2019 CATALOGUE
LEADING INNOVATOR AND MANUFACTURER OF VIDEO PROCESSING TECHNOLOGIES

WHY RGBLINK

LEADING INNOVATION
All Research & Development carried out in house.
Creative solutions to real-world problems
Standards based approach
Member of recognised industry groups
World leading high quality, high performance video processing.

DESIGN & MANUFACTURE
Scalers
Seamless Switches
Matrixes
Video Wall Controllers
Vision Mixers
LED Display Controllers
Signal Converters

VIDEO FOR THE WORLD
Broadcast
Entertainment
Control Rooms
Conference Rooms
Digital Signage & OOH Advertising

GLOBAL PRESENCE
Growing world-wide distribution network
See RGBlink at all major industry trade events.
Products in wide adoption in mission critical applications around the world.

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01  D Series
    Digital Processors

19  X Series
    Universal Processors

45  M Series
    Mixing & Scaling

63  FLEXpro Series
    Videowall Control

73  FLEX Series
    Mixed Signal Matrix

77  X1 & C1 Series
    Switcher/Scalers

87  T Series
    Control Consoles

91  LED Series
    LED Control Solutions

103 UMS Series
    Media Solutions

107 RMS Series
    Monitoring Solutions
D Series
Digital Processors
For high performance 4K video end-to-end, D6 delivers

Modern presentations demand 4K at refresh rates supporting digital media. D6 builds on the tradition of its broadcast quality predecessors and RGBlink innovations while adding new and enhanced features.

RGBlink modular slots are utilised throughout for the ultimate in flexibility and configurability, with each slot supporting 4K 60fps and signal options including HDMI, DisplayPort and 12G SDI as well as conventional 2K signal options.

D6 has RGBlink XPOSE built right in for interactive and visual configuration in conjunction with the large integrated LCD display. Preview not only directly on board, but also from the dedicated PVW multi-view output.
**D6**

**Modular Design**
D6 has four input and four output slots with each slot supporting up to 4K@60. A wide range of options are available including a digital input module with HDMI 2.0 and DisplayPort 1.2, a 12G-SDI module that supports multiple 3G-SDI inputs too.

**Multi-Mode Operations**
Select the operation mode suitable for the application from conventional Preview mode with seamless alpha cross fades, to Presentation Modes for the maximum layers and seamlessly fade-in-fade-out mixing, and videowall splicing modes. A range of presets allow quick and easy configuration to requirement.

**HDR Support**
Signals with High Dynamic Range are supported for processing via the processor with D6 having a high bandwidth 60Gbps backplane and wide gamut 12bit grey level processing.

**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.

**Multi Layers Switching & Scaling**
At the heart of presentation switching is true seamless switching of mixed signal types and resolutions. D6 scales and synchronises all video sources for output, and for switching operations seamless switches between preset and program. RGBlink pixel-to-pixel scaling engine presents pixel perfect video to non-native or creative displays as well as providing the multi-PiP/layer/window capabilities.
**Background Video**
Select a source to be a background for the program output. Background is converted and scaled automatically to the full output resolution. Background video is ideal for Presentation Mode where many layers are utilised offering a canvas for fade-out-fade-in to occur against for maximum effect.

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

**Dedicated Multi-View Preview**
A built-in preview feature allows review and configuration of video presets before TAKE to program. The multi-view is automatically configured for operation mode. Preview may be monitored from the front panel or viewed externally via the 2K preview output port independent of program output resolutions.

**Connect and Control**
Remotely configure and control D6 from XPOSE on Windows or macOS and via LAN or USB. RGBlink T Series control consoles may also be used for remote control, and for integrators RGBlink OpenAPI offers even further possibilities.

**Chroma Key/DSK**
Apply a key from presets or specify to requirement for foreground keying against the background layer.

**Image Enhancement**
A full range of image enhancement controls are available on board including Noise Reduction, Gamma control, Hue, Tone, Color Temperature and more.

**Low Latency**
Full hardware based video processing offers industry leading low cost latency across the processor.

**Control Local and Remote**
The D6 front panel features large tactile and individually illuminated buttons as well as integral display. Uniquely the D6 front panel can be removed either for security or located and connected remotely increasing operational flexibility.
4K2K Preview/Switcher Mode
Seamless switcher mode with alpha cross fade between presets. Support for scaled background and up to four foreground layers (two layers per 4K1K pixel space).

Example: 4K HDMI as 8K1K background video display. Other sources utilised as auxiliary (AUX) displays for relay or iMag.

Example: 4K background video display. Two foreground layers (as 2 layers each bridging 1K vertical), switched seamlessly, AUX relay outputs.

4K2K Presentation Mode
Video scaling and conversion takes advantage of the RGBlink full 4:4:4 in hardware processing engine for the maximum visual performance.

Example: 4K HDMI as 4K background video display. Five sources arranged as foreground layers (using six layers), Seamless fade-out-fade-in switching against background. Auxiliary (AUX) for relay or iMag.

Example: 4K background video. Foreground layer (as 2 layers bridging 1K vertical) Seamlessly fade-out-fade-in switching. AUX relay/iMag outputs.
8K1K Presentation Mode
Configures a 4K output module as 8K1K with each of the two outputs on the module each with 4K1K. Utilise a 8K1K background with up to eight foreground scaled layer/windows with layer modules fitted. Switch between presets with fade-in-fade-out of foreground layers.

Example: 4K HDMI as 4K background video display. Other sources utilised as auxiliary (AUX) displays for relay or iMag.

Split/Videowall Mode
Create large scale video walls with 4K signals split and spliced up to 16K. Fit D6 with four 4K output modules.

Example: 4K HDMI as 16K display.

Example: Four 4K sources distributed evenly across 16K output.

Example: Four 4K sources scaled across 16K output canvas.

Example: Two 4K signals each as 4K1K background video display with foreground layers as layers/PPPs. Layers switched seamlessly with fade-out-fade-in to background. Other sources utilised as auxiliary (AUX) displays for relay or iMag.
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 2.0 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 2.0 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 Y In

- Multiple 4K input seamless switching
- 4K Picture in Picture (4KPIP)
- Multi-layer presentation switching
- Cut & variable time alpha fade
- Mirror/Flip
- Rotation including 90°, 180°, 270°
- Support for multiple device cascade
**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.

- Chroma
- Brightness
- Invert
- Contrast
- Hue
- Sharpen
- Gamma
- Color Temperature
- Noise Reduction

**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.

**Rotation & Flip**
Output may be rotated in 90 degree increments, or flipped/mirrored horizontally or vertically.

**Output Splicing**
Split output across the dual output channels providing an 8K x 2K display canvas and seamless pixel to pixel hard edge blend.
**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 (Dual4K) 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.
**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.

**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 between preset and programme. All adjustment made on PST prior to switching to live PGM display output.
VSP 628PRO

Standard in 2K presentation switching

VSP628pro is the standard in 2K presentation switching, with unrivalled features and performance. VSP628pro is sophisticated yet easy to use. With multiple output modes, this video processor is a very flexible solution across a range of applications whether for scaling, presentation switching, 2K and 4K distribution or broadcast.

True two channel design enables this power with five operation modes - Standard (PIP) mode, Switcher mode, Dual 2K mode, Split mode and MinDelay - Truly an All-in-One solution, VSP628pro accepts a wide range of input signals in a huge array of formats. Inputs can be converted, scaled, transcoded to standard DV/HDMI outputs or output to optional ports including 3G-SDI, HDBaseT and FiberPort.

VSP628pro packs in a host of professional features including broadcasting Genlock and EDID management as standard. For superior visual performance, on board processing is 12bit allow fine control for Noise Reduction, Brightness, Contrast, and Saturation from the RGBlink rendering engine.

Stand-out RGBlink modularity features further add to flexibility with a range of input options including additional 3G-SDI ports (there are already two 3G-SDI), and USB direct media amongst the popular choices.

VSP628pro supports output of modern 2K high resolution standards up to 2560x816@60Hz. In addition to a wide range of standard output resolutions, VSP628pro offers entirely user customisable output resolutions for the ultimate in control.
Multi Mode Operations

Switcher Mode
The DVI performs as Program (PGM) while the HDMI operates as Preview (PST). Resolution settings are identical for both the DVI and HDMI. Input selection is made on Preview along with pixel-to-pixel scaling. Use the dedicated TAKE button to seamlessly switch between PST and PGM.

<table>
<thead>
<tr>
<th>CHNL A [PST]</th>
<th>CHNL B [PGM]</th>
</tr>
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Standard Mode
Both the DVI and HDMI output identical signals and resolutions – the HDMI performing as monitor. PIP in can be set in any size or position as can the primary layer.

|--------------|--------------|

<table>
<thead>
<tr>
<th>CHNL B [PGM]</th>
<th>CHNL B [PGM]</th>
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Split Mode
Provides a wizard style interface, allowing distribution of a source across the two output channels, and even supporting cascaded split across multiple processors.

|--------------|--------------|

Min Delay Mode
Input is scaled directly to output resolution, bypassing the pixel-to-pixel scaling engine and enhancements with less than 1 frame delay. Ideal for resolution switching applications.

|--------------|--------------|

Genlock
Genlock Y in is included enabling synchronised operations across connected video devices.

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<tr>
<th>CHNL A</th>
<th>CHNL B</th>
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EDID Management
Each compatible input can be individually configured for EDID with read and save operations.
Position, Scale, Crop & Zoom
The foreground layers (or PIP’s) can be positioned, scaled pixel-by-pixel, cropped and zoomed freely.

Visual Effects
Apply a range of built-in visual effects and enhancements. Including Chroma, Brightness, Contrast, Gamma, Colour Temperature, Inversion, Sharpness and Noise Reduction.

Format
VSP628pro supports all common formats up to 2560x1600 @ 60Hz. Additionally VSP628pro allows users to specify any custom output resolution within this range.

DSK/Chroma Key
On PIP, DSK or a Chroma Key can be applied, ideal for logos, overlays or masking.

Output Expansion
The output slot supports either a standard LED Sender Card (which can then be controlled directly from on board VSP628pro) or an output option – either the two channel SDI module or single channel SDI/Fiber/HDBaseT module.

Expand Inputs
VSP628pro has an input slot, with a wide range of options available including SDI, HDMI, DVI, VGA, CVBS, USB media as well as 4K for DisplayPort/HDMI.

Connect and Control
Remotely configure and control VSP628pro from XPOSE on Windows or macOS via LAN or USB. Install the app for iOS or Android to for even more convenient portable control.
X Series
Universal Processors
80 Mega Pixel Multi-Window Video Display Processing. When size matters.

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 have been dramatically enhanced over earlier models and the output canvas is up to 80 Mega pixels. Dedicated preview functionality is available both remotely via XPOSE and on the inbuilt LCD display. XPOSE is embedded directly into X14 too, providing not just monitoring but extensive control capabilities. X14 takes advanced video processing and scaling to a whole new level.
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.

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.

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.

Preview On Board

With a dedicated integrated LCD display for preview, sources and output video can be shown directly from the front panel, providing monitoring beyond simply signal status.

