

PRELIMINARY

FLEXpro 8

multi-layer video wall processor



Powerful and flexible video wall
processing solution

RGBlink®

FLEXpro 8

Next generation flexible solution for sophisticated video applications

FLEXpro8 is an all new video processing solution for modern large scale display applications. With support for over 18 mega pixels across eight outputs, FLEXpro8 is designed for professional applications. Fit up to 16 independent inputs integrating a range of video sources and signals utilised in commercial display systems.

The innovative RGBlink modular signal system provides native on support for HDBaseT, Fiber and LED Control signals as well as conventional signals, embracing flexibility while being an efficient self-contained system.

Whether for integration or proAV FLEXpro8 has the multi-signal, multi-layer technology for virtually any display application.

Modular Design

FLEXpro8 has eight input slots which may be configured with either universal single modules or dual height modules. There are two dual output slots with each slot supporting up to four outputs. A wide range of options are available including dual height modules featuring locking XLR & HDMI connectors and multi-output RJ45.

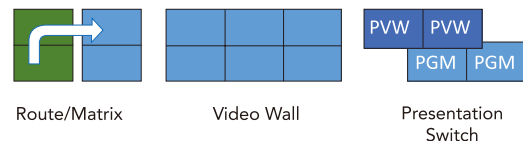
HDR Support

Signals with High Dynamic Range are supported for processing via the processor with high bandwidth and wide gamut 12bit grey level processing.



Multi-Mode Operations

Select the operation mode suitable for the application from continuous video wall mode to presentation mode and routing modes.



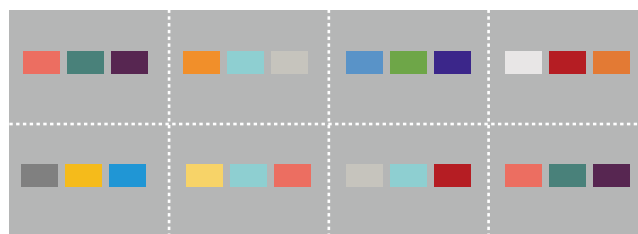
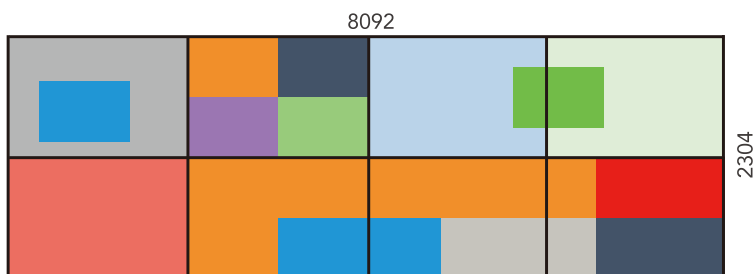
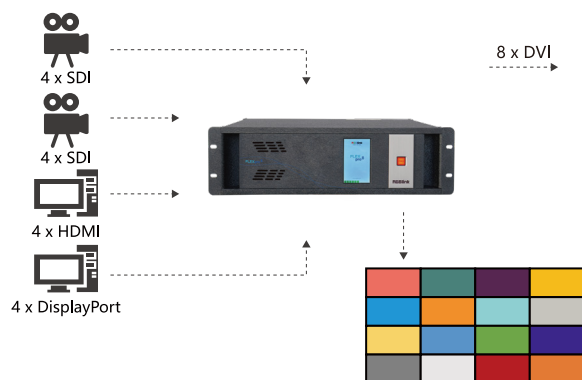
Full Color Space

Video scaling and conversion takes advantage of the RGBlink full 4:4:4 in hardware processing engine for the maximum visual performance.

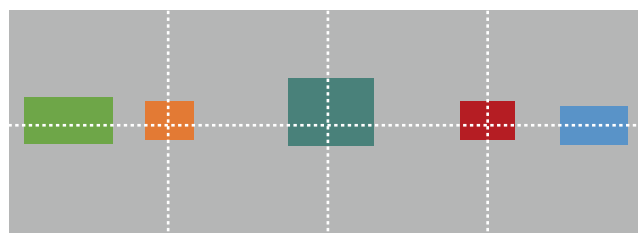
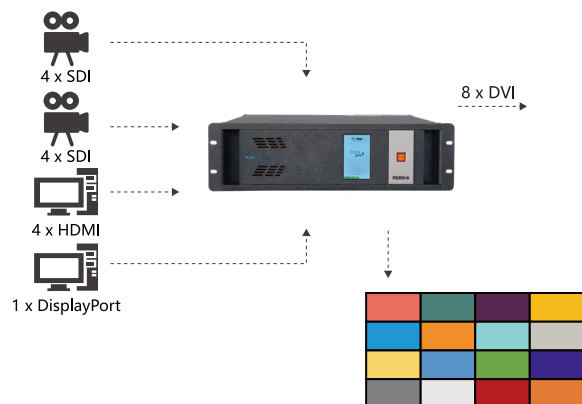


Video Wall Processor

Configure FLEXpro8 as video wall splicing processor with up to 32 layers presented. Outputs may be arranged in pixel space as one of more displays with video mapped across the pixel space. Switch between presets seamlessly.



