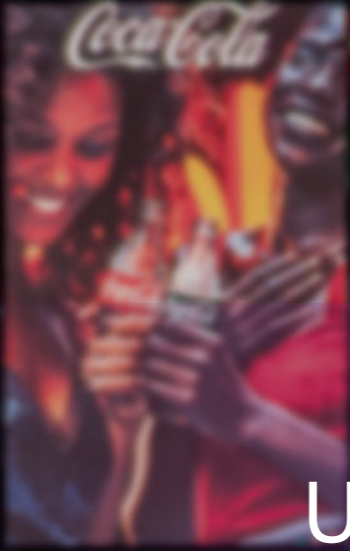




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NOVOTEL



X Series
Universal Processors

IONIQ



UNIVERSAL VIDEO PROCESSOR

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 combined with other resolutions to create windows/layers out output display areas.



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 has 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.

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

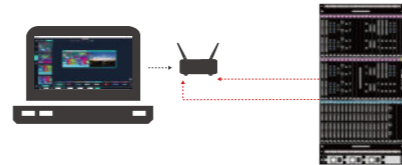
All current settings are stored in static memory for immediately resumption in the event of recovery from a power loss.

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.



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160 Mega Pixel Video Display System

For entire video display systems, X14 brings a new level of efficiency, capability and control. Supporting up to massive 52 inputs and up to 40 outputs, X14 truly brings together large video systems for system-in-box approaches to video presentation and integration.

Modular throughout RGBlink technologies support user fit input and output signals with each slot configurable up to 4K/UHD resolutions at full frame rates. With so many inputs, windowing and layering capabilities are dramatically enhanced with an output canvas of up to 160 mega pixel layer processing.

Dedicated preview functionality is available both remotely via XPOSE and on the inbuilt LCD display with XPOSE embedded directly into the processor for monitoring control capabilities.



Multi Role, Multi Application

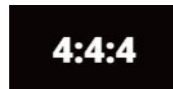
Select the operation mode suitable for the application from continuous video wall mode to presentation mode and routing modes. There is also processing capabilities for 3D and mixed device application.

Modular Design

X14 has 52 input slots which may be configured with universal quad modules. Similarly for output universal quad modules maybe fitted to any of the ten slots for 40 2K output, 10 4K outputs or a combinations of both. A wide range of signal options are available including digital input and output modules, SDI up to 12G and conventional signal types.

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.



HDR Support

Process and scale High Dynamic Range signals with selected modules retaining full gamut.



Preview on Board

The integrated LCD display allows live source and output video monitoring as well as signal status

Local Controls

Use the built-in touch screen to not only monitor an X14, but also control selected features and operations directly from the device.

Streaming Preview

Manage, operate and monitor with live source previews streamed directly into RGBlink XPOSE

4K / UHD Support

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



Video Over IP

X14 includes options for video over ethernet standards including HDBaseT modules allowing direct connection to displays without conversion.

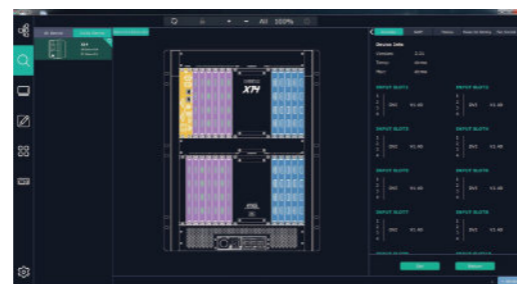
Rotate & Flip

Rotate outputs in 90deg increments, flip, invert. X14 also supports RGBlink ARO™ modules for advanced 1 degree rotation and edge



Chroma Key/DSK

Apply a key from presets or specify to requirement for foreground keying against the background layer.