HDR Support

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

Local XPOSE® Controls

RGBlink XPOSE is built right in, and with a touch screen interface a wide set of functionality can be undertaken without the need to connect external control. Features including preset switching and systems settings are available.
80 Mega Pixel Capacity
Arrange outputs on a virtual canvas to create very large display surfaces or multiple display arranged as completed synchronised system all at high 60Hz digital refresh.

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.

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

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

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

Connect and Control
Unleash powerful X14 capabilities with remote configuration and control via the XPOSE platform. XPOSE embedded available on board for localised control, with XPOSE for Windows or macOS.

4K / UHD Support
Select from digital input and output options including HDMI and DisplayPort.

Genlock
Genlock Y In is provided along allowing X14 to be synchronised with a Genlock generator and other devices, with a Genlock Y loop out also built in.

High Availability Power
X14 is supplied with a 1200W server grade, self contained modular power supply which may be completed with a redundant power supply enabling hot-swap capabilities for mission critical applications.
Monitoring/Control Room

8K display canvas with multiple layers on each 2K display output. Presets can be switched seamlessly with specific sources brought to larger view on demand. Any source preview dedicated PVM module.

Live Events & Broadcast

LED display system with a main stage display and IMag either side of main display, plus additional displays above the stage and on the floor. Each display can be managed separately or brought together as a signal canvas.

Integration/Installation

LED display installation with background video graphics across a 56K canvas, with PIPs/windows/layers over.

Stage presentation with main LED display divided into sections using video layers, relay LCD monitors allow viewing of content by people further from the stage or in backstage areas. All processing output from common sources connected to X14.

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

Video Wall Processor

Configure X14 as video wall splicing processor with up to 40 2K outputs connected or up to 4K outputs. Outputs may be arranged in pixel space as one or more displays with video mapped across the pixel space. Switch between presets seamlessly.

Presentation Switch

Set X14 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.

3D Processing

X14 includes 3D processing capabilities for common industry standards and allows seamless switching between 3D signals. Display massive 3D videos across up to 80 Mega pixel canvases.

ARO™ Advanced Rotation & Blending

Fit RGBlink ARO output modules to take advantage of on-processor fine rotation and positioning capabilities or variable edge blending. All processing undertaken on the processor without media applications.

Mixed Display Systems

Content a diverse range of displays to X14 for full synchronised display making use of use common sources of any type.
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.

Modular throughout X7 supports RGBlink SmartSlot™ technology that offers a wide range of native signal choices including 4K options for both input and output and supporting hot-swap of modules.

Configure X7 on demand via RGBlink XPOSE software to create independent output pixel spaces for each physical display system regardless of type and arrangement. All processing and setting are on board the hardware X7 platform for high performance low latency video.
Features

- Fully modular design
- Wide range of input signal options
- Fit up to eight 4K@60 outputs
- Fit up to 32 2K ARO advanced rotation outputs
- 64 mega pixel capacity
- Multi-mode operations
- LOGO Capture, DSK and OSD on board
- Genlock In & Digital Reference support
- Support for redundant power supply
- Store and recall presets on board
- Save settings and presets offline
Multi-Mode Operations
X7 outputs can be configure 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.

64 Mega Pixel Splicing
Fit up to 32 2K 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).

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.

Preview Streaming
Fit the dedicated source preview streaming module to an output slot to stream video sources to XPOSE or 3rd party clients. Connect a display locally via HDMI for monitoring via multi-view of sources.

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.

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.

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.

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

Store Settings
All settings including presets are stored on board, these configuration files may also be download and stored offline.
Presentation Switching
Preview Presets and TAKE to output with seamless switching.

Example: Use XPOSE to control X7, preview Presets (PST) from the software, switch/TAKE on demand to PGM.

Video Wall Control
Output to up to 32 displays for a continuous video wall with multiple video layers arranged across the output display area.

Example: 32 displays arranged as a video wall for control room monitoring application.

* Processor shown with optional modules fitted – refer specification and manuals for details
** Some features may require firmware updates and XPOSE 2.0 for configuration.
ARO Rotation
Output to creatively arranged displays with each output positioned arranged and scaled separately.

Example: X7 fitted with three ARO output modules providing 12 2K outputs.

ARO Blending
Output to projectors with variable edge blending to create large seamless display surfaces arranged in anyway.

Example: X7 fitted with three ARO output modules providing 12 2K outputs with Edge Blending configured from XPOSE.

Display Systems
Make use of multiple system models to configure and control combinations of displays as a single system.

Example: X7 with a combination of ARO modules for blending and rotation and 2K DVI output modules connected to LED display.
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 bus maintains real-time performance even regardless of the signal load or type.

Inputs and outputs are entirely modular, arranged in slots, up to sixteen inputs and up to eight outputs may be fitted. RGBlink SmartSlot modules for input include 4K@60 Digital (HDMI 2.0 & DisplayPort 1.2), 12G-SDI, a wide range of 2K module options, as well as inputs for H.264 and USB Media.

While X3 is ideal for videowall continuous display environments, the processor is truly multi-functional with operation modes including Videowall, Presentation, Matrix, 3D and more.
Features

- Fully modular design
- Wide range of input signal options
- Fit up to two 4K@60 outputs
- Fit up to 8 2K ARO advanced rotation outputs
- 18 mega pixel capacity
- Multiple operation modes
- LOGO Capture, DSK and OSD on board
- Genlock In & Digital Reference support
- Support for redundant power supply
- Store and recall presets on board
- Save settings and presets offline
- PVW multi-viewer option
**UHD 4K 60Hz Signal Support**
RGBlink 4K input and output modules may be fitted to X3. HDMI 2.0 and DisplayPort 1.2 4K@60 digital inputs and 12G-SDI may be used in both X3 and X3p models.

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

**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.

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

**Multi-Layer | Multi-Window**
Output video from multiple sources as layers or windows scaled and positioned across the output pixel space.

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

**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 on the X3 allowing synchronisation with other devices in the system.

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

**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.

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* X3p model shown with optional modules fitted. PVW module supported only in X3p model.
** 4K modules not supported in X3e model. Refer specification and manuals for details.
Video Wall

Splice outputs up to 8K x 2K resolutions. Seamlessly switch between presets.

Example: Two Quad 2K DVI modules fitted to X3 with output pixel space arranged as a single continuous display.

Example: Two Quad 2K DVI modules fitted to X3 with output to four 2K displays. Multiple layers/windows applied over the background video.

Example: Two Quad 2K DVI modules fitted to X3 with output to four 2K displays. Multiple layers/windows applied over the background video and across spliced outputs.
Preview/Presentation

Set X3 in Preview mode with 4 outputs configured for full PST monitoring and seamless switching to 4 another 4 outputs configured for live PGM.

Example: Use XPOSE to control X3, preview Presets (PST) from the software, switch/TAKE on demand to PGM.

3D Processing

Support for 3D input and output signals encode and decode.
Modular Video Wall Control

Beautifully designed and compact, X2 is ideal for fixed pro AV and integration applications. Universal routing and scaling built on innovative RGBlink technologies, X2 has a fully modular input and output structure supporting up to 16x16 inputs and outputs, allowing the processor to be configured to specific applications with low overhead.

Control and configuration is achieved via a ethernet interface in conjunction with XPOSE®, XPOSE mobile or RGBlink OpenAPI. Configure X2 for routing and matrix operations or for video wall applications, including spliced displays with bezel offset support.

A dedicated preview output is available while source IP streaming extends monitoring to XPOSE and other IP clients. Genlock and Digital Reference together with LayerLink™ and uLink allows multiple devices to operate together as one system.

Designed for high-availability requirements, X2 supports hot-swap / redundant power supply and includes multiple configurable failover and backup features ideal for control room and other integration applications.
Features:

- Fully modular design
- Wide range of input signal options
- 33 mega pixel capacity
- Multi-mode operations
- Source streaming previews over IP
- Output rotation in 90 degree increments
- OSD
- Genlock In & Digital Reference support
- Support for redundant power supply
- Store and recall presets on board
- Save settings and presets offline

HDBaseT Direct Connect

The range of X2 output modules includes HDBaseT allowing both direct connection to displays supporting this standard and supporting HDMI signals extended up to 100 metres.

Rotate

Outputs maybe rotated in 90 degree increments, ideal for commercial and retail applications.
Configure, Control, Integrate
Use RGBlink XPOSE to fully configure X2 while maintaining all settings and presets on board the X2 hardware-based processing platform. Control and integrate using XPOSE or RGBlink OpenAPI.

Synchronise
X2 includes both Genlock and HDMI Digital Reference inputs, allowing a variety of synchronisation scenarios. Additionally RGBlink uLink is built in support of multi-device cascade.

Splicing
Arrange video layers across multiple outputs with fully synchronised spliced outputs pixel-for-pixel.

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

Store Settings
All settings including presets are stored on board, these configuration files may also be download and stored of line.

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

Configurable Outputs
Set the output resolution and scale to multiple display sizes, whether for LCD, projection or LED.
**Videowall Mode**

Arrange output displays/monitors for up to 16K x 2K output or 32K x 1K output, with up to four layers per output slot.

![Diagram of videowall setup](image)

**Preview Mode**

The outputs are split with half of the outputs being Preview (PST) while the other half are for Program (PST) output. Seamlessly switch from PST to PGM.

![Diagram of preview setup](image)
3D Mode
Common 3D signals may be utilised and scaled for output up to 8K x 2K.

Matrix Mode
Use X2 as a multi-signal / mixed signal matrix for cross-conversion and distribution of input signals to one or more outputs.
M Series
Mixing & Scaling
Video Control on Demand

Bringing together sophisticated presentation switching with advanced mixing capabilities into a single device, this vision mixer console includes broadcast style features for quick usage and access for any event or presentation. Integral dual eight-inch LCD displays provide monitoring of video sources, full preview, and program outputs. At the rear of the M3, the unique RGBlink modular platform becomes apparent, with a host of signal options and features.

Along with the on-board LCD monitoring, signature large tactile illuminated buttons feature with T-Bar mixing controls. Up to six outputs may be fitted to M3 for presentation solutions that go beyond just vision mixing, and with powerful scaling features, M3 is a fully integrated video system suitable for professional environments across entertainment to integration.

M3 is available in two variants with the M3e model having additional features for AUX outputs when fitted, including PIP capabilities and more.
Features

- Integrated vision mixer and scaler
- 16 mega pixel capacity
- PST to PGM presentation switching
- Background insert inputs
- Overlay features including OSD, LOGO & STILL
- Digital effects for PIP including Mask, Frame, DSK
- Dedicated PVW Multiview onboard and external

- Integral adjustable Dual LCD displays
- Genlock Y In support
- Tally support
- Support for redundant power supply
- RGBlink SmartSlot™ modular signal structure
- Store and recall presets on board
- Save settings and presets to USB
Scale
Set output resolution independently from input resolutions, and scale the output pixel-to-pixel, ideal for direct connection to non-native displays such as LED. Arrange scaled layers in any position.

Multiview Preview
M3 features a dedicated multi-view preview display available both from the onboard LCD and via a dedicated HDMI output. This configurable PVW can display up to eight input sources.