Example: 16 independent sources displays as PIPs within each display, with a background image. Preview the connected sources via dedicated HDMI

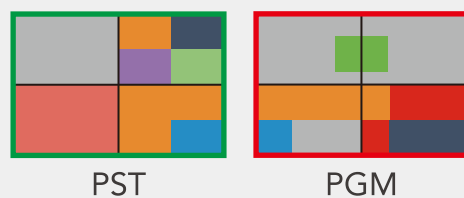


Example: 5 independent sources displays as PIPs within each display, with a background image. Preview the connected sources via dedicated HDMI



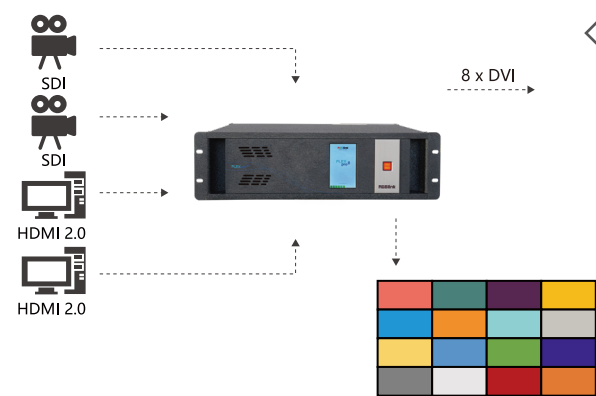
Presentation Switch

Set FLEXpro8 in presentation mode to configure the outputs as for full preview (PST) and program (PGM) operations with multiple layers across outputs. Seamlessly switch between presets.



Creative Displays

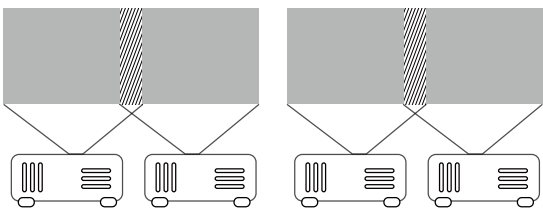
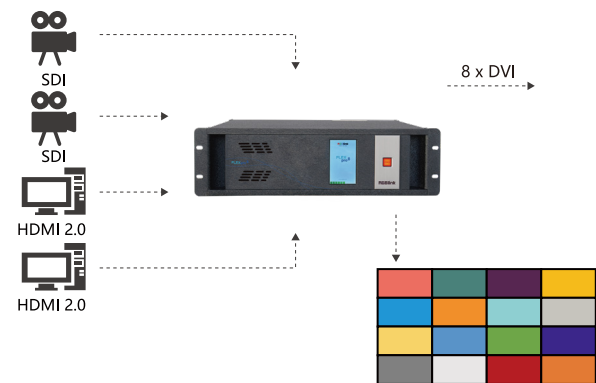
Configure FLEXpro8 as video wall splicing processor for up to eight outputs. Each output may be rotated in single degree increments and positioned freely. Overlapped displays are also supported for additional flexibility, and variable density (zoom) can be utilised for mixed display sizes to create seamless mapping in almost any arrangement.



Example: 4K HDMI mapped over eight rotated displays connected to eight HDMI ARO™ outputs fitted to FLEXpro8. Preview connected sources via dedicated HDMI

Projection Blending

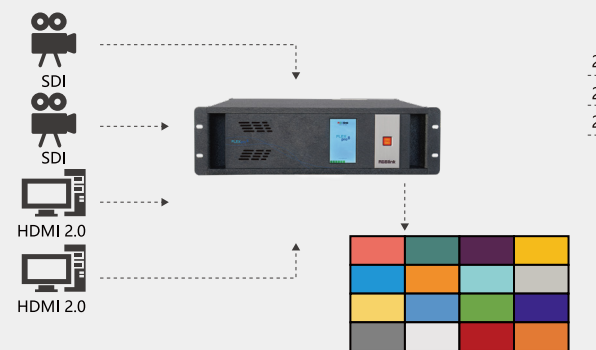
Output to projectors for edge blending applications to make panoramas or other rectangular displays where blending is required.