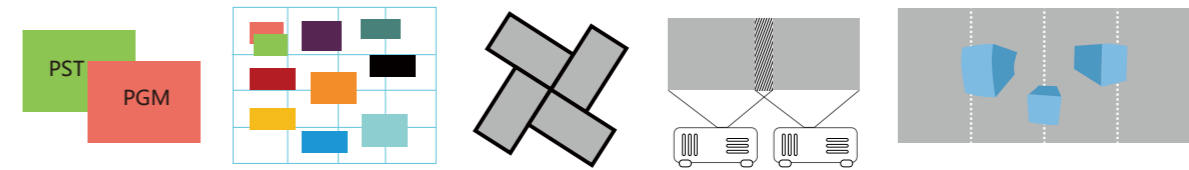


Connect & Control

Unleash powerful onboard capabilities with remote configuration and control via RGBlink XPOSE or BMS controllers with RGBlink OpenAPI

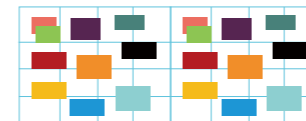
Video Display as a System

X14 is unique adaptable to multi-role systems with the capacity for both a large number of inputs and outputs. The range of user-fit modules allows X14 to be customised on demand and brings together usually diverse display solutions as a signal system reducing complexity, reducing the need for ancillary equipment and enhancing overall system performance. Multiple operation modes allow X14 to be deployed in a wide range of applications.



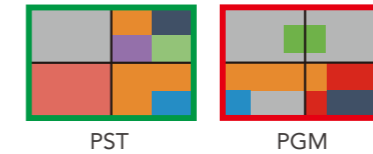
Stich & Splice Video Walls

Seamlessly, in complete sync, display video across a display canvas of multiple outputs



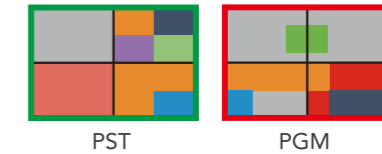
Presentations with Confidence

Make use of system modes with full active PST and PGM operations



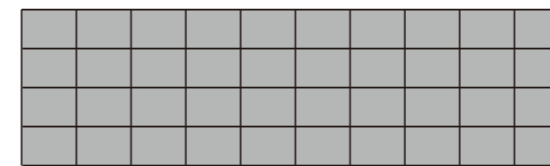
Deliver in 3D

Process 3D signals for display across large pixel spaces over multiple outputs



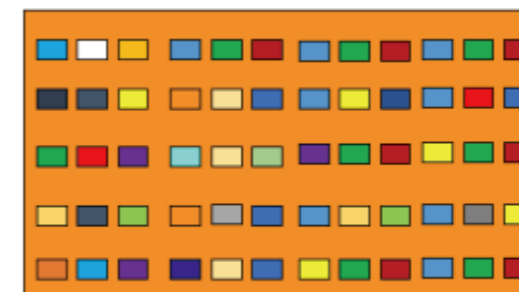
160 Mega Pixel Display Area

Arrange outputs on a virtual canvas to create very large display surfaces with 2K and/or 4K components or build multi-display systems synchronised or as independent display containers.



Windowing & Video Layers

Display up to 160 video layers from any combinations of signals or sources. All video presented to output is fully synchronised and converted for output across the output channels.



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Redefining 8K Video Processing

Industry leading X series video processing platform takes a massive step into the 8K future with X8. Designed and built for demanding high performance where 4K is the norm, X8 provides unparalleled multi-signal compositing, sync and switching with low latency while maintaining and enhancing visual fidelity.



· **Up to 48 4K Layers**

Take advantage of powerful multiple 4K layers – output up to 48 scaled layers/windows on a fully configured system across 12 4K outputs, with up to eight 4K layers on any output port.

· **8K Source Management**

Splice 4K inputs and outputs for 8K operations fully in sync tear and glitch free, retaining the rich visual content even when scaled.

· **Seamless 4K & 8K Switching**

Open, switch and transition video layers seamlessly with full sync even across multiple outputs. Transition between multi-signal, multi-scene presets, and PIP over background layers, bringing together 4K and spliced 8K sources on demand.

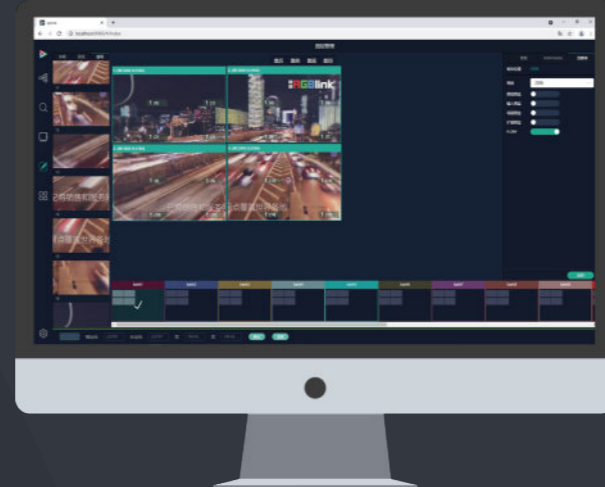
· **Full Color Space**

Process high resolution video without compression or loss. X8 is 4:4:4 native with wide bandwidth in device to process high quality video without compromise. Up-sampling of 4:2:0 and 4:2:2 content to 4:4:4 is also supported

● **Live Virtual Control**

RGBlink XPOSE 2.0 provides an industry, intuitive to use configuration and control platform for advanced RGBlink processors including X8.