PST/PGM Monitoring
An onboard LCD display is dedicated to providing monitoring of PST and may also be switched to show PGM. For external duplication of this monitoring, a dedicated HDMI output port is also provided.

Modular Inputs
A wide range of input options are available with up to twelve inputs able to be user fitted. Input options include HDMI, DVI, SDI, DisplayPort, CVBS and USB 2.0 media.

Auxiliary Outputs
With the optional AUX output module fitted, four 2K outputs are added to M3 (bringing the total to six 2K outputs). The AUX outputs are ideal for use a relay monitors, for distributed signals or spliced displays. With the M3s model, AUX outputs add PIP support.

Digital Effects
A video mask may be applied to a foreground PIP video layer. There are wide range of included masks, and in addition users may load custom masks for even more creative control. Other effects available include DSK/Chroma Key, blend edge softening effect and frames/borders including drop-shadow.

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

OSD
Import On Screen Display text messaging overlays in virtually any font or style, and either moving static. M3 provides a dedicated TAKE facility for OSD independently of the video TAKE.

LOGO & STILL
Import and apply a STILL (watermark) or LOGO (channel transitions with TAKE), these layers are additional overlays regardless of video layers in use.

Format
M3 accepts all common 2K input formats, with EDID management built in. Output to any 2K format with custom resolutions able to be specified to display requirements.

Dual 2K Outputs
M3 is standard with two HDMI outputs. These outputs may be configured in a variety of ways – modes – included standard duplicated output, dual 2K (4Kx1K) or where AUX is fitted as spliced and extended.

Genlock
Genlock Y in is included enabling synchronised operations of M3 across devices connected to a Genlock generator/source.
**Standard Mode**
The default operation mode of the M3, utilise up to five scaled layers/windows over with a background. Switch seamlessly between Preset (PST) and Program (PST).

Example: four PIP over a background on a single output (and duplicated on the 2nd HDMI output)

**4K1K Splicing Mode**
Utilising the standard dual HDMI outputs combined, layers may be used on each output over a background switching.

Example: two scaled video layers on each HDMI output

**AUX + PGM Splicing mode**
Fit an AUX module to utilise six outputs to splice and scale video up to 6Kx2K or 12Kx1K on the standard M3 model.

Example: 6K x 2K spliced display using six outputs

**AUX + LOOP**
With the optional AUX module fitted and used as an input, create the PST/PGM layout which can be output on the six outputs.

Example: 4K spliced display using AUX and PIPs

Example: 12K x 1K spliced display using six outputs

Example: 8Kx1K spliced display using AUX and PIPs

Example: Five displays, with centre "B" display using main HDMI output and window/layer

Example: Multiple AUX outputs with separate scaling and switching.
configured for 4Kx1K split mode, up to 2 background with seamless PST/PGM

Example: PIP on each AUX output over a background

Example: Dual PIPs split across AUX outputs over a background

Example: Single PIP split across the four AUX outputs over a background

Example: Single PiPs on each of two displays as well as a PIP split across the two AUX outputs over a background

Example: Scaled output to each AUX output.
Multi-layer video mixing and integrated solution

Ideal for meeting and conference rooms, houses of worship and any events spaces where hands on video control is needed for one of more displays, M2 is a complete integrated video processing and control solution.

M2 is packed with advanced features across multiple operation modes that offer a high level of flexibility for live presentation applications.

Choose from two models – M2 with four HDMI outputs or M2s with additional duplicated two channel output via SDI and HDMI ideal for connecting downstream devices such as recording and streaming.
Features

- Four standard mode configuration HDMI outputs
- 3 slots up to 9 user fit input modules
- Support hot swap modules
- Dedicated Preview (PWW) output
- Seamless switching
- Output splicing up to 8K1K
- Independently control two different displays
- 3 video layers plus overlay layers for OSD, LOGO and STILL
- Apply a mask to the foreground layer
- Genlock Y In: Over a dozen digital transitions via T-bar or TAKE
- TALLY signalling support for connected systems
- Store and recall presets on board
- Save settings and presets to USB
Group 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.

Output Splicing Modes

Split output across dual output channels for 4K x 1K split with PST, or across all four outputs for a videowall output of up to 8K x 1K.

Digital Effects

A video mask may be applied to a foreground video layer. There are wide range of included masks, and in additional users may load custom masks for even more creative control. Other effects available include DSK/Chromakey and blend edge softening effect.

Multiview Preview

M2 features a dedicated preview output via HDMI. This output presents a Multiview including preview of up to eight input sources.

Genlock

Genlock Y In is included enabling synchronised operations of M2 across devices connected to a Genlock generator.

Scale

Set output resolution independently from input resolutions, and scale the output pixel-to-pixel, ideal for direct connection to non-native displays such as LED. Arrange scaled layers in any position.

Crop & Position

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

OSD

Import On Screen Display text messaging overlays in virtually any font or style, and either moving static. M2 provides a dedicated TAKE facility for OSD independently of the video TAKE.

LOGO & STILL

Import and apply a STILL (watermark) or LOGO (channel transitions with TAKE), these layers are additional overlays regardless of video layers in use.

Modular Inputs

A wide range of input options are available with up to nine inputs able to be individually user fitted – modular M2 may be customised to almost any requirement. Input options include HDMI, DVI, SDI, DisplayPort, CVBS and USB 2.0 media.

Output Options

Choose the M2’s model which features support two channel SDI/HDMI duplicated outputs – a feature providing capability to connect M2s to other devices such as recorders, streaming devices or additional processing equipment.

Format

M2 accepts all common 2K input formats, with EDID management built in. Output to any 2K format with custom resolutions able to be specified to display requirements.
Standard Mode
Outputs are arranged in duplicated pairs for conventional 2K output with full PST and PGM switching of up to three video layers.

Example: 2K PGM output canvas. This output is duplicated on the second HDMI PGM.

Example: Three video layers on PGM and three video layers on PST separately configured.

Example: Mask applied to a foreground PIP, with PST configured separately.

4K1K Splicing Mode
In 4K1K, or Dual2K mode, each pair of output canvas on which up to 2 video layers by background image.

Example: 4K PGM output canvas with both HDMI PGM.

Example: 4K PGM output canvas with background image.

Example: 4K PGM output canvas with background image.

Matrix Mode
Utilise M2 as a mixed signal matrix, route outputs scaled separately.

Example: Multiple signal sources each routed to an

*shown with optional input and output modules—refer specification and options.
4K2K Splicing Mode

All four outputs are linked and spliced to form at 4K canvas which can be oriented as 4K2K, 8K1K or 2K4K. A single video layer is available. As all the outputs are used for PGM, there is no preset preview available.

Example: 8K PGM output canvas with all four HDMI PGM outputs spliced.

Example: Single video layer scaled and spliced across the outputs in a 8k x 1K arrangement.

Example: 4K split of video layer in conventional 4K UHD arrangement.

Presentation Mode

Presentation Mode supports an additional layer whether set for 2K or 4K1K operations. Presets are configured with the same layouts, with different sources able to be switched in and out of the window/layer containers.

Example: Presentation mode of 4K1K utilising dual foreground layers in addition to a background video layer. Video sources are switched inside the layers with no positional changes.
Fully integrated video scaling and mixing for everyday

A complete solution, simply connect M1 to any display and start presenting. Front panel console style controls together touch screen display make M1 intuitive and natural in use, even for the new operator.

More than just a video mixer, M1 allows full scaled output to modern displays without to additional equipment. For stage/conference presentations on board features including PIP (picture-in-picture) add powerful capabilities to make use of additional video sources including cameras.

While compact in size, M1 brings together essential features for small presentation environments, including audio mix features allowing connection to audio mixers or powered speakers.
Features

- Four modular user fit inputs
- Single channel output on HDMI (optionally SDI)
- Resolution independent configurable output
- Dedicated Multi-View Preview
- Picture in Picture with DSK & Mask effects
- Digital video transition effects
- Pixel-to-pixel scaling engine
- Digital stereo audio processing
- Support for external audio insert and output
- Genlock Y In
- Remote control via XPOSE mobile app.

Dedicated Preview

A dedicated HDMI output with multi-view is provided from which both PGM and PST can be monitored, along with input sources and audio levels.

Picture-in-Picture

Add a PIP as a foreground layer in any position, including with scale and crop.

Transition Effects

There are over a dozen transition effects and wipes built into M1. These maybe used via the T-bar or timed from the TAKE button.
**Mixed Audio**
Both embedded and insert audio are supported with separate left/right audio level controls available on the front panel. Audio may be selected independently from the video source. PPM monitoring maybe shown on the PWW as visual confirmation of source and output.

**Digital Effects**
The PIP may have an effect applied – options include masks (with a range built in as well as support for custom masks), DSK/Chroma Key to remove a background colour and variable edge blend, as softening effect to allowing the PIP to merged with the main image.

**Scale**
Set output resolution independently from input resolutions, and scale the output pixel-to-pixel, ideal for direct connection to non-native displays such as LED.

**Video Mixing**
M1 vision mixer style control panel provides a range of tactile controls including familiar T-Bar and large illuminated buttons for easy of operation.

**Modular by Design**
Each input is individual and are user fit – choose from a wide range of modular signal options. Modules are highly standardised across the RGBlink range for even greater flexibility.

Input options include HDMI, DVI, SDI, CVBS, USB and more.

Output options are HDMI or HDMI/SDI.

*shown with optional input and output modules – refer specification and options*
FLEXpro Series
Videowall Control
Next generation flexible solution for sophisticated video applications

FLEXpro8 is a 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 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 eight 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.
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.

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.

Dedicated Multi-View Preview
A built-in preview feature allows local and remote preview 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.

Front LCD Monitoring
The integral LCD provides local monitoring and status of FLEXpro8.

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.
**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.

*Rotation and Blending requires modules supporting RGBlink ARO™*
**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.

**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.

Example: 5 independent sources displays as PIPs within each display, with a background image. Preview the connected sources via dedicated HDMI.
FLEX RS1

Creative Power - Advanced Rotation and Blending Processing.

For creative video display applications anywhere, RGBlink FLEX RS1 extends the possible. FLEX RS1 adds new levels of flexibility to hardware based video solutions. With multiple operation modes, the four FLEX RS1 outputs may be utilised for advanced rotation, blending and splicing from a choice of 4K inputs.

Each output is resolution independent. In rotation applications, each output can individually be rotated in single degree increments, positioned on a virtual canvas or pixel space with support for variable pixel densities.

As a blending processor for projection, variable edge blending is configurable to produce panoramic displays or arrays in any configuration.

For splicing applications – ideal for LED displays – FLEX RS1 is an easy to use compact processor for up to 8K x 1K.

4K Digital Input

FLEX RS1 features the RGBlink 4K60 digital input module for high resolution digital media sources to be connected via DisplayPort or HDMI. For rotation and blending applications, the 4K input provides for high quality visual signals to be used with minimum need for upscaling.

