X²⁰

UNIVERSAL VIDEO PROCESSOR

RGBlink®

X20

For large scale video applications, X20 takes hardware-based processing to a whole new level. Ideal for complex applications with diverse signals and resolutions, X20 brings together up to 160 video sources for display across up to a massive 144 outputs in a single robust and modular frame.

4K Native

X20 includes support for common 4K signal types including Dual Link DVI, HDMI and DisplayPort. High resolution signals may be combined with other resolutions to create windows/layers out output display areas.

4K 60

Multi-Layer / Multi-Window

With up to eight layers per output slot, windows may be created for any scale, crop, or position. Windows may overlap others as well extend across outputs while tear-free and maintaining completely in sync.

300 Mega Pixel Canvas

For even the largest displays and display systems, X20 gas the capacity to create and deliver on the most ambitious possibilities. Power multiple displays of 8K, 16K and more.

Remote Control & Configuration

All features of X20 may be accessed from the acclaimed RGBlink XPOSE 2.0 software application that features a rich graphical UI.
Additionally, X20 may also be integrated in BMS or other control systems using UDP, via the RGBlink OpenAPI.

XPOSE 2.0

Hi-Availability Operations

Modularity extends to high performance server-grade power supplies included with X20. For fully power redundant operations, X20 offers slots for secondary power supplies too.

Real Time Data Protection

All current settings are stored in static memory for immediately resumption in the event of recovery from a power loss.

Display Container Management

Create and manage independent output display areas (containers) across multiple outputs, each display area as a virtual pixel space is able to make use of any source and be managed independently from other containers.

Preview Remotely

Configure X20 interactively with source video previews to RGBlink XPOSE control software from dedicated outputs injecting IP video.
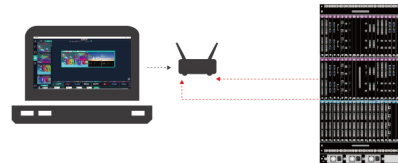
Modular by Design

Combine multiple signal types by fitting input and output modules, select from a wide range of signal types.
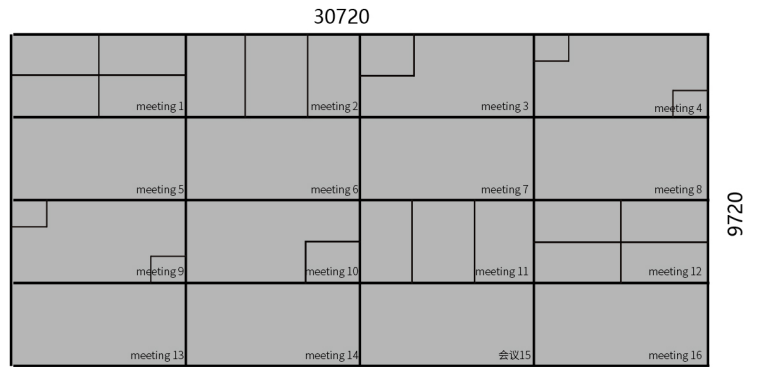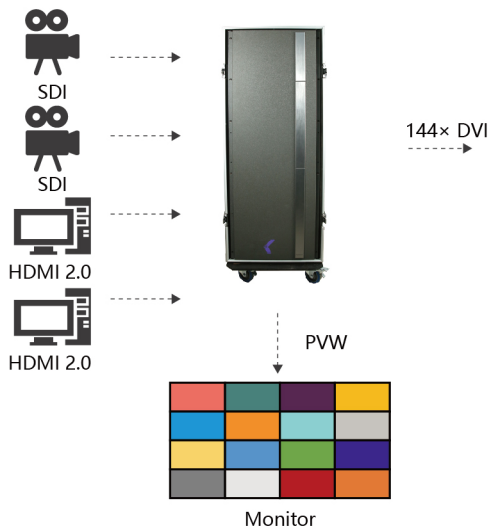
OSD

Apply text, messaging and subtitles using On-Screen-Display of text as overlays as banners or text only. OSD text is stored on board X20 for recall on demand.
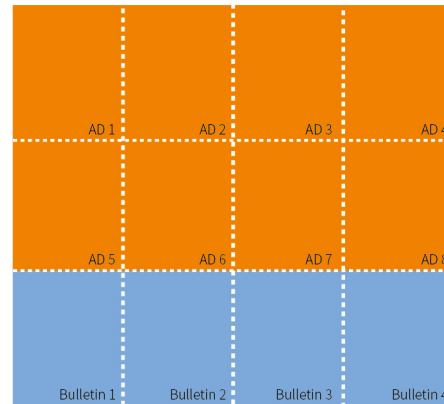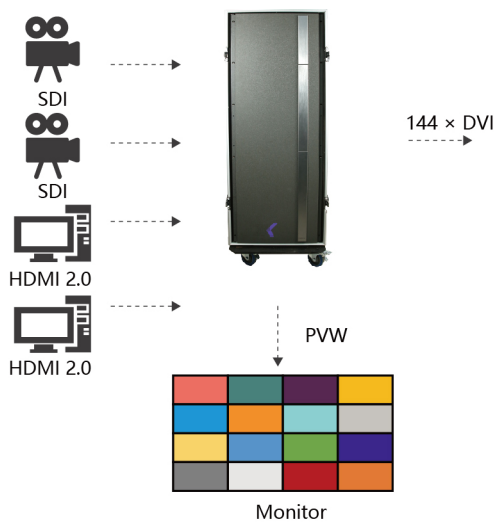
High-Capacity System