Signals can be previewed live, multiple display system containers built, presets created and managed. Playback facilities include live and broadcast style as well as scheduled timeline-based options and more.



· **Seamless Synchronization**

RGBlink technologies ensure high performance very low latency hardware-based video processing. Synchronization and delivery of signals of any resolution across multiple outputs is tear-free and scaled pixel-to-pixel.

· **Build for Integration**

Leverage RGBlink OpenAPI to connect from almost any platform, allowing integration capabilities that go way beyond simply triggering presets or scenes.

· **Powerful Display Systems Controls**

Unlock unique and extensive device capabilities with the RGBlink XPOSE 2.0 control platform built right into X8 and accessible via a web browser. Create entire display systems comprised of not only multiple resolution displays but also displays of any format or type.

· **Native IP Streaming**

Stream H.264 video sources via the LAN port providing live previews in browser connected XPOSE 2.0 configurations, presets and playlists.



· **Lower TCO**

Fit modules and components to the X8 system without unneeded overhead or bloat. Hot swap and exchange input and output modules without powering down the overall system. The modular design enables higher up times, ease of maintenance, and operational efficiencies.

· **World Leading Development**

RGBlink designs, develops and manufactures in house, with unique capabilities and draws from the extensive RGBlink IP pipeline and experience in creating the advanced capabilities in the X8 processing platform.

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High Performance Backplane

Maintaining full 4K60 4:4:4 for all signals, the X8 backplane and cross-point offers extreme bandwidth to ensure pixel perfect delivery at every resolution and format.

Genlock Sync

Synchronise and Genlock to other devices in a video system, with X8 accepting BlackBurst in.

Configurable Preview

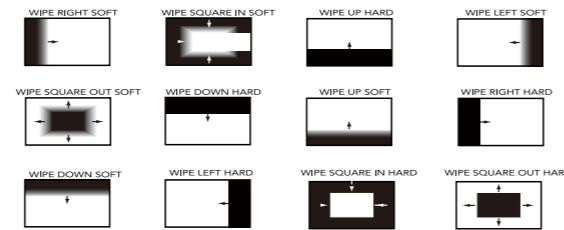
The dedicated HDMI is configurable for up to 64 windows for the ultimate in local monitoring capability.

Extreme Resolutions

X8 supports 8K multi-cable ultra-high resolution sources in conventional and panoramic configurations, as well as standard 4K and 2K signal formats. For display, configure ultra large displays across multiple 4K outputs using multiple video layers

Seamless Video Switching

All switching is seamless with no black frames and is glitch/tear free across multiple outputs. Switch between presets with fades and cuts, as well as using transition effects.



Audio Support

Select embedded audio from any source for re-embedded to any display output.

Low Latency Cross Conversion

With the best up-down processing engine in the industry, RGBlink offers the widest signal support capabilities and supports unique custom configured resolutions allowing even more video to be controlled, synchronised and delivered to any display.

Quality without Compromise

Maintain the highest fidelity of source signals without compression or loss with 4:4:4 YUV/RGB colour space.

Manage video chroma sub-sampling and up-sampling of 4:2:0 and 4:2:2 sources for maximum flexibility.