RGBlink ARO™

Advanced Rotation and blending Output module features four DVI outputs with wide processing capability enabling sophisticated real time video display independent of source video.
Multi-Mode Operations
Suitable for a wide range of usage applications from installation to events, for creative rotation to blending and splicing, FLEX RS1 is a self-contained solution that simplifies advanced operations with a single device providing high level commonality across diverse applications.

Independent Output Resolution
Each of the four outputs is resolution independent.

Flip/Mirror
Outputs may be flipped in support of rear-projection applications or similar.

Scale Crop & Position
Position displays on virtual canvas, select area of interest to set density and relative display size.

ArtNet for Performance
FLEX RS1 has ArtNet built in, with an extensive DMX control profile, RS1 may be dynamically controlled from DMX show controllers allowing for real-time animation applications.

Integrate with OpenAPI
Control FLEX RS1 remotely from third party devices and applications with RGBlink OpenAPI UDP command set.

Familiar XPOSE Configuration
FLEX RS1 maybe connected via Ethernet to a computer running XPOSE for control and configuration within the RGBlink universal application platform. The intuitive visual interface templates and interacts with FLEX RS1 for full control and configuration.
**Variable Edge Blending**

As an edge blending processor, FLEX RS1 may be configured to output video enabling up to four projectors to be arranged combined to form a single display surface. Area of interest is also selectable allowing variable projection distances and non-linear overlaps.

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**4K Video Wall Splicing**

Adding to the versatility of FLEX RS1 is the facility to use the processor as a 4K video wall controller with outputs able to configured independently for a range of display possibilities.

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**Matrix Routing**

Take advantage of all four inputs, routing scaling/converting to each of the four DVI outputs. Each output has independent resolution.
**Advanced Rotation**

FLEX RS1 enables displays to be physically positioned and rotated in fine single degree increments, with the processor mapping and delivering video content to the display surface based on position in pixel space. Variable density allows displays of varying sizes to be combined to form creative video display solutions.

Each of the four outputs may be configured individually with rotation in 1 degree positioning. Video layered and mapped across the output displays.

Overlapping displays are supported in any arrangement, opening up a wide range of application possibilities.

Each output can be configured independently allowing displays of multiple sizes and pixel densities to be supported.
FLEX Series
Mixed Signal Matrix
FLEX SERIES

Uniquely Flexible – Modular in Every Way

FLEX series is more a system than simply a single product. Combine the base unit with the keyed front panel to be a mixed multi-signal matrix, select the button free front panel to be video wall splicing processor, or combine the features of both for a bespoke application solution.

- Fully modular X x X signal architecture
- Remountable front panel for customized operation panel support
- Support for applications requiring mixed formats and signals
- Output up to 2.5 million pixels in a range of formats with high refresh
- High availability auto-switching and failover configurations available
- Store up to 256 presets on board
- EDID management support
- Remote control by XPOSE and RGBlink OpenAPI
**FLEX XM Mixed Signal Matrix**

FLEX XM accommodates up to X inputs and X outputs in a wide range of analogue and digital formats including DVI, SDI, HDMI, USB, DisplayPort, HDBaseT, DVI, VGA, Composite, Component. The modular design allows any combination of signals to be installed and routed between inputs and outputs. Here X is from 1 to 32, defines both the inputs and outputs.

With a compact 2U form factor, FLEX16 minimises rack space and with native signal connections minimises the need for converters.

Controllable from the front panel via illuminated keys, FLEX XM allows localised matrix control when needed. In addition to remote control via XPOSE or control from integrator systems via RGBlink OpenAPI is included.

**FLEX XS Splicing Processor**

Configured as a splicing processor for video wall processor, FLEX X supports up to X inputs and up to X outputs or layers. Examples include utilizing all 16 outputs to create and splicing a single image to 8K by 4K display surface, or using 4 outputs for display and other outputs for layers, producing a 4K by 1K displays with multiple layers.
X1 & C1 Series
Switcher/Scalers
X1PRO E

Essential 4K Video Scaling and Splicing

Standard 4K Inputs
X1pro e includes popular DVI and DisplayPort inputs supporting 4K, with the DVI2 also supporting HDMI (and HDCP). Loop connectors are provided allowing connectivity to other devices.

Multi-Mode Operations
Ideal for a range usage applications, X1pro e is ready with the flexibility of multiple operation modes, enabling display solutions from conventional 2K with presentation modes, through to 8Kx1K splicing mode, and matrix operations too.

4K Split Outputs
With standard output to quad DVI connectors, X1pro e is ready to connect to common LED systems, facilitating pixel-to-pixel splicing across multiple outputs and displays regardless of physical arrangement.

Add Additional Inputs
The unique RGBlink modular input system is available on board X1pro e, allowing users to add up to an additional three 2K input sources for added flexibility. Options include USB2.0, 3G-SDI and more.
**2K Preview/Switcher Mode**

In this seamless switcher mode, outputs are divided into duplicate pairs, with two ports as preview (PVW) and two DVI ports as program (PGM). Alpha cross fade between PVW and PGM via the TAKE button. Duplicated outputs may be used for relay monitors or downstream processing and recording.

**4K1K Preview/Switcher Mode**

In this seamless switcher mode, outputs are arranged in pairs, with two ports in split modes providing a 4K by 1K preview (PVW) and the other two DVI ports similar as program (PGM) outputting 4K by 1K to be a single seamless display. Alpha cross fade between PVW and PGM via the TAKE button.
4K Split Mode
Use a 4K/UHD input signal with X1pro e to easily split and distribute across multiple 2K outputs, ideal to produce native 4K video wall solutions.

8K1K Split Mode
Take one or more video sources to produce a panoramic style 8K x 1K display seamlessly spliced and synchronised for continuous display. Suitable for stage and studio display applications.

Independent/Matrix Mode
Use X1pro e as a router with scan conversion between input and output allowing delivery of digital video to downstream devices.
Configurable Splicing

Output splicing maybe configured in a variety of ways to deliver a continuous display surface using the four DVI outputs provided, whether in conventional formats or custom formats.

4K UHD | 4Kx2K

2Kx4K

8Kx1K

Seamless Switching

In preview mode, outputs are divided between Preview (PVW) and Program (PGM) functions, with the PVW allowing operators to visually confirm source/preset video before TAKE to output.

In standard splicing modes where all four outputs are utilised for the main Program display, no preview is available, nonetheless switching between sources is seamless.

Redundant Outputs

X1pro e includes a full set of backup/loop outputs, fully synchronised with the main outputs, these outputs may be utilised to supply video to backup displays or LED control systems, increasing the availability options without the need for additional splitters.

Robust & Flexible

Signal failure over, or Hot backup is available. In the event a source signal is lost, the X1pro e can automatically switch to the alternate source specified.

Direct Access

Configure and control X1pro e directly from the front panel. With large illuminated buttons and OLED display, X1pro e operations are intuitive and fast.

LOGO Capture

Capture a video frame and store on board X1pro e, ideal for logos, default or fail-over messages.

Test Patterns

In aid of configuration, X1pro e includes common test patterns.
Next generation professional seamless switching and scaling

Innovative modular design. Simply plug in additional inputs to requirement. Bright LED display, large illuminated buttons. Intuitive and easy to use.

Features

- Seamless switching between any source
- Scaling with configurable Horz & Vert offsets
- Image Enhancement
- Transition Effects
- Split function
- PIP from any source in any position and size
- Up to 2048x1152@60Hz / 2560x1152@50Hz
- On board EDID Management
- HDCP compliant
- Easy intuitive operation
- Modular construction with innovative RGBlink plug-n-play architecture
- Add a wide range of input options to suit particular requirements
- Optional Wifi Hot Spot module for use with remote apps
- Optional Audio Management module
Seamless Switching
Switch between any input with any resolution seamlessly, with no black frame.

Transition Effects
Choose from a range of transitions to add further effect to displays.

Remote Control
Standard Windows control software for remote control and update is included. Apps for Apple iPad and iPhone, as well as Android are available, extending the use of X1.

Input Options
Select from a wide range of input and other options to customise X1 to specific requirements, whether for rental or installation.

Picture in Picture
Include a PIP from a range of stand positions including PBP (Picture-By-Picture) Pre-sets.
Ready to Go Seamless Switching and Scaling

The C1US is designed for easy use video wall scaling - to be quick ready to go for everyday applications. Featuring as standard HDMI, DVI, VGA and Composite and well as 3G-SDI inputs, C1US also includes external audio input and output support.

Features

- Picture-in-Picture
- Seamless switching and transition effects
- Split image across dual outputs
- Standard and custom output resolutions
- Integrated audio
- EDID Management
- Built-in test pattern generator
**Ready to Switch & Transition**
Switch between videos with cut, fade or transition effects with no black frame.

**Ready to Play**
Insert external audio or use embedded digital video. Output audio separately via the external RCA jacks allowing C1US to be integrated with audio mixing systems.

**Ready to Send**
C1US features a dual height slot compatible with a wide range of LED Sender Cards. This innovative feature can accommodate two standard LED Sender Cards or one dual height card. Direct configuration of selected LED Sender Cards is available via the on board menu.

**Ready for Media**
Add an additional input to the C1US, via the slot provided. A wide range of options are available including USB media input to playback media including MPEG4, AVI, JPG, transforming the processor into a simple media player.

**Ready to Scale**
Cross convert video inputs to the required output resolution. C1US supports a host of standard input formats, while output resolution settings are even more flexible to support a wide range of display devices. For LED and other displays, the RGBlink pixel to pixel scaling engine is built-in allowing pixel perfect video presentation on any display in any ratio.

**Ready to Display**
Include a PIP in a range of standard positions, including PBP (Picture-By-Picture) Pre-sets.

**Management Ready**
EDID resolution management is available on board including copy and save increasing input support compatibility.
T Series Control Consoles
Connect & Control
Connect T Series console to compatible RGBlink processors via a Catée cable. Click search and connect, to immediately be able to configure and control the connected processor.

External Display
Connect an external monitor for duplication of on board controls display.

Interactive Touch Screen
On board LCD displays are touchscreen enabled intuitive navigation and controls.

Video Streaming
When connected to a H.264 preview streaming enabled processor, T Series consoles display video sources directly in the configuration allowing users to have a realistic representation of both presets and preview/program operations.

On the T2 the second display enhances this capability with full screen previews and multi-views.
Configure & Preset
Configure all the attributes of connected processors visually, and well as recall, program and save presets on the remote processors.

Dedicated to Control
The live control section of the T Series consoles includes familiar T-Bar and TAKE buttons along with related output controls positioned for clear and optimal access. T2 adds shortcut keys into the live control area enhancing the ability to focus on live events without distraction.

Dynamic Control Surface
T Series application keys are conveniently arranged in groups. OLED displays above each key provide a legend as to the function of the key, and may be configured or personalised with text or graphics to the users requirements.

Convenient Control
To aid in configuration and data entry, T Series consoles include a variety of input methods which not only include the touch screen, but also a dedicated numeric pad and three-axis joystick precision joystick.

Take control of live events with T-ONE, putting full power of control with the programmer and operator. T Series consoles features integrated LCD touch screen displays front and centre, allowing full view of configuration of connected processors. With large dynamically illuminated keys, along with OLED electronic legends for superior visibility, T Series console provide immediate hands on controls essential for live work environments including stage, broadcast and control rooms.

