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RGBlink Q16 Pro Multi-Window Splicing Processor for LCD and LED Video Wall Owner's Manual

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RGBlink Q16 Pro Multi-Window Splicing Processor for LCD and LED Video Wall

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Specification

Model	Q16pro 2U (preliminary)	Q16pro 4U	Q16pro 8U (preliminary	Q16pro 14U (preliminary)		
Specification	2U	4U	8U	14U		
Input Slots	3	4	10	20		
Output Slots	2	4	10	20		
Shared Slots	nonsupport	Output slot No.1~No.4	Output slot No.1~No.8	Output slot No.1~No.18		
Physical	Net Weight	6.0kg	8.5kg	15.0kg	20.0kg	
	Package Weight	9.7kg	12kg	15.0kg	20.0kg	
	Net Dimension	483.4x377x89mm	630mm x 585mm x 250mm	4665×525×495mm	665×525×495mm	
			DVI (preliminary)	4×DVI-I Compatible HDMI/DVI/VGA/YPbPr/CVBS	SDI (SD/HD/3G) (preliminary)	8×BNC(4 In |4 Loop)

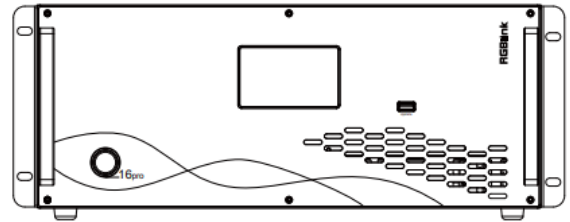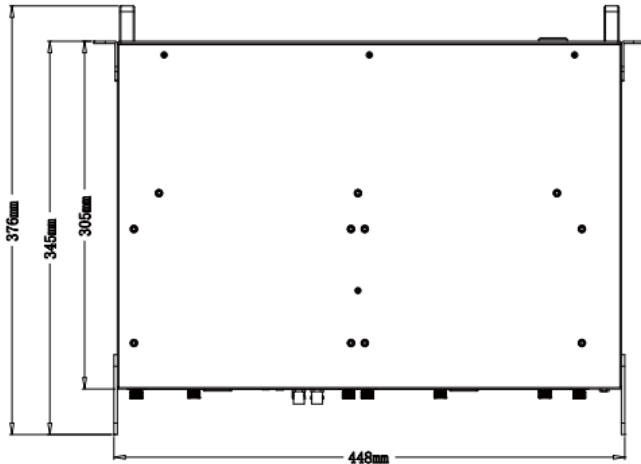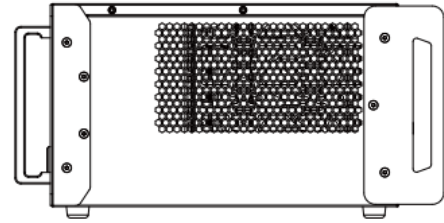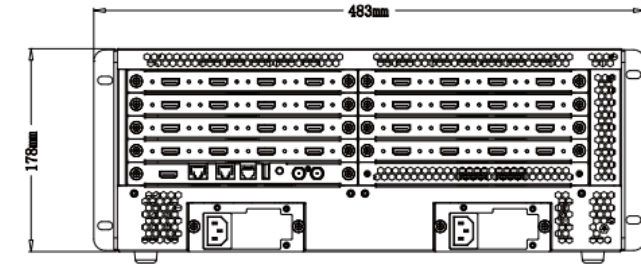|						
Physical	Input Connectors	Optional	DVI (preliminary)	4×DVI-I	HDBaseT (preliminary)	4xRJ45
			HDMI 1.3	4×HDMI-A	H.265 (preliminary)	2×RJ45
			DP1.2 | HDMI2.0 (preliminary)	2×DP | 2×HDMI-A		
	Output Connectors	Optional	DVI (preliminary)	4×DVI-I Compatible VGA	HDMI2.0 (preliminary)	2×HDMI-A
			HDMI1.3	4×HDMI-A	HDBaseT (preliminary)	4×RJ45
			SDI (preliminary)	4×BNC		
	Communication	Optional	Genlock	2×BNC 1 In | 1 Loop)	LAN	1×RJ45
	Connectors		RS232	1×RJ11	PVW	1×HDMI-A
	PVW Connectors	Optional	HDMI	2×HDMI-A	Dante	1xRJ45
			Dante Backup	1xRJ45		
	Input	Select from below or configure customized				
	Resolutions	HDBaseT				
		SMPTE	720p@50/60|1080p@30/50/60			
	VESA	800×600@60 | 1024×768@60 | 1280×768@60 | 1280×1024@60 | 1600×1200@60 | 1920×1080@60				
		H.264/H.265				
		SMPTE	720p@50/60|1080p@30/50/60|2160p@30			