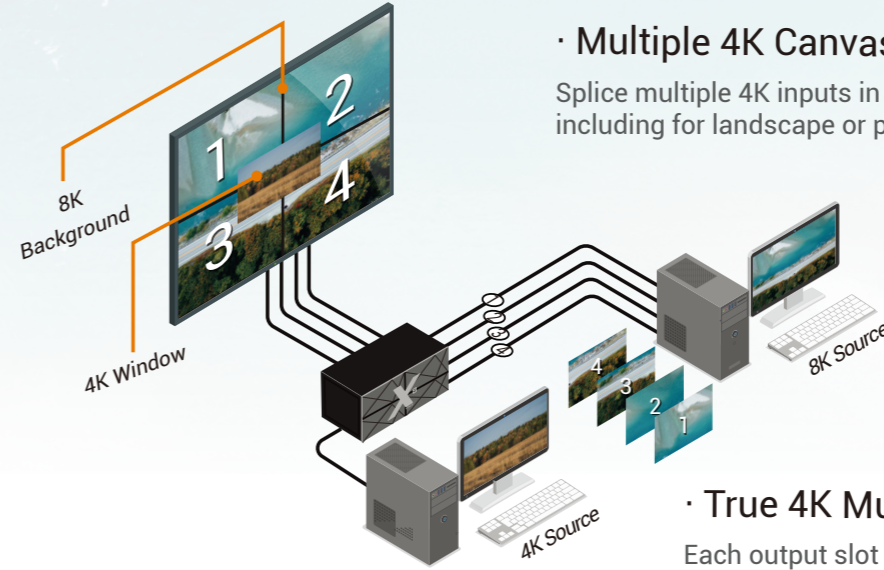
8K Workflow Support

Manage multiple 8K sources and output displays combining with other content as needed.

Multiple 4K Canvas

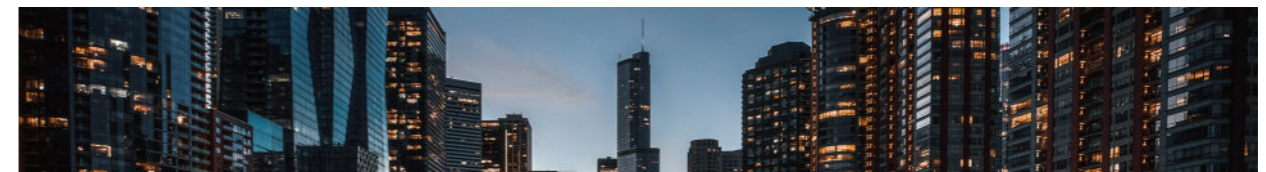
Splice multiple 4K inputs in any configuration including for landscape or panoramic arrangements.

RGBlink X8



True 4K Multi-Layer Windowing

Each output slot in X8 supports eight 4K60 layers which maybe assigned freely across outputs, including as eight 4K layers on single 4K output.



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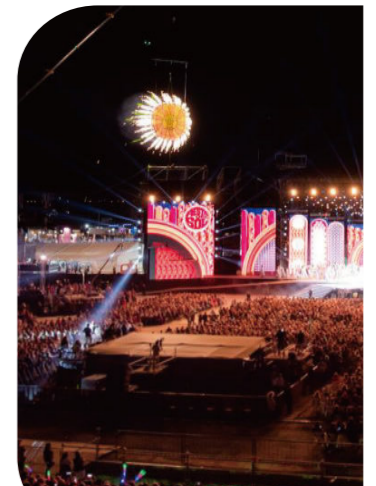
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Flexible Canvas Assignment

The ultimate in flexibility, create layouts in pixel space canvas, mapping sources as layers across positioned displays.

Save and recall layouts and presets on demand for visually engaging experiences powered at the edge with RGBlink X8.



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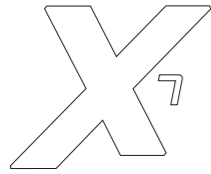


X₇

Large scale video wall processing

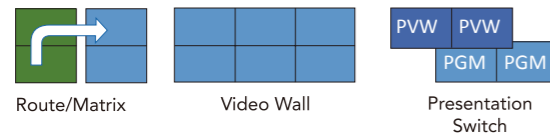
Bring together entire video display systems with X7. With up to 32 outputs and a 64 mega pixel capacity, X7 is equally at home delivering fully synchronised video to large video walls or multiple video walls and creative displays of all types.

X7 is a true multi-window / multi-layer video wall solution. Connect and configure input sources just once while routing, scaling positioning and presenting across multiple outputs or display areas.



Multi-Mode Operations

X7 outputs can be configured in one or multiple modes, with pixel space allocated to each mode as a virtual container. Operation modes include Matrix, Video Wall, Presentation, 3D, Rotation and Blending.



Configure Outputs

Set the output resolution and scale to multiple display sizes, take advantage of outputs arranged in multiple container/display areas for flexible multi-display use.

