D4

4K HDR Scaler & Switcher

RGBlink®

D4

The standard in multi-format 4K presentation switching.

D4 is a very flexible video switching and scaling solution for 4K signals featuring multiple output modes, a comprehensive on board feature set and acclaimed RGBlink modular design.

Truly multi-signal, D4 may be fitted with a wide range of input signals including HDMI 2.0m DisplayPort 1.2 and 12G-SDI along with conventional 2K signals.

In the tradition of previous generation 2K solutions signals can converted, scaled, transcoded to 4K output. Dual channel 4K HDMI 2.0 output are standard while these two channels may be duplicated for output via the option slot to DisplayPort, SDI, HDBaseT and more.

There is full 4:4:4 colour space,12 bit on board processing and support for HDR signals to meet the highest performance standards.

EDID management is built in and D4 is also HDCP 2.X compliant.

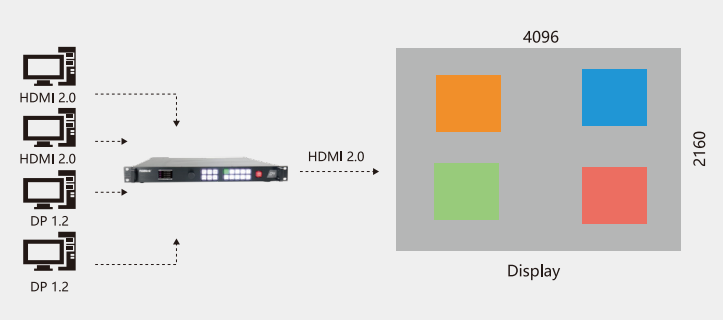
Across a range of applications requiring scan conversion, scaling or seamless presentation switching, D4 is ideal for high performance and broadcast workloads.

Features

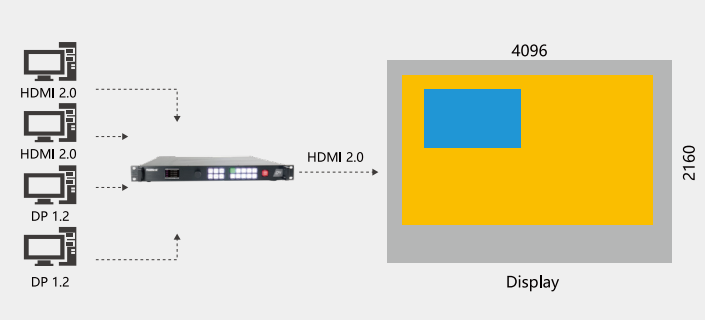
- Resolution 4K2K@60 and 8K1K@60
- Full YUV 4:4:4 Color Space
- 12bit internal processing
- Low latency
- HDMI 2.0, DP1.2 In & Out UHD and HDR compliant
- HDCP 2.X compliant
- 4K EDID Management
- Wide range of SmartSlot™ input and output modules
- H.264 Preview streaming
- Genlock In & Loop
- Multiple 4K input seamless switching
- 4K Picture in Picture (4K PIP)
- Multi-layer presentation switching
- Cut & variable time alpha fade
- Mirror/Flip
- Rotation including 90°,180°, 270°
- Support for multiple device cascade

Standard Mode

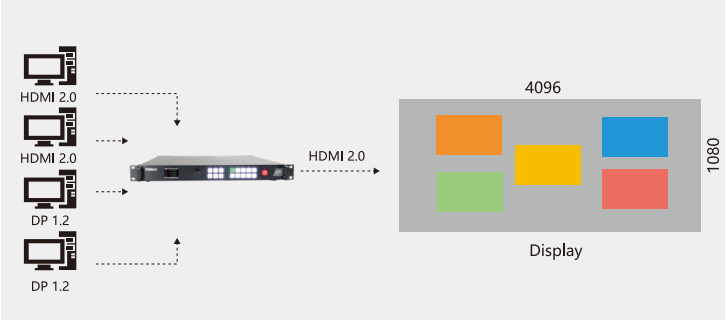
Both output channels are duplicated offering the same output as program and monitor. PIP's are available in this mode with PiP/layer count dependent on output resolution and layer arrangement.