X20 card-frame style SmartSlots™ provide for up to 40 input and 36 output modules. The system architecture supports hot-swap of modules with auto-detection of inserted module type.
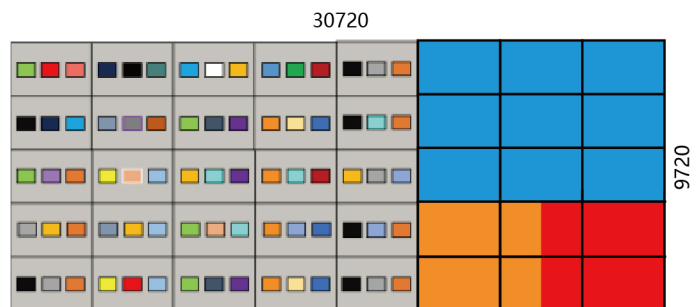
Performance Dashboards & Video Conferencing

SDI

SDI

HDMI 2.0

HDMI 2.0

144× DVI

PVW

Monitor

30720

9720

meeting 1	meeting 2	meeting 3	meeting 4
meeting 5	meeting 6	meeting 7	meeting 8
meeting 9	meeting 10	meeting 11	meeting 12
meeting 13	meeting 14	会议15	meeting 16

OOH Digital Signage Displays & Complete Display Systems

SDI

SDI

HDMI 2.0

HDMI 2.0

144 × DVI

PVW

Monitor

AD 1	AD 2	AD 3	AD 4
AD 5	AD 6	AD 7	AD 8
Bulletin 1	Bulletin 2	Bulletin 3	Bulletin 4

Monitoring & Security Systems

SDI

SDI

HDMI 2.0

HDMI 2.0

144× DVI

PVW

Monitor

30720

9720
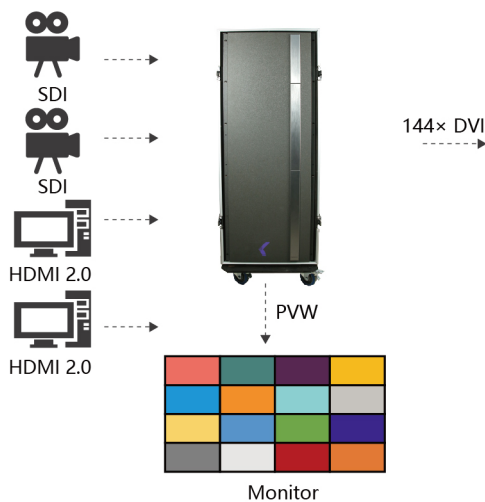
*products pictured with optional modules and accessories. Refer to specifications and guides for details.

Specification

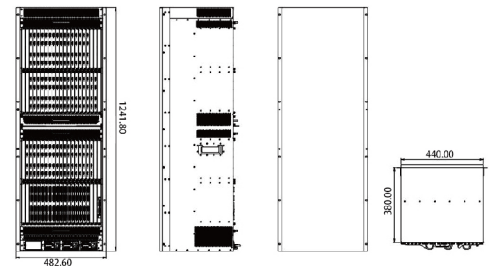|					
Connectors	Input	2-40 slots, support up to 160 inputs			
		Select from	DVI Module	4×DVI-I ((DVI only)	3G SDI Module	8×BNC (4 In|4 Loop)
			4K DVI Module	2×DVI-I ((DVI only)	VGA Module	4×DB15
			HDMI 1.3 Module	4×HDMI-A	2K Fiber Module	4×LC
			HDMI 1.4 Module	2×HDMI-A	4K Fiber Module	2×LC
			HDMI 2.0 Module	1×HDMI-A	2K HDBaseT Module	4 x RJ45
			DisplayPort 1.1 Module	2×DisplayPort	4K HDBaseT Module	2×RJ45
			DisplayPort 1.2 Module	1×DisplayPort		
	Output	2-36 slots, support up to 144 outputs			
		Select from	DVI Module	4× DVI-I (Compatible with VGA)	4K Fiber Module	2×LC
			HDMI 1.3 Module	4×HDMI-A	HDMI 2.0 Module	2×HDMI-A
			HDMI 1.4 Module	2×HDMI-A	HDBaseT Module	4×RJ45
			2K Fiber Module	4×LC		
	Communication		Ethernet	1×RJ45		
	PVW (Preview)	Optional	IP Streaming	4×RJ45		
			HDMI and IP with Audio	1×RJ45 | 2×HDMI-A		
	Power	4 slots, support up to 4 power supply			
		Standard with	2 PSU			

Performance	Input Resolution	SDI	
		SMPTE	720p@60 | 1080i@60 | 1080p@60
		VGA	
		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
		H.265	
			352×288 | 720×480 | 704×576 | 1280×720 | 1920×1080
		DVI | HDBaseT | Fiber	
		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
		HDMI | DP	
		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 | 3840×2160@60 | 3840×2400@60 | 4096×2160@60
	Output Resolution	DVI | HDBaseT	
		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
		Fiber	
		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
		HDMI	
		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 | 3840×2160@60 | 3840×2400@60 | 4096×2160@60

	Support Standards	HDMI	2.0	HDBaseT	2.0
		H.265	ITU-T H.265/ ISO/IEC 23008-2	DisplayPort	1.2
		SDI	3G	DVI	Dual Link
Power	Input Voltage	100V-240V 50/60-Hz automatically adjusted			
	Max Power	262-550W			
Environment	Temperature	0℃～40℃			
	Humidity	10%~85%			
Physical	Weight	Net	7.75-49.2kg		
		Package	115.1kg		
	Dimensions	Net	440mm×386mm×89mm-483mm×380mm×1242mm		
		Package	680mm×550mm×1450mm（MAX)		

Order Codes

Product Code	Item
310-0020-01-0	X20

*Please refer to the specification for module selection

Dimensions

HDMI® HDCP™

RGBlink®

www.rgblink.com