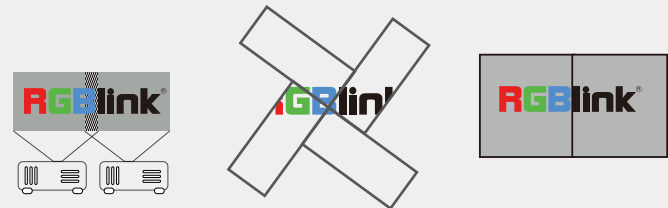
Example: Two 4K HDMI split and scaled for mapping over eight blended displays achieved using eight HDMI ARO™ output modules fitted to FLEXpro8. Preview connected sources via dedicated HDMI.

Video Display System

Bring together all sources and display components as a single system for the ultimate synchronised video.



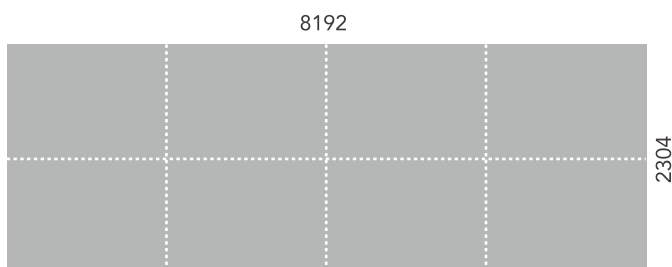
2 x Cat5
2 x HDMI
2 x HDMI



*Rotation and Blending requires modules supporting RGBlink ARO™

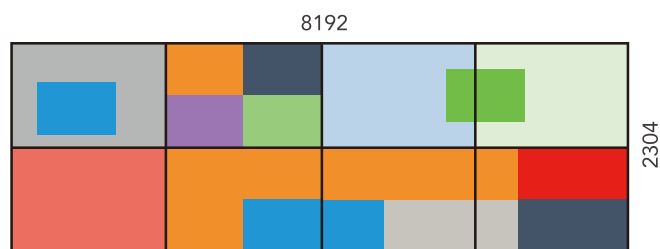
18 Mega Pixel Capacity

Arrange outputs on a virtual canvas to create display surfaces up to 8192x2304px at high 60Hz digital refresh



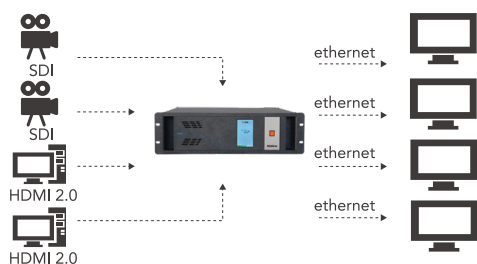
32 Video Layers

Display up to 32 video layers from any signal or source, synchronised for output across eight output displays.



Video Over IP

FLEXpro8 includes options for video over ethernet standards including HDBaseT modules allowing direct connection to displays without conversion .



4K / UHD Support

Select from digital input and output options including HDMI and DisplayPort.

4K 60

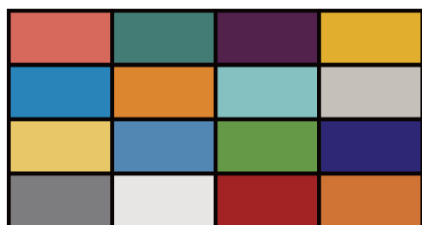
Front LCD Monitoring

The integral LCD provides local monitoring and status of FLEXpro8.



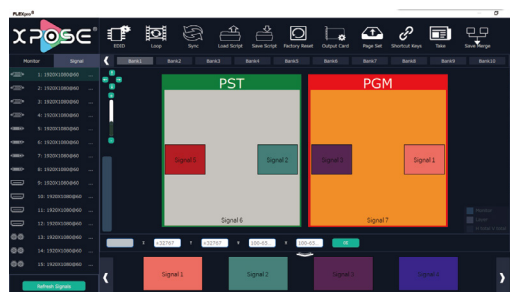
Dedicated Multi-View Preview

A built in preview feature allows local and remote review video sources. Connect display to HDMI PVW for a 4x4 Multiview. Connect the H.264 to XPOSE or a third party application to view multiple sources remotely. When connected to XPOSE, video can be seen in presets during configuration and operations.



Connect and Control

Remotely configure and control FLEXpro8 from XPOSE on Windows or macOS via LAN. Integrators may take advantage of RGBlink OpenAPI controlling FLEXpro8 from third party devices or applications over UDP.



Genlock

For synchronisation with other video devices, Genlock Y In is provided along with loop out.

Modular Power Supply

Fully self contained power supply is user exchangeable without tools. Power Supply is designed for high availability 24/7 server applications.