Connectors		DVI | HDMI 1.3	
		SMPTE	720p@50/60|1080p@30/50/60
		VESA	800×600@60 | 1024×768@60 | 1280×720@60 | 1280×800@60 | 1280×1024@60 | 1360×768@60 | 1366×768@60 | 1440×900@60 | 1400×1050@60 | 1600×1200@60 | 1680×1050@60 | 1920×1080@60
		SDI (SD/HD/3G)	
		SMPTE	720p@50/60 | 1080p@23.94/24.97/25/30/50/60| 1080i@50/60
		DP 1.2 | HDMI 2.0	
		SMPTE	720p@50/60|1080p@30/50/60|2160p@60
		VESA	800×600@60 | 1024×768@60 | 1280×720@60 | 1280×800@60 | 1280×1024@60 | 1360×768@60 | 1366×768@60 | 1440×900@60 | 1400×1050@60 | 1600×1200@60 | 1680×1050@60 | 1920×1080@60 | 1920×1200@60 | 3840×2160@30/60
	Output	Select from below or configure customized	
	Resolutions	DVI | HDMI 1.3	
		SMPTE	720p@50/60 | 1080p@30/50/60
		VESA	1024×768@60 |1280×1024@60 | 1920×1080@25/30/50/59.94/60
		SDI (SD/HD/3G)	
		SMPTE	720p@50/60 | 1080p@23.98/29.97/25/30/50/59.94/60 | 1080i@50/59.94/60
		HDMI2.0	
		SMPTE	720p@50/60 | 1080p@30/50/60 | 2160p@30/60
		VESA	1024×768@60 | 1280×720@60 | 1280×768@60 | 1280×800@60 | 1280×1024@60 | 1360×768@60 | 1440×900@60 | 1920×1200@60 | 3840×570@60 | 2560×1600@60/120 | 3840×2160@30/60

	Supported	SDI	3G		H.265	H.265	DVI	DVI-1.0
	Standard	HDMI	2.0		HDBaseT	1.0	DP	1.2
Power	Input Voltage	AC 100V-240V, 50/60Hz (2U supports single power supply module, 4U and above supports double power supply module.)						
Working	Temperature	0℃ 45℃						
Environment	Humidity	15%~85%, RH						
Working	Temperature	0℃ 55℃						
Environment	Humidity	5%~85%, RH						

Order Codes

Product Code	Item
710-1002-06-0	Q16pro 2U (preliminary)
710-1002-01-1	Q16pro 4U (Communication Module Included)
710-1002-01-0	Q16pro 4U (Communication Module with PVW Included)
710-1002-07-0	Q16pro 8U (preliminary)
710-1002-08-0	Q16pro 14U (preliminary)
790-1002-01-0	Q Series Quad HDMI 1.3 Input Module
790-1002-02-0	Q Series Single IP Input Module (preliminary)
790-1002-03-0	Q Series Quad HDMI 2.0 & DP 1.2 Input Module (preliminary)
790-1002-04-0	Q Series Quad 3G SDI (LOOP) Input Module (preliminary)
790-1002-05-0	Q Series Quad DVI Input Module (preliminary)
Product Code	Item
790-1002-21-0	Q Series Quad HDMI 1.3 Output Module
790-1002-22-0	Q Series Communication Module with PVW
790-1002-23-0	Q Series Dual HDMI 2.0 Output Module (preliminary)
790-1002-24-0	Q Series Communication Module
790-1002-25-0	Q Series Quad 3G SDI Output Module (preliminary)
790-1002-26-0	Q Series Quad DVI Output Module (preliminary)
790-1002-27-0	Q Series Single IP Output Module (preliminary)
790-1002-30-0	Q Series PVW Module with Dante (preliminary)
950-0014-01-0	Q Series 250W Redundant Power Module

Dimensions

HDMI HDCP™

Proudly designed and manufactured in Xiamen Hi Technology Zone, China
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Q16pro is a high-performance video image processing system and high-performance video splicing server using pure hardware and leading-edge FPGA processing architecture. Offering a range of input and output signals via a card-based structure, and supporting hot swap of modules, and options including redundant power supplies, Q16pro is a stable high-performance platform that can be deployed in varied applications including corporate and visual messaging as well in retail and digital signage applications The Q16pro models allow connection of 4K

video sources as well as output to 4K, with outputs offering multi-screen and multi-layer capabilities. A host of features are built in to Q16pro, including EDID management, 3D image processing, and highly configurable OSD features at high-definition.