Modular by Design

All X7 inputs and outputs are modular and hot swappable. Arranged in slots, each slot supporting a 4K signal or four 2K signals. A wide range of signal options available allowing native connections.

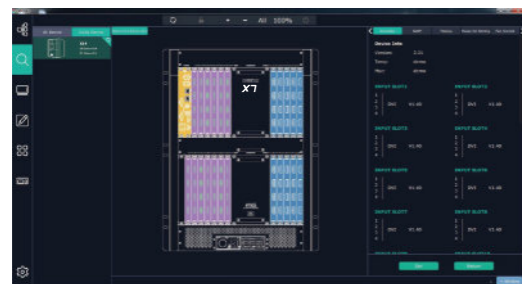
LOGO/Frame Capture

Capture a frame and store on board for recall on demand, including for use as fallback.

Remote Control

Control X7 from RGBlink XPOSE, XPOSE mobile or T Series consoles. For integrators, control via RGBlink OpenAPI is also available.

The XPOSE control platform provides intuitive rich controls unlocking and enabling powerful video control scenarios on the X7 hardware processing platform.



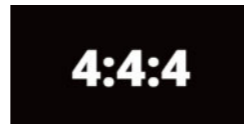
UHD 4K 60Hz Signal Support

RGBlink 4K input and output modules may be used with X7. 4K@60 Digital inputs include HDMI 2.0 and DisplayPort 1.2, and 12G SDI is also available. 4K @60 outputs include HDMI 2.0 and 12G SDI. X7 supports HDCP 2.2.



Full Color Space

Internal high bandwidth processing maximises quality and with 4:4:4 color space support.



H.264 video stream

Stream video input sources via dedicated H.264 ports. Display source previews in XPOSE or video players. Customise port configurations to suit the application.



Rotate with Precision

Fit ARO™ Advanced Rotation Output modules to orient video in support of physically rotated and creativity arranged displays. ARO outputs may be rotated in 1-degree increments and positioned in pixel space. Use zoom to support display of differing density.

Synchronise

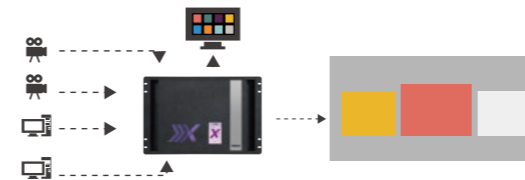
X7 includes both GenLock and HDMI Digital Reference inputs, allowing a variety of synchronisation scenarios.

Preview Sources

Install up to four PVW source preview modules in any of the X7's output slots to stream video sources to XPOSE or third-party clients. Connect the display via DVI for local multi-view source monitoring.

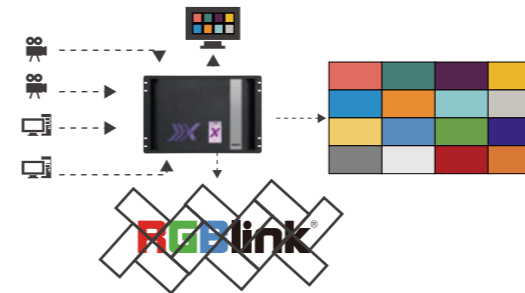
Presentation Switching

Preview presets (PST) and TAKE to PGM in broadcast style with controller of choice.



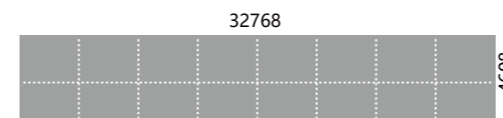
Creative Displays

With RGBlink ARO modules fitted, map video across displays arranged physically on a virtual canvas or pixel space



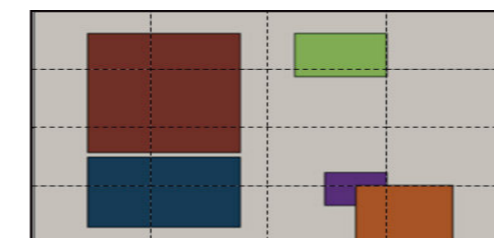
128 Mega Pixel Splicing

Fit up to 32 2k or 16 4k outputs to create continuous video walls in any arrangement with all video fully synchronised to the outputs, pixel-to-pixel. Use with displays including LED, LCD and projection.