T Series controllers come to live when connected to selected RGBlink advanced processors from the X and D Series.

Utilizing the power of the RGBlink XPOSE platform, T Series controller offers fluid and demand based video wall control from a convenient tactile interface, opening up new possibilities and enabling supplicated video presentations.
LED Series
LED Control Solutions
The future of LED display control and integration.

RGBlink Subito bridges the gap between source, control and display, integrating LED configuration directly into RGBlink video processors via RGBlink innovative SmartSlot(tm) module system.

Subito modules complete with Gigabit Ethernet ports connect directly to LED displays, and the common architecture allows Subito modules to be utilised across a range of video processors, allowing integrators to select the most suitable devices without limitation.

Not only less cables and rack space, the RGBlink Subito system fully integrates LED display control into the video processing architecture and provides full access to integrators via RGBlink OpenAPI and the RGBlink XPOSE common control platform.

Integrated Monitoring and Inspection

Subito enabled LED displays may be easily configured, monitored and inspected via the video processor. As an integrated system, a complete set of information maybe presented directly on a connected LED display, including module information, IP settings, resolution and scaling configuration and calibration data. Bringing all this information together allows field engineers and technicians to gain immediate insight into status and analysis performance.
**Modular by Design**

In addition to being a module option for RGBlink processors, the design allows Subito to be built into discrete products such as RGBlink GX4 or integrated into third party designs. The system offers standard connection and an open API interface.

The compact Subito modules allow displays of greater than 2K, or multiple displays, to be achieved with ease, while the modularity enables greater flexibility and simplicity to support.

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**Efficient**

Typical 2K display applications with backup have required 3U rack space. With Subito enabled system, rack space requirements can be dramatically reduced, with backup systems built right into the processor in use. Further the fully integrated Subito allows redundant backup options from video control and sources to be fully leveraged across the display system. With Subito there are less external video connections, less individual devices offering reduced points of failure, greater reliability and enhanced performance.

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**SUBITO Interface**

With common connectors and open interface, Subito is Ready to Connect

- Input
  - Internal hi-speed board-to-board connections
  - HDMI 1.3
  - SPI communications port
  - I2C communications port
  - RS232 communications part
  - standard +5V power bus

- Output
  - 4 x standard RJ45 connection ports

---

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GX4

Features

- LED display control management
- Picture in picture (dual picture)
- Audio and video synchronization control
- Modular input option
- Multiple cascade splicing display
- User-defined output resolution
- Customized EDID management
- 1U standard rack mount

Seamless Switching
GX4 supports seamless switching between any input and any output, and supports TAKE pre-sync for delay free switching and signal confirmation before switching the input signal source.

Transition Effects
A range of transition effects are included, allowing different effects when switching between inputs signals.

Audio and Video Synchronization Controls
GX4 comes standard with 1 pair of audio input and output RCA connectors. Inputs support both external audio input as well as embedded audio. External audio output controls are available, allowing direct and synchronised connection to integrated audio devices within advertising displays and other applications.
**Picture-in-picture display**

GX4 supports arbitrarily selected input signal to form a two-screen display on the display screen, and the menu provides A8 dual-screen display for quick layout, and the A8 screen size position can be adjusted according to actual needs.

**Modular Input Option**

In addition to standard inputs, GX4 also includes an slot for optional input signal. Choose from a range of options including SDI, USB media and others to configure GX4 to specific application requirements.

**Multiple cascaded splicing display**

GX4 supports professional-grade multi-stage splicing function, which realizes synchronous large-slice splicing of large LED display resolution, and standard HDMI loop output completes multiple GX4 cascading signal distribution, enabling users to complete multi-machine splicing at the lowest cost.

**LED Display Configuration**

Set up and dynamically configure connected LED displays directly from within the GX4 menu, providing a complete display management solution.
**G3 NET 2K**

Truly bringing together integrated video control for LED displays, G3 Net is not only a LED display controller a video scaler and switcher, but enables full remote control and automation via the industry standard Art-Net protocol.

With Art-Net, G3 Net can be controlled from lighting controllers and any device providing Art-Net control. Art-Net networks can be widely distributed over an IP network infrastructure.

RGBlink has implemented an extensive feature set with DMX512 channels to control source switching, scaling, and on board LED Sender Card features directly.

In multi device applications, lighting, media servers, video switching and LED Display can be controlled as one system in a coordinated way.
LED Display Control
Fully integrated LED display and video processing. G3 Net is available for popular ColorLight and Linsn LED Control systems.

Seamless Switching
Switching seamlessly between inputs, regardless of resolution or signal type.

Instant TAKE
Pre-sync next source with the RGBlink unique functionality allowing delay free, instant TAKE.

Transition Effects
G3 Net includes a wide range of built-in transition effects including wipes, pushes and pulls. Transition times can be instant (CUT) up to 35 seconds.

PIP
Include a PIP in any position or select a preset. Scale and crop as needed. PIP can be any available source including the active source in use for the main/background source. Swap PIP and background on demand.

Built-in Monitoring
G3 Net includes a colour LCD display for output monitoring or preview monitoring.

Preview Output
A DVI output is included to allow external preview (PWW). This output also supports HDMI signals.

Familiar RGBlink Menu
Integrated is the familiar RGBlink menu for navigation of features and settings.

Scale
Scale inputs to output resolution and pixel-by-pixel.

Test Patterns
Choose from a range of built-in test patterns to display, enabling finer configuration and tuning of LED display performance.

Essential Inputs
G3 Net 2K includes DVI, HDMI and SDI inputs. The HDMI with rugged XLR style housing.
Art-Net On Board
Control G3 Net remotely from an Art-Net enabled controller. Full range of control feature for both video and LED output control are available. Art-Net control features include:

- Input Selection
- Switching/TAKE
- Scaling & Positioning
- Output Mapping
- Brightness
- Contrast
- Saturation
- Colour Adjustment
- Test Pattern Selection
- and lots more.

EDID Management
Settings are provided for input EDID configurations.

Direct LED Connection
With LED control integrated within G3 Net, there is no external link cable. Simply connect LED display with CAT5e cable directly to G3 NET. Four output ports to LED displays are provided as industrial EtherCon connectors.

LED Display Configuration
Set up and dynamically configure connected LED displays.

Map
Configure output regions / pixel spaces for each of the outputs.
UMS Series
Media Solutions
UMS 4 is a heavy-duty media servers designed to play huge video content across large video canvases, while providing ease-of-use and rock-solid reliability at affordable prices.

With optional four 3G SDI, or 4 DP 1.2, UMS 4 is designed not only for the touring, but also for the installation to play back the 8K medias.

UMS 4 is a media server platform customized for meeting different requirements, including:

Redundant power supply.
SSD rack structure with plug and play, up to 4 SSD for content or data could be installed
2 Optional inputs capture modules, including HDMI 2.0, 12G SDI
1 Optional output module, including DP 1.2 and 12G SDI
The standard configuration comes with:
1 SSD driver for system OS
5 USB including 4 USB 3.0 and 1 USB 2.0
1 Stereo XLR audio Input
1 Stereo XLR audio Output
1 MIDI input
1 MIDI Output
2 Networks
1 Extending display by DVI
Build in Touch screen for monitoring and XPOSE running
### Specification

<table>
<thead>
<tr>
<th>Connections</th>
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<tr>
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| Grey Level | 12 bit |
| Color Space | 4:4:4 |

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<td></td>
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**Displays to Impress**
RMS 1A and RMS 8424 both feature 8in LCD displays in a 16:9 aspect and native resolution of 1024x600 pixels.

Each of three 5in displays in an RMS 5353 also have a 16:9 aspect ratio, while native resolution is 800x480 pixels.

**Preview USB**
All models include a USB-A input so USB media may be shown on the display, ideal for previewing digital media before use in a media device.

**Monitor Audio**
RMS 8424 has built in speakers complimenting each display, along with mini Jack sockets, as does RMS5353 allowing monitoring of embedded audio.

**Tally Support**
The larger models support Tally signals and include signal lights above each LCD display.

**Preview Multiple Signal Types**
Across the range, all models have support for DVI, HDMI and VGA. The larger RMS 8424 and RMS 5353 also having dedicated Composite in/loop connectors, and optionally 3G-SDI in/loop.

RGBlink preview monitors are the essential accessory whether rack mounted with equipment or used stand-alone.

All models offer a wide range of input resolution support up to 4K despite their compact size.

Use RMS monitors connected directly supported to video output, or use inline, and loop through the video source.
RMS 1A

Compact & Convenient
RMS 1A is the ultimate compact monitor, and ready to work as a monitor block to build for different application.

Desktop Monitor
Complete with desk stand, RMS 1A can be positioned almost anywhere, and with view angel adjustable.

Rack Solution
Add a rack mount accessory to the RMS 1A to conveniently rack mount, in a similar way to the larger models, allowing these monitors to be positioned together with related equipment.

Creative Solution
Monitoring to the wall in different degree and surface, RMS 1A helps to make the creative idea comes true with light demo installation.
MSP Series Video Tools
Signal Monitor & Generator

MSP 200PRO

Format and Test Pattern Generation are just two of the many features of MSP200pro.

Built in are standard video outputs for 3G-SDI, DVI/HDMI and CVBS. Set the output format from the built-in touch screen display by selecting from a wide range of common formats.

Popular test patterns can be easily selected with motion or without, and time code can be generated and displayed allowing inspection frame delay. MSP200pro also includes a USB media input port as standard – use a MPEG4 or image as a test signal source, opening up many possibilities for producing bespoke testing configurations.

Optional install an SDI or HDMI input module to make use of other external video sources. And EDID management is built right in too.

For the broadcast professional there is Genlock both In and out, plus on screen installation of wave forms.

Preview
Use MSP200pro as a remote preview monitor. Insert USB media for on screen display, and use that media (video or images) for output.

Add the optional HDMI or SDI interface and both preview and pass through that external source too.

Genlock
Genlock Y is supported and looped through. If this not used, then MSP200pro can generate Genlock Y or HS/VS.

Wave Form Inspection
Several wave form inspection graphs are available on screen, and in addition graphing of the audio signal can be displayed.

Test Patterns
A range of common test patterns are built in and selectable via the touch screen interface. Motion of a pattern can be turned on/off.

Additional test patterns of test images can be used by setting the input source to the standard USB input, and selecting custom files from USB.

Format Generator
A huge range of industry standard formats for both resolution and refresh are available for selection on board MSP200pro. These set the format for the standard SDI, CVBS and DVI output interfaces.

The DVI port supports HDMI (10bit) as well as VGA, using adapters.

Audio
On board audio is available and output on both the audio jack and to signals that support embedded audio. When using external media (USB or the optional SDI/HDMI), embedded audio is passed through.

Portable
MSP200pro supports battery operation – simply fit standard Li-on batteries to the internal compartment.