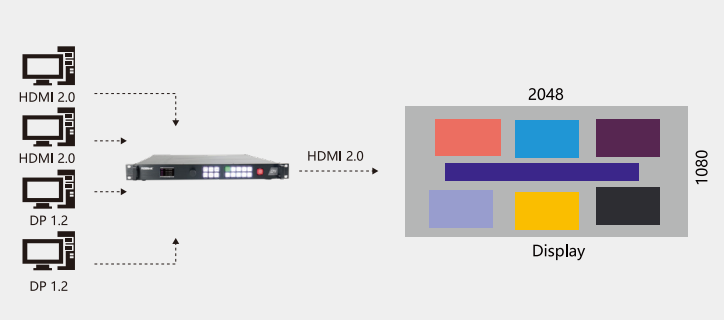
Example: Multiple 4K inputs scaled and displayed as separate PIP's in individual quadrants on a conventional 4K output



Example: 4K input scaled across a 4K output with 4K PIP source overlaid



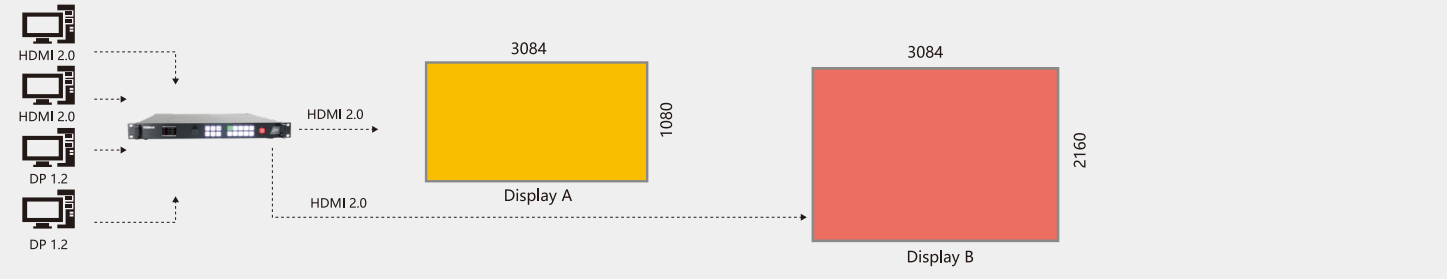
Example: Multiple 4K scaled inputs on a 4Kx1K output



Example: 2Kx1K output with up to five inputs as PIP

Independent (Dual 4K) Mode

Each of output channels separately configured for image, resolution, scale and other attributes



Example: Two separate inputs to two separate outputs, each at different resolution