Multi- Layer Multi-Window

Q16pro offers up to 8 2K windows or four 4K windows per output slot. Layer resources able to be freely used across any of the outputs within a slot for maximum availability and efficiency, including combinations of both 2K and 4K layer windows. Q16pro layering allows multi-window applications for large scale and spanning multiple display outputs.
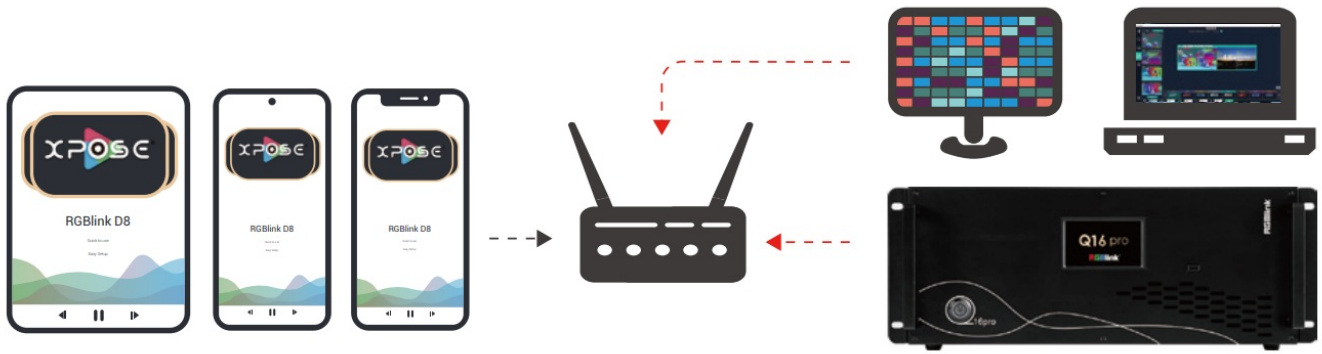

Frame Sizes for Every Scale

Q16pro models range from the compact 2U through to 14U with up to 80 inputs and 80 outputs with common modules across the range. Q16pro is truly scalable for even the largest applications .
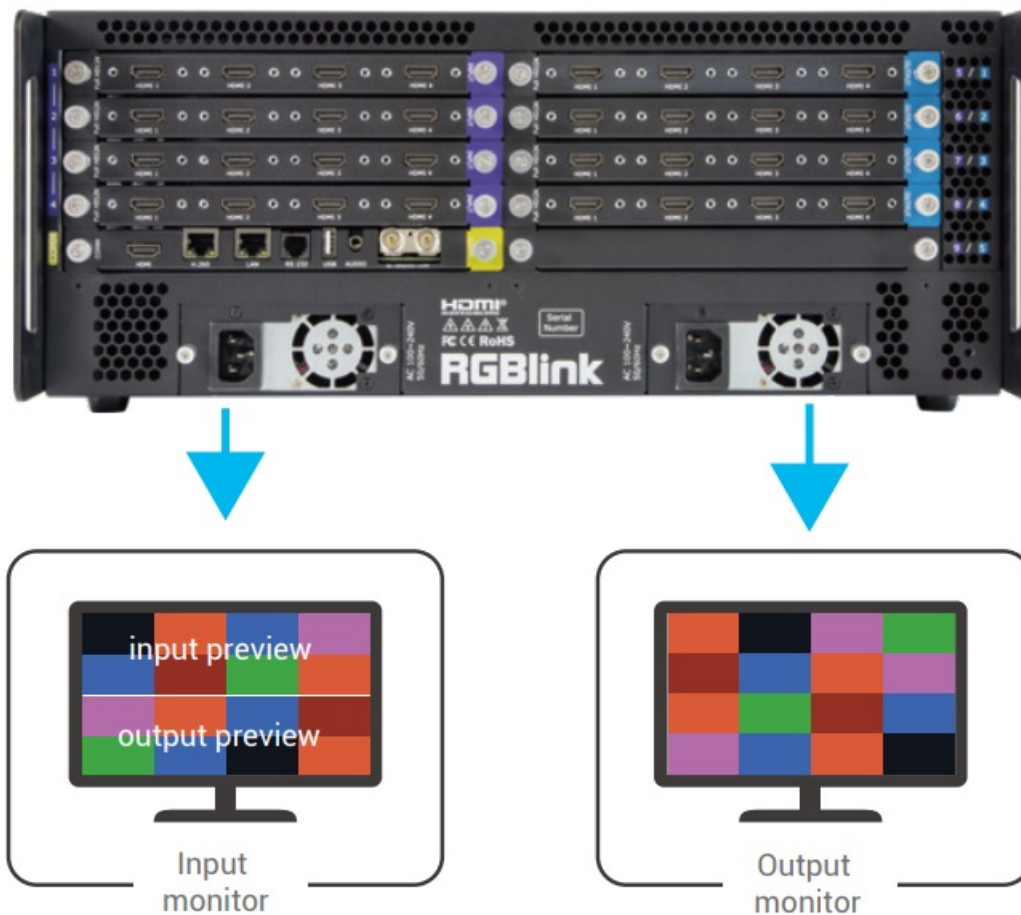

