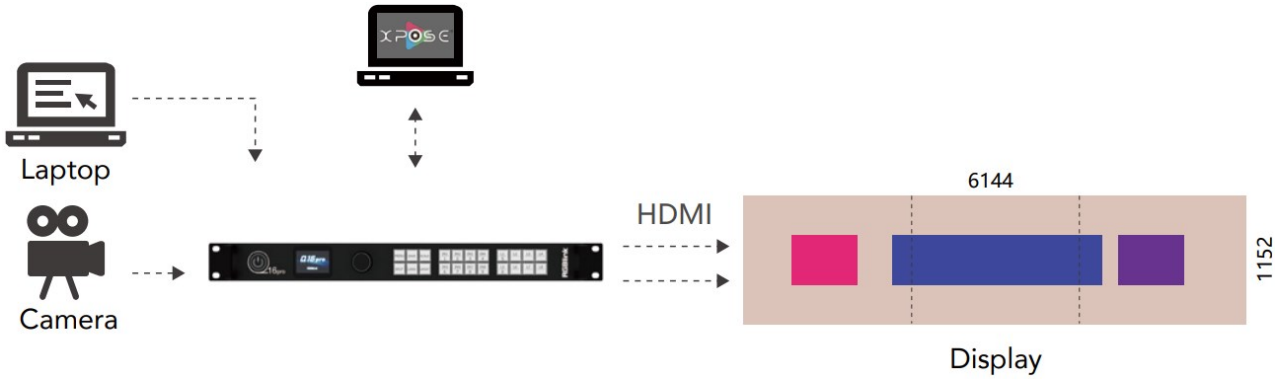
4K1K Presentation

Create a 4K1K canvase with background and apply up to supported 7 2K PIP layers on any position.



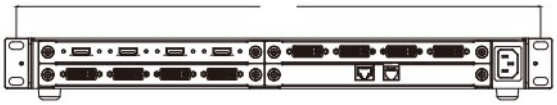
6K1K Presentation

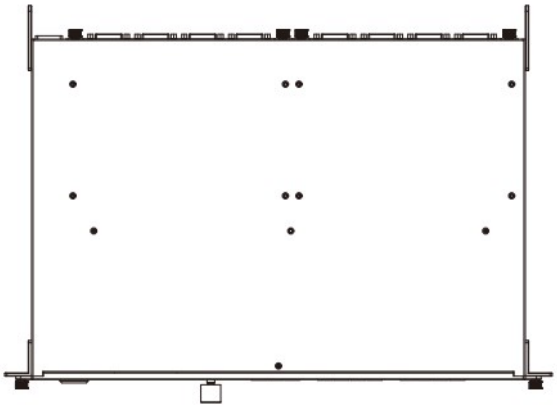
With a dedicated background layer spliced across three 2K outputs to form a 6Kx1K canvas add up to supported 7 2K PIP layers on any position.

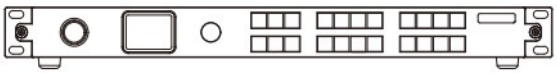


Contents

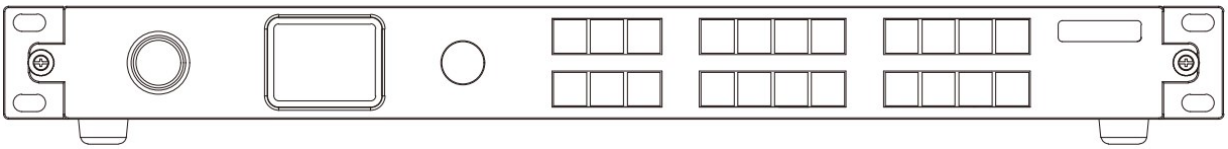
Dimensions







Specification



Input	2 slots, up to 8 inputs		
	Standard with	HDMI 1.3	4×HDMI-A

	Optional	SDI (SD/HD/3G) (to be published)	8×BNC(4 In | 4 Loop)
		DP 1.2 | HDMI 2.0	2× DP | 2 × HDMI-A
Output	Standard wit hOptional	HDMI 1.3	4×HDMI-A
		DP 1.2	2×DP
Communicati on		LAN	1×RJ45
		RS 232	1×RJ11
Power			1×IEC
Input Resolu tions	**SDI**		
	SMPTE	480i | 576i | 720p@50/60 | 1080i@59.94/60 | 1080p@50/59.94/60	
	DP		
	VESA	800×600@60 | 1024×768@60 | 1280×1024@60 | 1440×900@60 | 1600×1200 @60 | 1920×1080@60 | 2560×1440@60 |3840×2160@60	
	HDMI		
	SMPTE	480i | 576i | 720p@50/59.94/60 | 1080i@50/59.94/60 | 1080p@50/59.94/60 | 21 60p@50/60	
	VESA	800×600@60 | 1024×768@60 | 1280×1024@60 | 1440×900@60 | 1600×1200 @60 | 1920×1080@60 |3840×2160@60	
Output Reso lutions	Select from below or configure customized		
	HDMI		
		720p@50/59.94/60| 1080p@50/59.94/60	
		800×600@60 | 1024×768@60 | 1280×720@50/59.94/60 | 1280×800@60 | 1280×960@60 |1280×1024@60 | 1400×1050@60 | 1600×1200@60 | 1920×1080@60 | 2048×1152@60	
	DP		
		720P@60 | 1080P@60 |2160@60	
		800×600@60 | 1024×768@60 | 1280×720@60 | 1280×800@60 | 1366×768@6 0 | 1400×1050@60 | 1600×1200@60 |1920×1080@60 | 2048×1152@60 | 2560 ×812@60 | 2560×816@60 | 2560×1600@60 |3840×1080@60 |3840×2160@23. 98/24/25/29.97/30/50/60	
Supported S tandards	SDI	SD/HD/3G	
	HDMI	2.0	
	DisplayPort	1.2	
Input Voltag e	AC 85V-264V , 50/60Hz		
Max Power	65W-5℃ 45℃		
Temperature			

Humidity	10%~85%	
Dimension	Net	490mm x 305mm x 55mm
	Packaged	530mm x 440mm x 120mm
Weight	Net	4.8kg
	Packaged	6.3kg

Order Codes

Product Code	Item
712-0004-05-0	Q16pro 1U, 2K Standard: 1 x Host (with Communication Module), 1 × HDMI 1.3 InputModule, 1 × HDMI 1.3 Output Module
712-0004-05-1	Q16pro 1U, 1 x Host (with Communication Module)
790-1004-01-0	Q16pro 1U Quad HDMI 1.3 Input Module
790-1004-02-0	Q16pro 1U Dual HDMI 2.0 & DP 1.2 4K@60 Input Module
790-1004-04-0	Q16pro 1U Quad 3G SDI Input Module (to be published)
790-1004-21-0	Q16pro 1U Dual DP 1.2 Output Module
790-1004-22-0	Q16pro 1U Quad HDMI 1.3 Output Module

WEB: www.rgblink.com EMAIL:sales@rgblink.com PHONE: +86 592 5771197
Proudly designed and manufactured in Xiamen Hi Technology Zone, China

Documents / Resources

	RGBlink Q16 Pro 4K Multi-Layer Video Wall Processor [pdf] User Manual Q16 Pro 4K Multi-Layer Video Wall Processor, Q16 Pro, 4K Multi-Layer Video Wall Processor, Video Wall Processor, Wall Processor, Processor

References

- RGBlink