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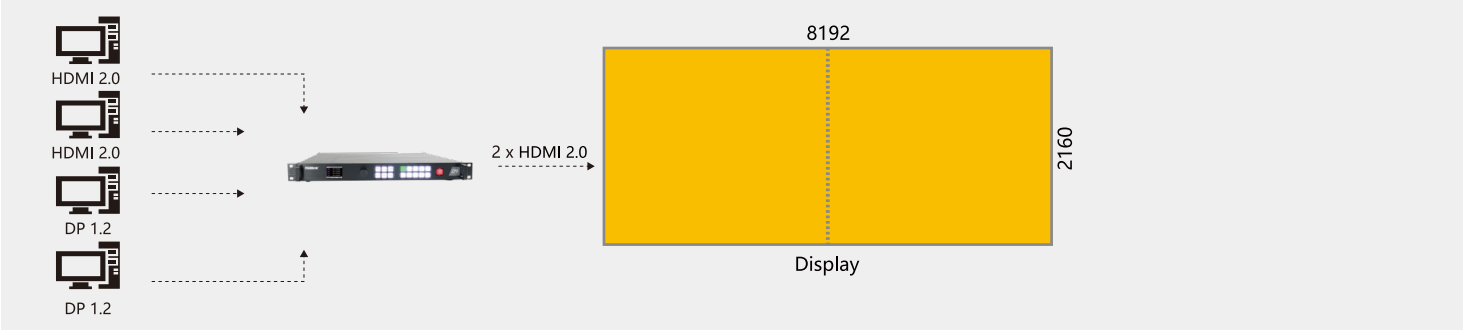
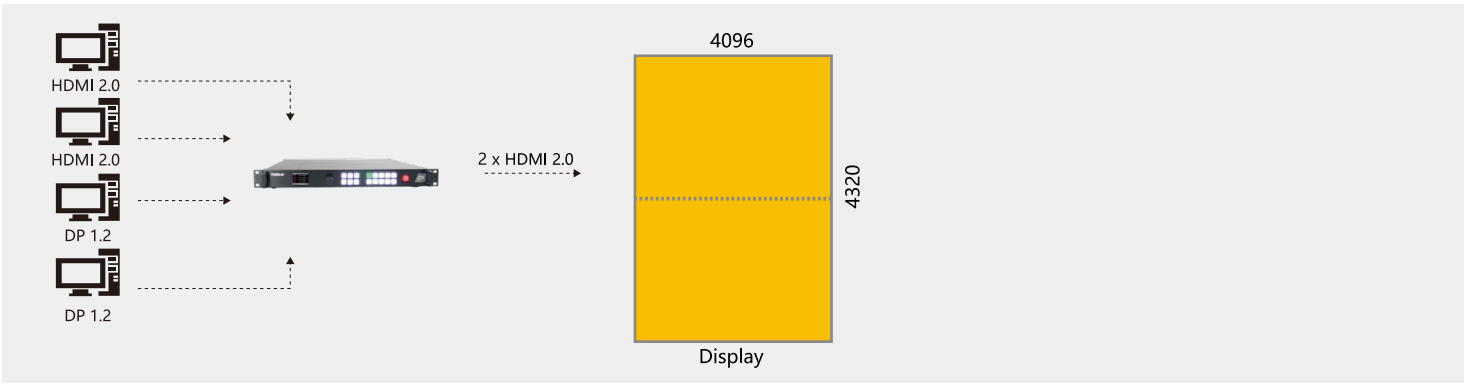
Splicing Mode

Output channels are utilised to stitch or splice input source(s) to create large seamless fully synchronised display surfaces.



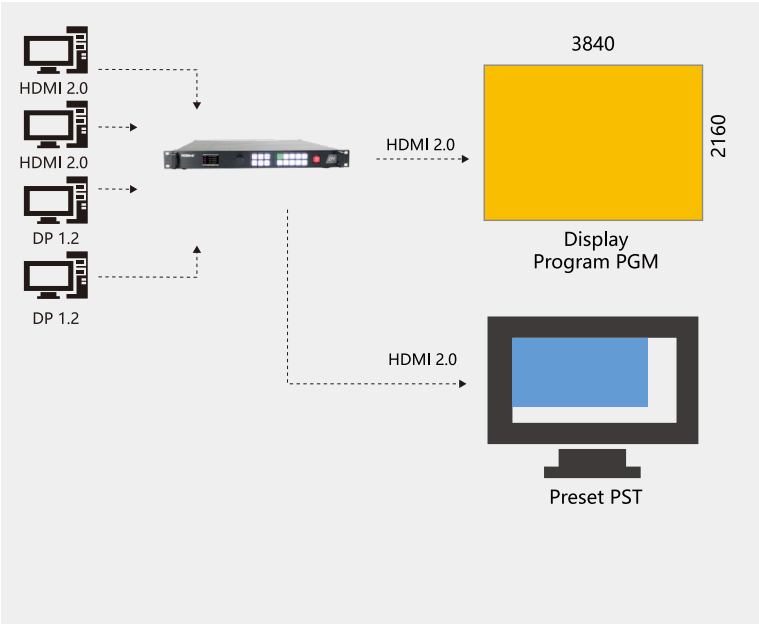
Example: 4K input scaled across 8K x 2K display area using two outputs, forming panoramic or wide screen display