Take Control

Configure and control Q16pro devices from the acclaimed RGBlink XPOSE apps for laptop/desktop and mobile devices.
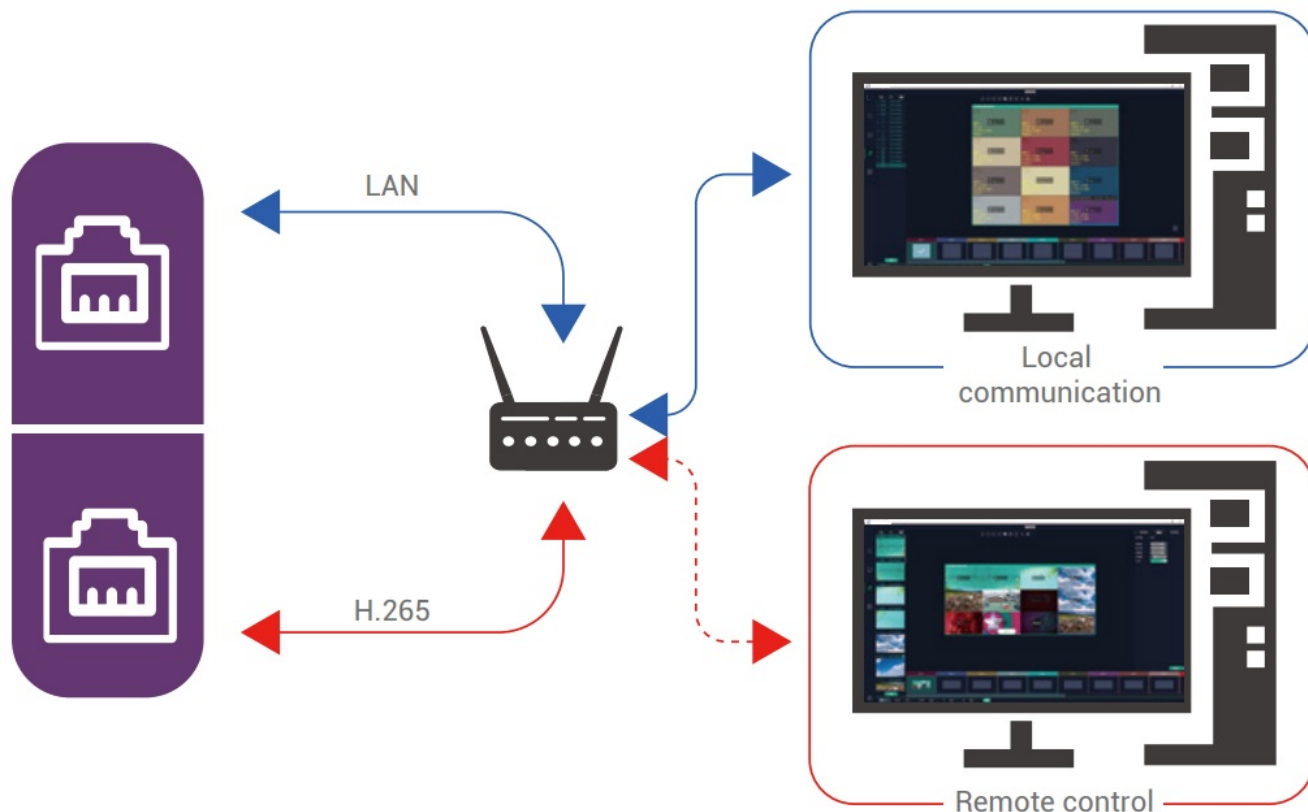
Input and output preview

Equipped with 2 high-definition multi-screen monitoring output interfaces, it can monitor 16 input or 16 output at the same time. Among them, 16 input source preview supports 4/9/16 screen division.