Rugged
MSP200pro is designed for the mobile professional. The extended housing helps protect connectors and there is strong glass cover for the touch display.
MSP200pro comes complete with case for the ultimate in protection between locations.
In modern digital video, Extended Display Identification Data (EDID) allows display devices to describe specification information to the video source equipment.

Using MSP 221 can resolve and prevent a number of EDID related issues, ensuring the expected output from a video source device by broadcasting a consistent EDID, even when display devices are switched, re-plugged or re-powered.

Additionally MSP 221 features HDCP tools resolving potential conflict situations when video is output to DVI or VGA equipment.

Connect
Connect MSP 221 between video source and display device. Input source can be HDMI or VGA (RGBVH). Output to display device is DVI or VGA.

Set
Capture and store EDID information from Display Device for use, or enter and set EDID from the keypad.

Control
RGBlink uniquely provides an Android app for set EDID. Connect MSP 221 to an Android device by USB, and configuration is easy with now familiar touch and graphical controls. Additionally Windows® software is also available for USB connection.
MSP Series Extenders
Extenders – Ethernet

MSP

MSP225 – HDMI to H.264
This compact converter provides encoding of HDMI signals to H.264 internet streaming video over IP. Now any video can be streamed to a connected website for viewing, expanding the reach possibilities. MSP225 offers two HDMI input channels and dual RJ45 connectors for IP output and connection to LAN/WAN. Configuration of MSP 225 is made via a web browser interface, providing settings for encoding formats and connection settings for web applications.

MSP 329 4K@30 HDMI 1.4 Extender
- KVM support
- HDMI 1.4 (18Gbps) and DVI compliant
- HDCP 1.4 and HDCP 2.2
- Video resolutions up to 4K2K@50/60Hz (YUV420)
- Long distance transmission
  - up to 3300ft/1000m on single-mode
  - up to 1000m/300m on multi-mode (50/125µm/OM3)
- Bidirectional wideband infrared control and RS-232 transmission
- Locking power supply

MSP 329 Tx
- 2x USB (type B female)
- 1x 3.5mm female output for analog audio
- 1x 3.5mm female input for analog audio
- 1x VGA female input
- 1x HDMI female input
- 1x RJ-45 gigabit Ethernet
- 1x DB9 serial port male
- 1x IR emitter (3.5mm Stereo Mini-jack)
- 1x IR receiver (3.5mm Stereo Mini-jack)
- 1x SFP slot (for Fiber Output by SFP module)

MSP 329 Rx
- 2x USB (type A female USB 1.1)
- 2x USB (type A female USB 2.0)
- 1x 3.5mm female output for analog audio
- 1x 3.5mm female input for analog audio
- 1x VGA female output
- 1x HDMI female output
- 1x RJ-45 gigabit Ethernet
- 1x DB9 serial port male
- 1x IR emitter (3.5mm Stereo Mini-jack)
- 1x IR receiver (3.5mm Stereo Mini-jack)
- 1x SFP slot (for Fiber Input by SFP module)
MSP 315
The MSP 315 HDMI extender adopts a single CAT5/CAT6 cable, including the Transmit terminal (TX) and Receiving Terminal (RX). A single CAT 5 and CAT6 cable extends the 1080P full HD HDMI signal distance to 100m. The MSP 315 supports lossless audio formats such as 4K*2K (3840*2160@30Hz), 1080p full HD resolution, HDCP transmission protocols, high bit rate (HBR) Dolby TrueHD and dts-hd Master.

MSP226 – H.264 to HDMI
Easy connection of internet web streams to conventional video processing and display equipment is enabled with MSP 226. Connect H.264 internet streaming via IP to large displays with this decoder.
MSP226 offers two HDMI output channels and dual RJ45 connectors for IP input for connection from LAN/ WAN.
Configuration of MSP 226 is made via a web browser interface, providing settings connection to web applications and video streams.

MSP 330 10G SDVoE Fiber Extender
- KVM support
- HDMI 2.0b (18Gbps), HDCP 2.2 and DVI compliant
- HDR Support
- Video resolutions up to 4K2K@50/60Hz (YUV444)
- Audio supports LPCM2/5.1/7.1 CH, Dolby Digital, DTS, Dolby True HD, DTS-HD Master Audio
- Long distance transmission
  - up to 3300ft/1000m over single-mode fiber
  - up to 1000ft/300m over multi-mode fiber (50/125µm/OM3)
- Bi-directional wideband infrared control and RS-232 transmission
- Locking power supply

MSP 330 Tx
- Inputs:
  - 1x HDMI Type A (19-pin female, HDMI 2.0 compliant)
  - 1x IR In (3.5mm Stereo Mini-jack)
  - 1x RS-232 (3.81mm Phoenix connector)
- Outputs:
  - 1x Optical Fiber Out (LC female)
  - 1x IR Out (3.5mm Stereo Mini-jack)

MSP 330 Rx
- Inputs:
  - 1x Optical Fiber In (LC female)
  - 1x IR In (3.5mm Stereo Mini-jack)
- Outputs:
  - 1x HDMI Type A (19-pin female, HDMI 2.0 Compliance)
  - 1x IR Out (3.5mm Stereo Mini-jack)
  - 1x RS-232 (3.81mm Phoenix connector)
Extenders – Fiber

MSP 209M – Ethernet | Multi Mode Fibre

For Ethernet connections up to 1km, MSP209M is a IEEE802.3ab 1000Base-T and IEEE802.3z 1000Base-LX compliant device set, supporting up to Gigabit Ethernet. MSP 209S is supplied “ready to use”.

MSP 209S – Ethernet | Single Mode Fibre

For Ethernet connections up to 10km, MSP209S is a IEEE802.3ab 1000Base-T and IEEE802.3z 1000Base-LX compliant device set, supporting up to Gigabit Ethernet. MSP 209M is supplied “ready to use”.

MSP 214 – DVI | Fibre

Delivered as a Transmitter and Receiver set, MSP214 features DVI-I connectors supporting DVI 1.0 signals up to 2560x1600@60Hz, 1920x1200@60Hz (WUXGA), and 2048x1200@60Hz. HDMI signals with the use of a adapter are also supported up to HDMI 1.4. With low loss, high bandwidth 10Gbps transmission over fibre optic cable MSP214 provides solution for extended transmission of DVI.
**MSP 314-2 – DVI Extender**

Extend 2K DVI signals via Fiber optic cable with the MSP314-2 set. This compact, transmitter receiver set plugs directly into DVI ports and is ideal for portable applications.

Integral LC ports allow connection to Fiber cables for transmission up to 300m with multi-mode Fiber or up to 2000m with single mode Fiber. The ultimate in compact signal extension, simply power MSP318-2 from supplied plug-packs.

Resolutions up to 2560x1600@60Hz are supported with EDID capture available via push-pin.

**MSP 314-4 – DVI Extender**

Extend DVI via Fiber optic cable with the MSP314-4 set. This compact, transmitter receiver set plug directly into DVI ports avoiding the need for additional rack space or shelving with MSP314-4 being ideal for portable applications.

MSP314-4 features integral LC ports – simply connect to a fiber cable for transmission up to 300m with multi-mode Fiber or up to 2000m with single mode Fiber. Power MSP314-4 from supplied plug-packs.

Resolutions up to 3840x2160@30Hz are supported with EDID copy available via push-pin.

**MSP 318-4 – HDMI Extender**

Extend HDMI beyond usual limits with the MSP318-4 Fiber extender set. Plug the transmitter directly into an HDMI source, and connect to either single or multi mode fiber optic cable. Similarly connect the receiver directly into an HDMI port on a display or downstream device. Just connect to low voltage power supply (included) at each end, MSP 318-4 is truly compact and ideal for portable applications or where there is restricted space.

MSP314-4 features integral LC ports – simply connect to a fiber cable for transmission up to 300m with multi-mode Fiber or up to 2000m with single mode Fiber.

HDCP compliant, resolutions up to 3840x2160@30Hz are supported with EDID management available via microUSB.
Signal Convertors

**MSP 203 – SDI | HDMI**

Up to 3D-SDI input signals are supported on this mini convertor, with a SDI Loop port also provided. Embedded audio is also supported, or audio can be separately supplied as separate L/R analog or as digital AES/EBU inputs. Output to HDMI can be configured as HDMI 1.3 or DVI 1.0. DIP switches provide easy on device configuration, while remote configuration by USB is also available.

**MSP 303**

MSP 303 is a SDI to HDMI video converter supporting 1 x SDI input, 1 x HDMI output. SDI input supports 480i@60, 720p@60/59.94, 1080i@50/60/59.94, 1080p@23.98/24/25/29.97/30/50/59.94/60 resolution, HDMI output supports 720x480@60, 1280x720@60, 1920x1080@23.98/24/25/29.97/30/50/59.94/60 resolution. It has a pair of hangers for option in the MSP rack.

**MSP 204 – HDMI | SDI**

Convert common HDMI signals to SDI (up to 3G-SDI). Audio can be embedded into the SDI output or muted, and audio is split out and available on ¼” mono jack connectors for either analog L/R audio or AES/EBU digital audio. On board configuration via DIP switches is available as is remote configuration over USB.

**MSP 304**

MSP 304 is a HDMI to SDI video converter supporting 1 x HDMI input, 1 x SDI output. HDMI input supports 720x480@60, 1280x720@60, 1920x1080@23.98/24/25/29.97/30/50/59.94/60, SDI output supports 720x480@60, 1280x720@60, 1920x1080@23.98/24/25/29.97/30/50/59.94/60. It has a pair of hangers for option in the MSP rack.

**MSP 217 – 3G-SDI | FIBRE**

For extended transmission of SDI signals the MSP 217 set of Transmitter and Receiver provide capability for high speeds and long distances with high fidelity and very low loss over fibre optic cable. This extender is suitable for SDI signals conforming to SMPTE 424, SMPTE 292M and SMPTE 259M standards, and support high bandwidth 10Gbps transmissions with resolutions up to 3G-SDI.

**MSP 227 – DVI Cross Converter**

Convert input signal resolution for DVI output. Inputs signals supported are DVI, HDMI, VGA and YPbPr. Set the output resolution via DIP switch array. Other configurations use buttons and on screen display. Output up to 1920x1080p@60.
**MSP 210C – CVBS | SDI with Scan Convertor**

Composite 480i and 576i signals can be converted to SDI with this convertor. Audio, as either L/R analog signals or AES/EBU digital audio can be inserted and embedded to the output. SDI output up to 3G-SDI is supported, and a range of scaled/scan converted output are available including 480i, 576i, 720p@50Hz, 720p@60Hz, 1080i@50Hz, 1080i@60Hz, 1080p@50Hz and 1080p@60Hz. Configure by on board DIP switch or PC via USB.

**MSP 210D – DISPLAYPORT | SDI with Scan Convertor**

DisplayPort in VESA formats at 60Hz (800x600, 1024x768, 1280x720, 1280x768, 1280x800, 1280x1024, 1366x768, 1366x768, 1440x900, 1400x1050, 1600x1200, 1680x1050, 1920x1080) can be converted to SDI. L/R audio signals or AES/EBU digital audio can be inserted and embedded. SDI up to 3G-SDI is supported - scaled/scan converted outputs can be set to 480i, 576i, 720p@50Hz, 720p@60Hz, 1080i@50Hz, 1080i@60Hz, 1080p@50Hz and 1080p@60Hz. Configure by on board DIP switch or PC via USB.