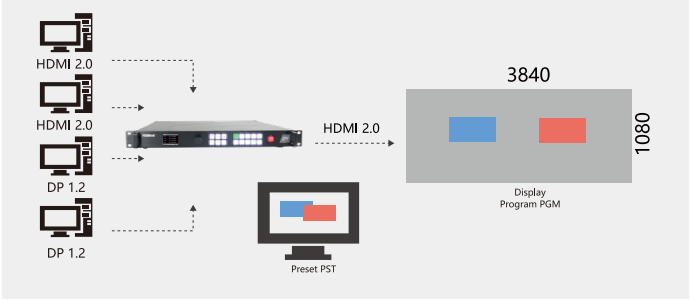


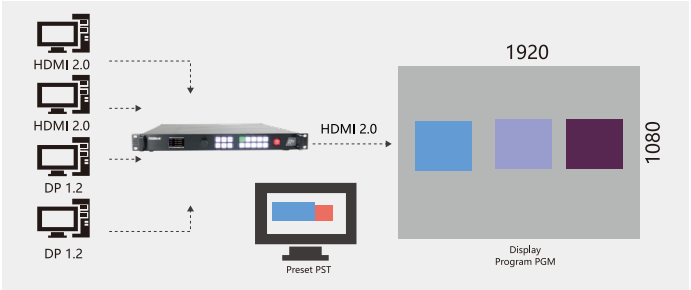
Example: 4K input scaled across 4K x 4K display area using two outputs, forming a seamless portrait display of

Switcher (Preview) Mode

Both outputs are set to the same resolution, whether 2K or 4K, with one channel serving as program (PGM), and the other channel as preset preview (PST) for full seamless alpha switching been preset and programme. All adjustment made on PST prior to switching to live PGM display output.







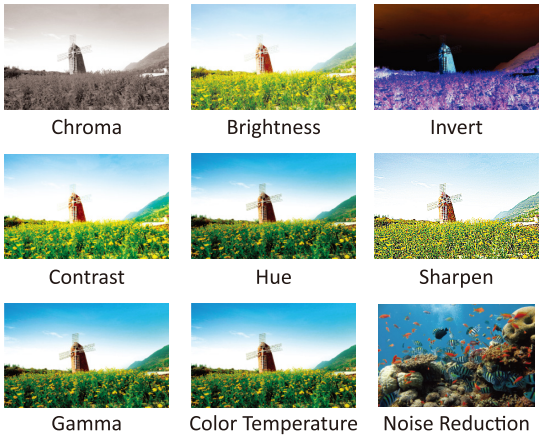
**shown with optional input and output modules – refer specification and options*

HDR

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

Visual Enhancements

Apply a range of visual effects and enhancements with fine grain controls.



Rotation & Flip

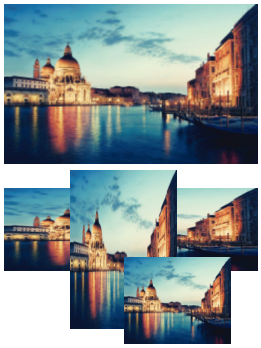
Support image rotation and flip including horizontal and vertical flip/mirror.

Format

D4 accepts all common 2K & 4K input formats, with EDID management built in. Output to any 2K or 4K format with custom resolutions able to be specified to down stream requirements.

Scale

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

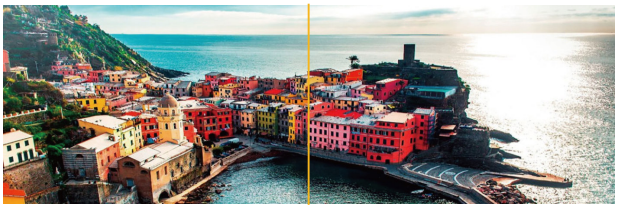


Crop & Position

Select X and Y offsets along with width and height to select any image part for output.