Dual network communication

Supports dual network communication: it has 1 local communication network port and 1 remote control port. In addition to remote control, the remote control port also has H.265 media remote control and monitoring functions.

OSD Dynamic Titles

Customised text in almost any format can be overlayed on output displays. The facility supports static and dynamic arrangements including scrolling messaging.

3D stitching

Scale and deliver 3D signals for 120Hz interpolated signals with internal frame-lock synchronization. Segmentation and fusion are completely seamless. Single key switching is available to transition between 2D and 3D on demand.

Dante volume monitoring

Dante audio technology integrates the media and control of your entire system into a standard network, and realizes real-time volume monitoring of 16 channels and 32 channels. Eliminates bulky and expensive analog wiring and replaces it with cheap and very common CAT5e, CAT6 wires for a simple, lightweight and economical solution
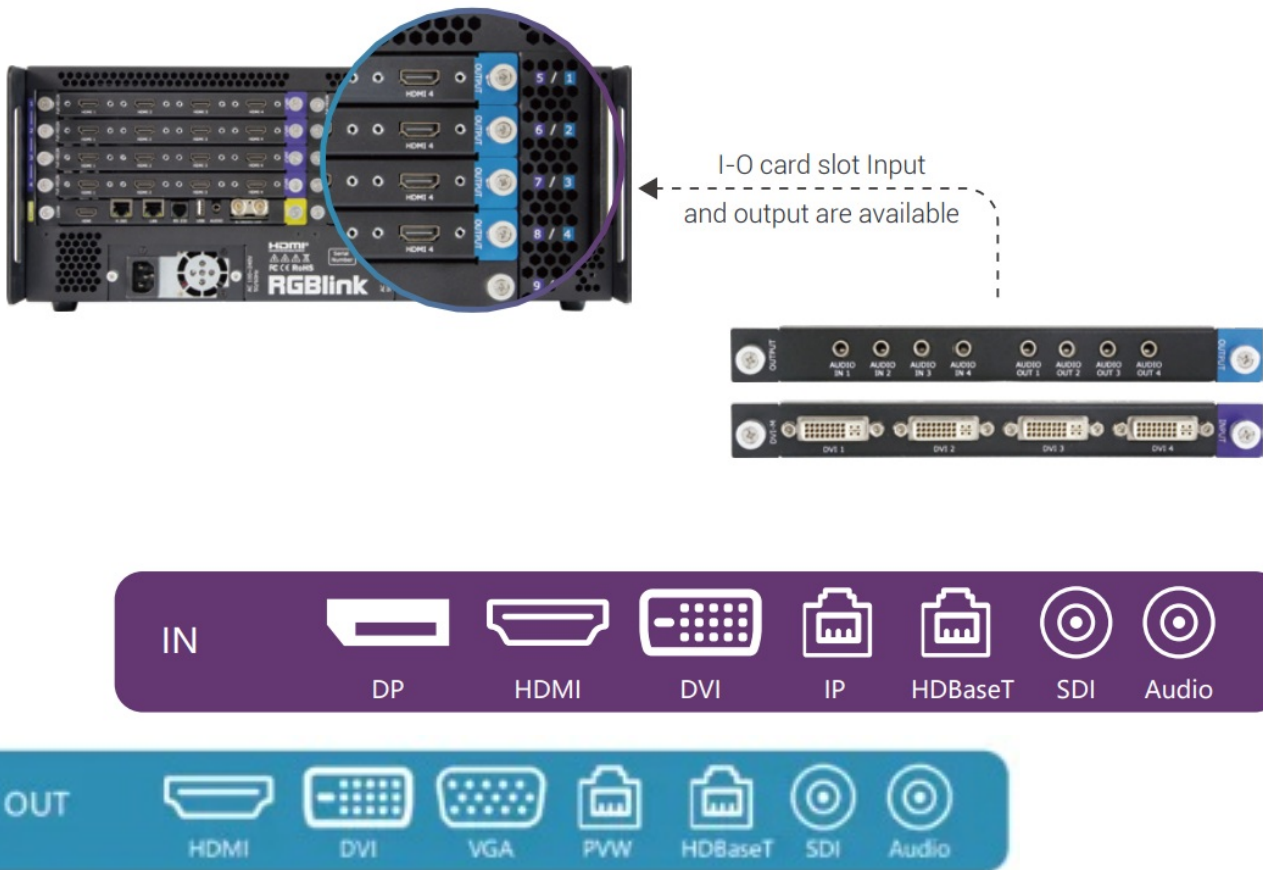