**MSP 210H – HDMI | SDI with Scan Convertor**

Convert HDMI in VESA formats at 60Hz (800x600, 1024x768, 1280x720, 1280x768, 1280x800, 1280x1024, 1366x768, 1366x768, 1440x900, 1400x1050, 1600x1200, 1680x1050, 1920x1080) to SDI. L/R audio signals or AES/EBU digital audio can be inserted and embedded. Up to 3G-SDI is supported - scaled/scan converted outputs can be set to 480i, 576i, 720p@50Hz, 720p@60Hz, 1080i@50Hz, 1080i@60Hz, 1080p@50Hz and 1080p@60Hz. Configure by on board DIP switch or PC via USB.

**MSP 210V – VGA | SDI with Scan Convertor**

VGA in VESA formats at 60Hz (800x600, 1024x768, 1280x720, 1280x768, 1280x800, 1280x1024, 1366x768, 1366x768, 1440x900, 1400x1050, 1600x1200, 1680x1050, 1920x1080) can be converted to SDI. L/R audio signals or AES/EBU digital audio can be inserted and embedded. Up to 3G-SDI is supported - scaled/scan converted outputs can be set to 480i, 576i, 720p@50Hz, 720p@60Hz, 1080i@50Hz, 1080i@60Hz, 1080p@50Hz and 1080p@60Hz. Configure by on board DIP switch or PC via USB.

**MSP 211 – HDMI | DVI**

The HDMI 1.4 standard input converts video signals to DVI and splits the embedded audio out to dual mono ¼” jacks. Resolution formats supported are 480i, 576i, 480p, 576p, 720p50, 720p59.94, 720p60, 1080i50, 1080i59.94, 1080p50, 1080p59.94, 1080p60.
To the One who has rescued my soul
To the One who has welcomed me home
MSP Series
Signal Distributors
Signal Distributors

**MSP 216 – DVI**
In a convenient compact format factor, MSP 216 provides simple 1-in-2-out distribution for DVI signals.

MSP216 supports a wide range of resolutions up to 2160p 4K UHD, and EDID configuration can be done via USB and XSET. High quality gold plated DVI connectors are utilised and signal can be set to 8bit/10bit for HDMI support on DVI using the DIP switches.

**MSP 219-2 – Dual SDI**
A high performance, high stability and high-definition SDI distributor, MSP 219 supports one SDI input and two outputs. SDI in SD-SDI, HD-SDI and 3G-SDI standards can all be used, including with embedded audio. Maximum resolution is 1080p.

**MSP 219-4 – Quad SDI**
A high performance, high stability and high-definition SDI distributor, MSP 219-4 supports one SDI input for distribution to four outputs. SDI in SD-SDI, HD-SDI and 3G-SDI standards can all be used, including with embedded audio. A range of standard resolutions including NTSC and PAL resolutions, to a maximum of 1080p are supported. At only 12W, MSP 219-4 is an efficient economical on-demand solution.

**DXP DP0102**
DXP DP0102 is a DP 1.2 one input and two outputs video distributor, which can realize the distribution of 1 x DP1.2 input and 2 x DP1.2 output signals. It supports HDR Ycbcr:4:4:4 technology and 4Kx2K /60Hz resolution. It can be connected and extended to increase the number of display transmissions. It supports the input EDID management with two EDID modes, users can set according to the needs of the application, complete the best quality image allocation without signal loss display.
DXP H0104

DXP H0104 is a HDMI2.0 one HDMI input and four HDMI outputs video distributor, to achieve 1 x HDMI2.0 input and 4 x HDMI2.0 output signals distribution. HDMI2.0 supports HDR Ycbcr:4:4:4 technology and 4Kx2K / 60Hz resolution, HDCP2.2, 8 bits /10 bits /12 bits /36 bits deep color. It supports input EDID management with two EDID modes, users can set according to the needs of the application, complete the best quality image allocation without signal loss display.

DXP H0108

DXP H0108 is a HDMI2.0 one HDMI input and eight HDMI outputs video distributor to achieve 1 x HDMI2.0 input and 8 x HDMI2.0 output signals distribution. HDMI2.0 supports HDR Ycbcr:4:4:4 technology and 4Kx2K / 60Hz resolution, HDCP2.2, 8 bits /10 bits /12 bits /36 bits deep color. It supports input EDID management with two EDID modes, users can set according to the needs of the application, complete the best quality image allocation without signal loss display.

DXP H0404

DXP H0404 is a 4K HD HDMI 2.0 matrix switcher. It is composed of 4 HDMI inputs and 4 HDMI outputs, forming a 4x4 matrix switcher. Each HDMI output contains 1 SPDIF audio output. It supports HDMI2.0 standard, 4Kx2K @60Hz 4:4:4 resolution at maximum and is compatible with HDCP2.2. It is built in intelligent EDID management with 10 types of EDID data. The device control mode is flexible and diverse, including infrared control, serial control, network control (optional), panel control and flexible control to make it more convenient to use.

DXP D0104

DXP D0104 is a DVI one input and four outputs video distributor. Realizing 1 x DVI input and 4 x DVI output signals distribution, which can be extended and increase the number of screen display, input and output support HDTV 1920x1200 (compatible with lower resolution) high resolution image allocation display.

DXP D0108

One in eight out, the DXP D0108 provides distribution for DVI (or HDMI) signals in a reliable compact 1RU form factor. As wide range of standard VESA and SMPTE resolutions are supported, and DXP D0108 is HDCP compliant.

DXP D0404

Providing simply DVI routing in a compact 1RU form factor, each of four outputs can have any one of the four inputs selected / routed to that output. The front panel layout providing a clear visual indication of the routing selected. Additionally, there is a Lock button enabling protection from inadvertent key presses. As with many other products in the DXP range, IR remote control is available, as is remote control via Window® software.
Flightcases

1U Rack Sleeves
Robust yet lightweight protection for 1U video processors and similar equipment. Standard 19” rack included. Available with 290mm and 390mm internal depths.

2U Rack Sleeves
Protection for 2U video processors and similar equipment. Standard 19” rack included. Available with 320mm and 460mm internal depths.

4U Rack Case
Protection for 3U of 19” rack mounting equipment. Removable covers front and rear, plus heavy duty lifting handles, recessed latches and ball corners. Internal depth

8U Rack Case
Protection for 7U of 19” rack mounting equipment. Removable covers front and rear, plus heavy duty lifting handles, recessed latches and ball corners. Internal depth 565mm.
## Video Cable

### DP to DP Cable
- Support for 3840×2160@60Hz
- Video and Audio are Transmitted Synchronously
- 2x DP Male Connector
- Molded Connectors with Strain Relief
- With Video Interface Protection Case

### DVI to DVI Cable
- Support for 3840×2160@30Hz
- Compatible with Analog Signal Transmission
- 2x DVI Male Connector
- Molded Connectors with Strain Relief

<table>
<thead>
<tr>
<th></th>
<th>DP to DP Cable</th>
<th>DVI to DVI Cable</th>
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<tbody>
<tr>
<td>Nominal Impedance</td>
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</table>

### HDMI to DVI-D Cable
- Support for 3840×2160@60Hz
- Ensures Compatibility between Two Distinct Digital Video Interfaces
- 1x HDMI Male Connector
- 1x DVI-D Male Connector
- Molded Connectors with Strain Relief

### HDMI to HDMI Cable
- Support for 3840×2160@30Hz
- Video and Audio are Transmitted
- 2x HDMI Male Connector
- Molded Connectors with Strain Relief
- With Video Interface Protection Case

<table>
<thead>
<tr>
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<th>HDMI to DVI-D Cable</th>
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<td>DVI 42.5x40x15.6mm</td>
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<tr>
<td>Weight</td>
<td>Net Weight</td>
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</table>

Refer to ‘Order Codes’
Modern software app for universal processors and more. XPOSE redefines what control of video processors can be X™S & advanced features with an intuitive that the real power of processors across the range can be taken full advantage of.

**Single App**

XPOSE provides remote control and configuration for all the modern RGBlink universal and presentation products. One app - XPOSE - is all that is needed from the everyday X1 to the large scale X14.

**Modern Tools**

XPOSE provides remote control and configuration in rich graphical interface that supports not just traditional mouse and keyboard, but is touch friendly too.

**Control Your Way**

Regardless of you OS favourite, Windows, macOS or Linux, there is an XPOSE edition. XPOSE, while respecting the standards on each OS platform, is the same, with a common underlying code base for enhanced compatibility and harmonisation.

**Flexible Connections**

Many of our modern products support LAN based connections. XPOSE naturally supports this mode of connectivity across either wired or wireless networks. And XPOSE also supports both USB and serial connections where those type are available on the video processor.

**Topology from Top to Bottom**

Hands on as you open package.
Step 1: Read In & Out out for the device once you open the package;
Step 2: Connect inputs and outputs just like your connection;
Step 3: Double check the connection by online synchronisation;
Step 4: Set the display area to be ready for the layers;
Step 5: Playout by manual or schedule;
Step 6: Monitoring all in one.
Designed for Presentation Processors

```plaintext
When used in a relatively simple configuration, it is possible to create a full tile grid, suitable for a presentation. However, in more complex configurations, it may be necessary to control or simply create content.
```

4K Support

Configuration of 4K sources is made easy with multiple configuration possibilities.

Share Settings

Save settings to a disk file for later recall, or sharing to other users.

Virtual Canvas

Position output displays (monitors) on a virtual canvas pixel-by-pixel. On a separate layer, then place video sources dynamically, position as required.

Complex Layouts

Sophisticated configurations are possible with not only pixel-to-pixel scaling of input sources, but also extensive output controls including advanced EDID and rotation capabilities.

Drag ‘n’ Drop

Drag and Drop both sources and output monitors onto the virtual canvas. Group sources on the canvas for ease of control and identification.

Live Video Preview

See preview of sources directly in XPOSE. Selected processors with H.264 IP streaming enable this features which can be a powerful monitoring tool.

Multi-Mode Operations

XPOSE supports all the multi-mode operations available on the connected processor.

Developing Platform

XPOSE is under constant development, with enhancements and features regularly being added. The RGBlink team embracing DevOps to bring new releases to customers sooner.

Designed for Universal Processors

XPOSE is the essential application for configuration of the RGBlink range of universal video processors – X series, F series, D series and so on. Whether configuration for an installation monitoring or dynamic control.
XPOSE Mobile, fully developed in house by the RGBlink team provide a convenient remote control and configuration of universal and presentation processors.

Configure and monitor selected MSP series products.

Control for MSP
An easy to use stand-alone tool, XSET uses LAN or USB connections. Product such as the MSP225 and MSP226 can be fully configured via LAN, for example.
**XTOOLS is the simple and modern way to update and install features to RGBlink products.**

**Consistent Updates**
With one update package format, one app, the update process is streamlined, familiar and consistent, for greater confidence and reliability.