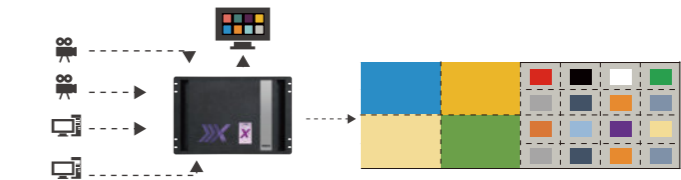
Multi-Layer | Multi-Window

Output video layers or windows scaled and positioned across one or more outputs. A fully configured X7 can support up to 64 layers (or 256 layers if all outputs are H.264 modules).



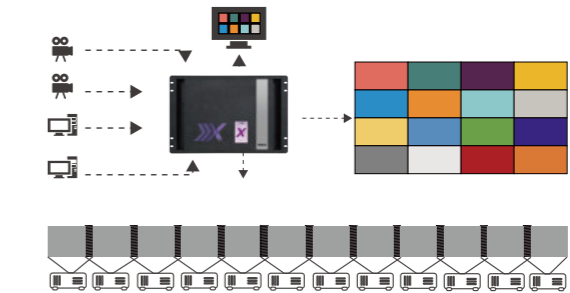
Video Wall Display & Control

Create and display a seamless stitched video wall with continuous or dynamic content.



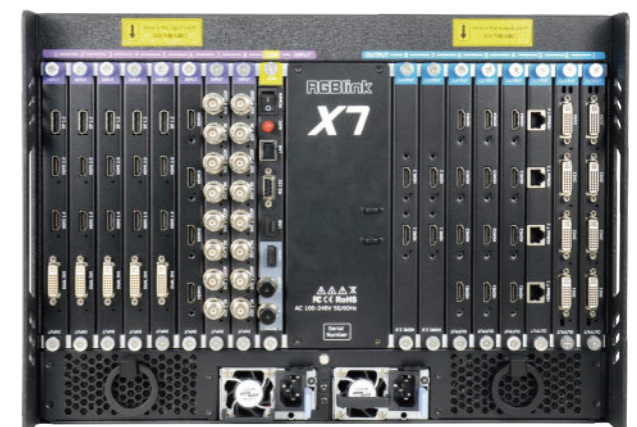
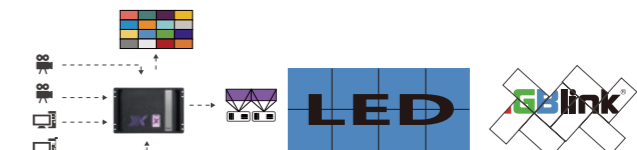
Large Scale Projection

Blend video from the X7 with RGBlink ARO to projection displays arranged in almost any configuration.



Host & Manage Display Systems

Bring together displays with a single video processor controller with coordinated or independent control and efficient single source processing.



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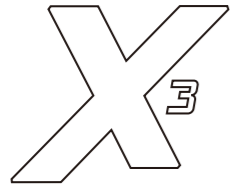
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High performance video wall processing

X3 universal processors are 16x8 scalable videowall control solutions that are dynamically configurable to meet the demands of high-resolution modern displays. The high performance 12bit 4:4:4 processing engine delivers video scaled pixel-to-pixel to multiple outputs that are seamlessly spliced and fully synchronised. A dedicated, high-speed video/graphic but maintains real-time performance even regardless of the signal load or type.





Multi-Layer | Multi-Window

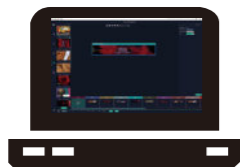
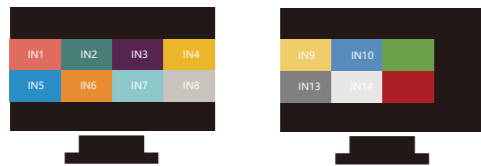
Output video from multiple sources as layers or windows scaled and positioned across the output pixel space.

Multi-Mode Operations

X3 outputs can be configured for a range of operation modes including Matrix, Video Wall, Presentation, 3D, Rotation and Blending.

Preview Sources

Fit up to two PVW source preview modules to the dedicated slot on an X3p to stream video sources to XPOSE or 3rd party clients. Connect a display via DVI for a local multi-view source monitoring.