High Performance Lossless 4K Processing

Q16pro not only supports HDMI 2.0 and DisplayPort 1.2 4K@60 signals and is engineered end-to-end to maintain and enhance fidelity with full 4:4:4 maintained throughout. Utilizing advanced processing engine developed RGBlink.
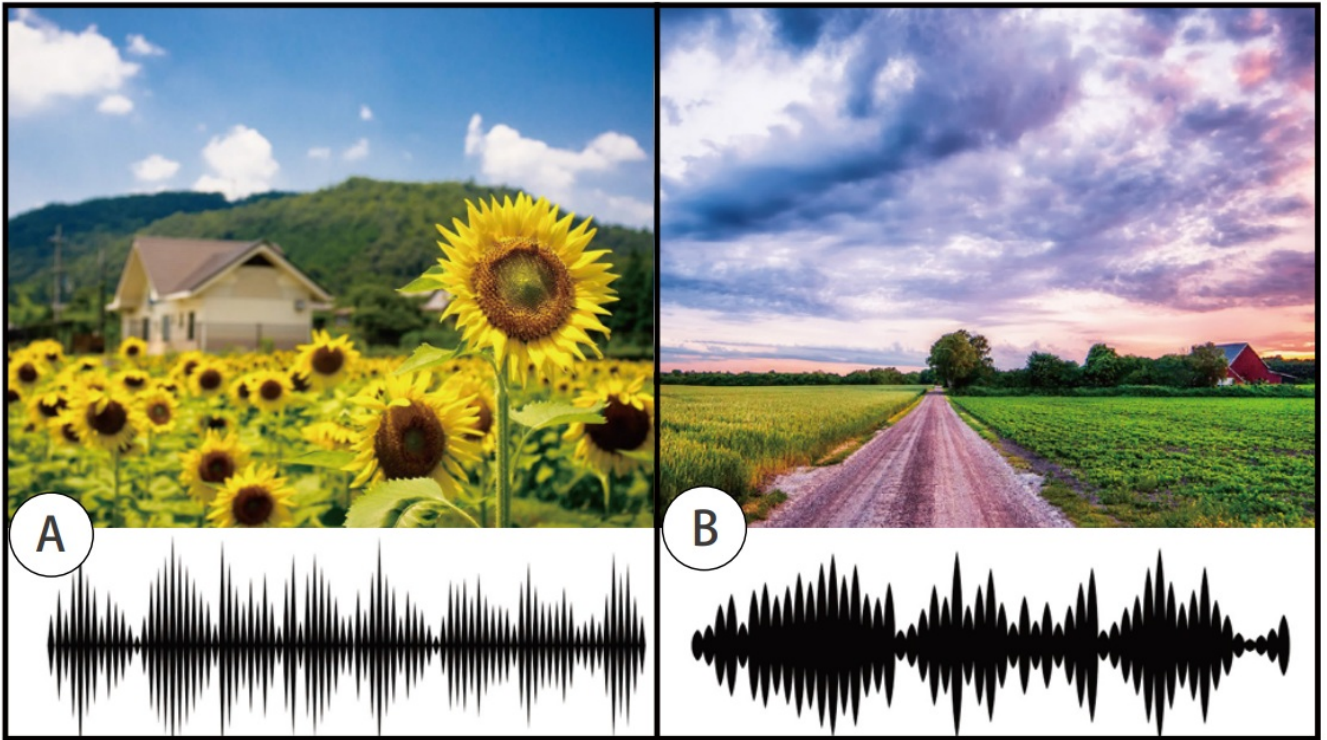
Modular Hybrid Modules

The processor offers a range of input and output modules, with signals able to be mixed-and-matched to meet requirement without in incurring overhead. Modules are easily user-fit lowering TCO and simplifying operations of Q16pro based installations.

I-O card slot Input and output are available

Configurable Audio Delivery

Both embedded and external/insert audio sources may be embedded to any output as well as be switched a part of video presets.

Documents / Resources

	RGBlink Q16 Pro Multi-Window Splicing Processor for LCD and LED Video Wall [pdf] Owner's Manual Q16 Pro Multi-Window Splicing Processor for LCD and LED Video Wall, Q16 Pro, Multi-Window Splicing Processor for LCD and LED Video Wall, Multi-Window Splicing Processor, Splicing Processor, Processor

References

- **RGBlink**