*Shown with option modules fitted. Refer to specifications and guides

Specification

Connections	Input	4 slots, up to 16inputs		
		Select from	4K Module	1 x HDMI 1 x DisplayPort
			3G SDI Module	1 x BNC
			HDMI Module	1 x HDMI-A
			DVI Module	1 x DVI-I
			HDBaseT Module	1 x RJ45
			USB Module	1 x USB TYPE-A
	Output	2 slots, up to 8 outputs		
		Select from	3G SDI Module	1 x BNC
			HDMI Module	1 x HDMI-A
			DVI Module	1 x DVI-I
			DP Module	1 x DP
			HDBaseT Module	1 x RJ45
			Fiber Module	1 x LC
	Sender Module	4 x RJ 45		
PVW Communication	1 slot	PVW Module	1 x HDMI 1 x RJ 45	
		1 x RJ 45	RJ45	
		1 x RS 232	RS 232	
		1 x Genlock Y I	BNC	
		1 x Genlock Loop		
Performance	Power	1 slot	1 x IEC	
		SDI		
	Input Resolutions	SMPTE	480i 576i 720p@50/60 1080i@59.94/60 1080p@23.98/24/25/29.97/30/50/59.94/60 1080ps-f@23.98/24/25/29.97/30 2160p@23.98/24/25/29.97/30/50/59.94/60	
		DVI HDM HDBaseT USB		
		SMPTE	480i 576i 720p@50/59.94/60 1080i@50/59.94/60 1080p@50/59.94/60	
		VESA	800x600@60 1024x768@60 1280x768@60 1280x1024@60 1600x1200@60 1920x1080@60 1920x1200@60 2048x1152@60	
		VGA		
		VESA	800x600@60 1024x768@60 1280x1024@60 1366x768@60 1440x900@60 1600x1200@60 1920x1080@60	
		HDMI 2.0 DP		
		SMPTE	480i 576i 720p@50/59.94/60 1080i@50/59.94/60 1080p@50/59.94/60 2160p@30 2160p@50/60	
		VESA	800x600@60 1024x768@60 1280x768@60 1280x800@60 1280x1024@60 1360x768@60 1366x768@60 1400x900@60 1600x1050@60 1600x1200@60 1680x1050@60 1920x1080@23.98/24/25/29.97/30/50/59.94/60 1920x1200@60 2048x1152@60 2560x812@60 2560x816@60 2560x1600@60 3840x1080@60 3840x2160@23.98/24/25/29.97/30/50/60 4096x2160@60	
		Output Resolutions	Select from standard set or select user configurable	
		SDI		
		SMPTE	480i 576i 720p@50/60 1080i@59.94/60 1080p@23.98/24/25/29.97/30/50/59.94/60 1080ps-f@23.98/24/25/29.97/30 2160p@23.98/24/25/29.97/30/50/59.94/60	
		DVI HDMI HDBaseT USB		
	SMPTE	720p@50/59.94/60 1080p@50/59.94/60		
	VESA	800x600@60 1024x768@60 1280x720@50/59.94/60 1280x800@60 1280x960@60 1280x1024@60 1400x1050@60 1600x1200@60 1920x1080@60 2048x1152@60		
	VGA			
	VESA	800x600@60 1024x768@60 1280x1024@60 1440x900@60 1600x1200@60 1920x1080@60		
	HDMI 2.0 DP			
	SMPTE	720p@25/30/50/60 1080i@59.94/60 1080p@23.98/24/25/29.97/30/50/59.94/60 2160p@60		
	VESA	800x600@60 1024x768@60 1280x768@60 1280x800@60 1280x1024@60 1360x768@60 1366x768@60 1400x900@60 1600x1050@60 1600x1200@60 1680x1050@60 1920x1080@23.98/24/25/29.97/30/50/59.94/60 1920x1200@60 2048x1152@60 2560x812@60 2560x816@60 2560x1600@60 3840x1080@60 3840x2160@23.98/24/25/29.97/30/50/60 4096x2160@60		
	Supported Standard	SDI	3G	
		HDMI	2.0	
		DVI	DUAL DVI	
DisplayPort		1.2		
HDBaseT		1.0		
LED OUT		1000Base-T		
Features	Grey Level	12 bit		
	色空间	4:4:4		
Power	Input Voltage	AC 100V-240V, 50/60Hz		
	Max Power	200W		
Environment	Temperature	0°C – 40°C		
	Humidity	10% - 85%		
Physical	Weight	Nett	12.3kg	
	Dimensions	Packaged	485mm x 387mm x 135mm	

Order Codes

Product Code	Item
710-1008-01-0	8x8/16 Video controller

*Refer to specifications for module options

HDMI® HDCP™

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