Remote Control

Control from RGBlink XPOSE, XPOSE mobile or T Series consoles. RGBlink OpenAPI allows X3 to be integrated and controlled from almost any system.



UHD 4K 60Hz Signal Support

Select input and output modules for 4K60 signals – options include HDMI 2.0, DisplayPort 1,2 and 12G-SDI



Configure Outputs

Set the output resolution and scale to present video pixel-to-pixel on displays of all sizes.

Modular by Design

All inputs and outputs on the X3 & X3p are modular and hot swappable. Arranged in slots, each slot supporting a 4K signal or four 2K signals. A wide range of signal options available allowing native connections.

LOGO/Frame Capture

Capture a frame and store on board for recall on demand, including for use as fallback.

OSD

Overlay text in almost any font and style, with or without key. On Screen Display text is stored on board.

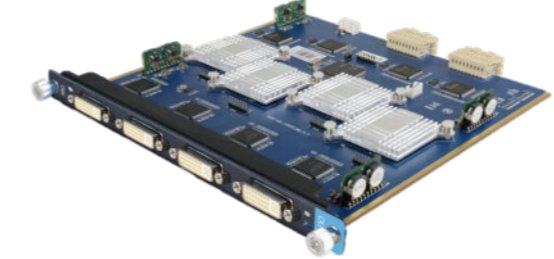
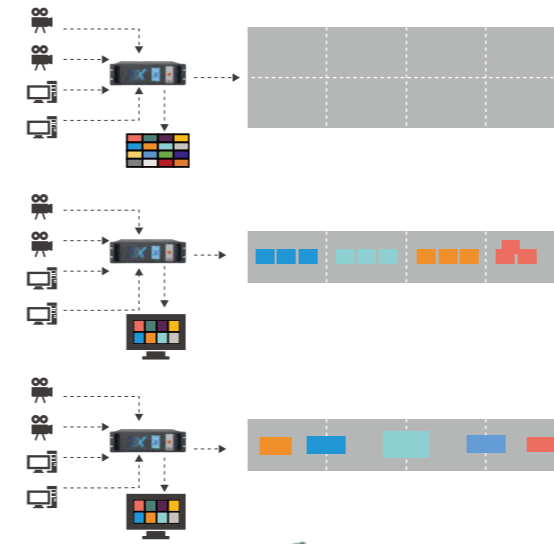
DSK / Chroma Key

Remove a background from a foreground layer using a preset or manually select color values.



Video Wall Display & Control

Create and display a seamless stitched video wall with continuous or dynamic content.



Rotate with Precision

In addition to 90-degree rotation and Fit ARO™ Advanced Rotation Output modules to orient video in support of physically rotated and creativity arranged displays. ARO outputs may be rotated in 1-degree increments and positioned in pixel space. Use zoom to support display of differing density.

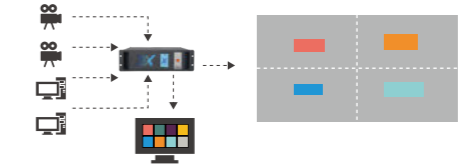
Synchronise

Genlock and HDMI digital reference inputs are provided, allowing synchronisation with other devices in the system



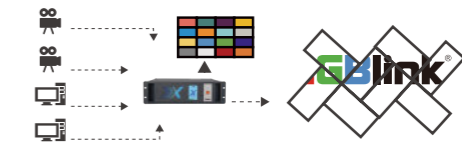
Presentation Switching

Preview presets (PST) and TAKE to PGM in broadcast style with controller of choice



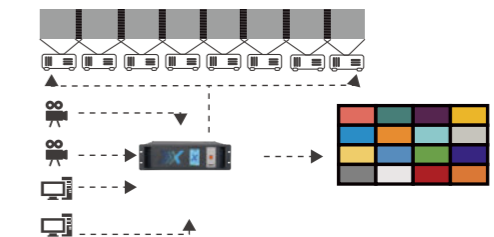
Creative Displays

With RGBlink ARO modules fitted, map video across displays arranged physically on a virtual canvas or pixel space



Large Scale Projection

Blend video from the X7 with RGBlink ARO to projection displays arranged in almost any configuration.



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- Subito Series LED Control Solutions

- RMS Series Monitoring Solutions

- MSP Series Video Tools/Extenders/Signal Converters/Signal Distributors

- Accessories

- Software

- Reference

- Contact