Output Splicing

Split output across the dual output channels providing an 8K x 2K display canvas and seamless pixel to pixel hard edge blend.



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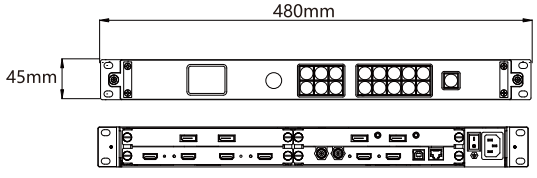
Specifications

Connections	Input	2 slots up to 4 inputs		
		Select from	4K HDMI Module	4xHDMI-A (2 In/2 Loop)
			DisplayPort Module	2xDisplayPort
			12G/3G/HD/SD SDI Module	2xBNC
	Output	2 slots up to 4 outputs		
		Standard with	HDMI 2.0	2xHDMI-A
		Select from	4K HDMI Module	2xHDMI-A
			DisplayPort Module	2xDisplayPort
			12G/3G/HD/SD SDI Module	2xBNC
	Communication		Genlock	2xBNC
			LAN	1xRJ45
			Serial USB In	1xUSB Type B
	Power	1 x IEC		
Performance	Input Resolution	SDI		
		SMPTE	480i | 576i | 720p@25/30/50/60 | 1080i@50/59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 2160p@30/50/60	
		DispalyPort		
		SMPTE	720p@25/30/50/60 | 1080i@50/59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 2160p@30/50/60	
		VESA	1920x1200@60| 2560x1600@60 |3840x2160@23.98/24/25/29.97/30/50/60| 4096x2160@50/60	
		HDMI		
		SMPTE	720p@25/30/50/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 |2160p@30/50/60	
		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@50/60	
	Output Resolution	*Select from below or configure customized*		
		SDI		
		SMPTE	480i | 576i | 720p@25/30/50/60 | 1080i@50/59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 2160p@30/50/60	
		DispalyPort		
		SMPTE	480i| 576i | 720p@25/30/50/60 | 1080i@50/59.94/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 2160p@30/50/60	
		VESA	1920x1200@60 | 2560x1600@60 |3840x2160@23.98/24/25/29.97/30/50/60| 4096x2160@50/60	
		HDMI		
		SMPTE	720p@25/30/50/60 | 1080p@23.98/24/25/29.97/30/50/59.94/60 | 2160p@30/50/60	
		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@50/60	
	Supported Standards	SDI	SMPTE ST 2082-1, SMPTE ST 2081-1, SMPTE ST 424, SMPTE ST 292-1, SMPTE ST 259, DVB-ASI,MADI	
		DisplayPort1.2		
		HDMI 2.0		
Features	Grey Level	12 bit		
	Color space	4:4:4		
	Splicing	8K2K		
	Effects	Noise Reduction | Deinterlace | Sharpness | Gamma		
	Audio	Supported for embedded audio		
	Invert/Mirror	Yes		
	EDID Management	Yes		
Power	Input	AC 90-264VAC, 50/60Hz		
	Max Power	100W		
Environment	Temperature	0℃～45℃		
	Humidity	10%~85%		
Physical	Weight	Net	7.2kg	
		Package	8.5kg	
	Dimension	Net	480mm x 474mm x 45 mm	
		Package	535mm x 530mm x 130mm	

Order Codes

Product Code	Item
120-0004-01-0	D4
191-0004-01-0	Dual DP 1.2 Input Module
191-0004-02-0	Dual HDMI 2.0 Input Module
191-0004-21-0	Dual DP 1.2 Output Module
191-0004-03-0	SDI Input Module
191-0004-22-0	SDI Output Module

Dimensions



HDMI® HDCP™

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