**Common Update Tool**
All RGBlink modern processors are updatable from XTOOLS. Simply download the update package from the website, and select the update from within XTOOLS to start.

**Review & Update**
Connect a processor to review the version status for individual components of the processor. The interface will advise differences allow clear upgrading or even downgrading. XTOOLS reports status and prompts for any actions.

**Packaged Updates**
Each update package is self contained with all necessary files. The full range of selected updates are done within XTOOLS.

**Upload Features**
XTOOL is the app to prepare for install a range of configurable on device features, with a wizard style interface.

**OSD**
Configure OSD (On Screen Text) for loading on to products such as CP3072pro or X3 Live.

**STILL**
Load and prepare STILL BMP files and set transparency (alpha).

**LOGO**
Load and prepare LOGO BMP files.

**MASK**
Load and prepare MASK BMP files.
**Common Terminology**

**12G-SDI**  
Video signal standardized in SMPTE 424M that uses a single serial link at 2 Gbit/s for uncompressed transmission of video with embedded audio. Connector is BNC.

**Blackburst**  
The video waveform without the video elements. It includes the vertical sync, horizontal sync, and the Chroma burst information. Blackburst is used to synchronize video equipment to align the video output.

**BNC**  
Stands for Bayonet Neill-Concelman. A cable connector used extensively in television (named for its inventors). A cylindrical bayonet connector that operates with a twist-locking motion.

**Brightness**  
Usually refers to the amount or intensity of video light produced on a screen without regard to colour. Sometimes called black level.

**Colour Bars**  
A standard test pattern of several basic colours (white, yellow, cyan, green, magenta, red, blue, and black) as a reference for system alignment and testing. In NTSC video, the most commonly used colour bars are the SMPTE standard colour bars. In PAL video, the most commonly used colour bars are eight full field bars. On computer monitors the most commonly used colour bars are two rows of reversed colour bars.

**Colour Burst**  
In colour TV systems, a burst of subcarrier frequency located on the back part of the composite video signal. This serves as a colour synchronizing signal to establish a frequency and phase reference for the Chroma signal. Colour burst is 3.58 MHz for NTSC and 4.43 MHz for PAL.

**Colour Temperature**  
The colour quality, expressed in degrees Kelvin (K), of a light source. The higher the colour temperature, the bluer the light. The lower the temperature, the redder the light. Benchmark colour temperature for the AV industry include 5000°K, 6500°K, and 9000°K.

**Contrast Ratio**  
The ratio of the high light output level divided by the low light output level. In theory, the contrast ratio of the television system should be at least 100:1, if not 300:1. In reality, there are several limitations. Well-controlled viewing conditions should yield a practical contrast ratio of 30:1 to 50:1.

**CVBS**  
CVBS or Composite video, is an analog video signal without audio. Most commonly CVBS is used for transmission of standard definition signals. In consumer applications the connector is typically RCA type, while in professional applications the connector is BNC type.

**DisplayPort**  
A VESA standard interface primarily for video, but also for audio, USB and other data. DisplayPort (or DP) is backwards compatible with HDMI, DVI and VGA.

**DVI**  
Digital Visual Interface. The digital video connectivity standard that was developed by DDWG (Digital Display Work Group). This connection standard offers two different connectors: one with 24 pins that handles digital video signals only, and one with 29 pins that handles both digital and analog video.

**EDID**  
Extended Display Identification Data. EDID is a data structure used to communicate video display information, including native resolution and vertical interval refresh rate requirements, to a source device. The source device will then output the provided EDID data, ensuring proper video image quality.

**Frame**  
In interlaced video, a frame is one complete image. A video frame is made up of two fields, or two sets of interlaced lines. In a film, a frame is one still image of a series that makes up a motion image.

**Gamma**  
The light output of a CRT is not linear with respect to the voltage input. The difference between what you should have and what is actually output is known as gamma.

**Genlock**  
Allows synchronisation of otherwise video devices. A signal generator provides a signal pulses which connected devices can reference. Also see Black Burst and Color Burst.

**H.264**  
Video standard developed for Internet Protocol (IP) transmission of compressed video.

**HDBaseT**  
A video standard for the transmission of uncompressed video (HDMI signals) and related features using Cat 5e/Cat6 cabling infrastructure.
HDCP  High-bandwidth Digital Content Protection (HDCP) was developed by Intel Corporation and is in wide use for protection of video during transmission between devices.

HDMI  High Definition Multimedia Interface: An interface used for the transmission of uncompressed high definition video, up to 8 channels of audio, and control signals, over a single cable.

HD-SDI  The high-definition version of SDI specified in SMPTE-292M. This signal standard transmits audio and video with 10 bit depth and 4:2:2 colour quantization over a single coaxial cable with a data rate of 1.485 Gbps. Multiple video resolutions exists including 1280x720p and 1920x1080i resolution.

MPEG  Motion image Expert Group. A standard under the auspices of ISO for standards that allow digital compression, storage and transmission of moving image information such as motion video.

NTSC  The colour video standard used in North America and some other parts of the world created by the National Television Standards Committee in the 1950s. NTSC utilizes an interlaced video signals.

PAL  Phase Alternate Line. A television standard in which the phase of the colour carrier is alternated from line to line. It takes four full images (8 fields) for the colour-to-horizontal-images (8 fields) for the colour-to-horizontal phase relationship to return to the reference point. This alternation helps cancel out phase errors. For this reason, the hue control is not needed on a PAL TV set. PAL, is widely used in Western Europe, Australia, Africa, the Middle East, and Micronesia. PAL uses 625-line, 50-field (25 fps) composite colour transmission system.

PIP  Picture-In-Picture. A small image within a larger image created by scaling down one of image to make it smaller. Other forms of PIP displays include Picture-By-Picture (PBP) and Picture-Within-Picture (PWP), which are commonly used with 16:9 aspect display devices. PBP and PWP image formats require a separate scaler for each video window.

RCA  Connector used primarily in consumer AV equipment for both audio and video. The RCA connector was developed by the Radio Corporation of America.

Saturation  Chroma, Chroma gain. The intensity of the colour, or the extent to which a given colour in any image is free from white. The less white in a colour, the truer the colour or the greater its saturation. Saturation is the amount of pigment in a colour, and not the intensity.

Scaling  A conversion of a video or computer graphic signal from a starting resolution to a new resolution. Scaling from one resolution to another is typically done to optimize the signal for input to an image processor, transmission path or to improve its quality when presented on a particular display.

SDI  Serial Digital Interface. The standard based on a 270 Mbps transfer rate. This is a 10-bit, scrambled, polarity independent interface with common scrambling for both component ITU-R 601 and composite digital video and four channels of (embedded) digital audio.

Seamless Switching  A feature found on many video switchers. This feature causes the switcher to wait until the vertical interval to switch. This avoids a glitch (temporary scrambling) which often is seen when switching between sources.

SMPTE  Society of Motion picture and Television Engineers. A global organization, based in the United States, that sets standards for baseband visual communications. This includes film as well as video and television standards.

VESA  Video Electronics Standards Association. An organization facilitating computer graphics through standards.

VGA  Video Graphics Array. VGA is an analog signal typically used on earlier computers. The signal is non-interlaced in modes 1, 2, and 3 and interlaced when using in mode 4.

YPbPr  Used to describe the colour space for progressive-scan. Otherwise known as component video.
Dimensions

**T1**
- RMS 8424 | RMS 8424S
  - 3/3.2kg

**T2**
- RMS 5533 | RMS 5533S
  - 2.5/2.7kg

**GX4**
- RMS-1A
  - 2.5kg

**MSP 200PRO**
- 0.8kg

**MSP 221 | MSP 219**
- 0.18kg

**MSP 203 | MSP 204**

**MSP 210 | MSP 225 | MSP 226**
- 0.31kg
<table>
<thead>
<tr>
<th>Feature Comparison</th>
<th>All-In-One Mixers</th>
<th>Universal Processors</th>
<th>Scalers &amp; Switching</th>
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<tr>
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<td>yes</td>
</tr>
<tr>
<td>4xM2 Support</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td><strong>Network Operation Mode</strong></td>
<td>M1</td>
<td>M2</td>
<td>M3</td>
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<tr>
<td>Routing</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Continuous</td>
<td>7</td>
<td>7</td>
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<tr>
<td>Continuous H.264H</td>
<td>440</td>
<td>256</td>
<td>128</td>
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<tr>
<td>2K Switcher</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Dual 2K Switcher</td>
<td>3</td>
<td>3</td>
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<tr>
<td>4K Split</td>
<td>=</td>
<td>1</td>
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<tr>
<td><strong>Digital Ref in</strong></td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Control from XPOSE</strong></td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>PST Preset Out</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>PPW Preview Out</td>
<td>yes</td>
<td>yes</td>
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<td>PPW H.264 Out</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>LED Sender Slot</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Audio</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Transitions FX</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>PIP/PBP</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Mask FX</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>DSK/Chroma</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>OSD/Text</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<td>EDID</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Hot Back-up</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Control from XPOSE</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td>M1</td>
<td>M2</td>
<td>M3</td>
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<tr>
<td>Rack Unit</td>
<td>14</td>
<td>7</td>
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<td>Width (mm)</td>
<td>462</td>
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<tr>
<td>Depth (mm)</td>
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</tr>
<tr>
<td>Height (mm)</td>
<td>131</td>
<td>131</td>
<td>131</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

* YPbPr (Component) is available on the VGA interface via adapter
* Continuous operations may be referred to as ‘Video Wall’ or ‘Standard’ mode
H Continuous operations with H.264 modules fitted. Refer H.264 IP Streaming Module
Specifications for details of multi-layer/Multiview features
+ options are available in addition to standard
L input/output is with Loop connector
b background layer (in addition to foreground layers)
## Order Codes

### All-In-One Scaing & Maxing

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>310-0003-31-1</td>
<td>M3</td>
<td>Presentation Processor and Vision Mixer with HDMI, PGM/PST &amp; P/W Modules, with Tally/USB Config Module with flightcase. Input &amp; AUX Output modules sold separately.</td>
</tr>
<tr>
<td>210-3072-12-0</td>
<td>M2</td>
<td>Scaler &amp; Vision Mixer with 3 pieces EXT fitted with PGM/PST, with P/W/Tally Module with flightcase. Input modules sold separately.</td>
</tr>
<tr>
<td>210-3072-20-0</td>
<td>M2e</td>
<td>Scaler &amp; Vision Mixer with 3 pieces EXT fitted with PGM/PST, with P/W/Tally Module in flightcase. Input &amp; AUX Output modules sold separately.</td>
</tr>
<tr>
<td>220-0001-01-0</td>
<td>M1</td>
<td>Scaler &amp; Vision Mixer with EXT 6 Input &amp; Output modules sold separately (cardboard carton packaged).</td>
</tr>
<tr>
<td>220-0001-02-0</td>
<td>M1 HDMI</td>
<td>Scaler &amp; Vision Mixer with EXT 4 &amp; 4x HDMI Input Modules with HDMI/SDI Output Module (cardboard carton packaged).</td>
</tr>
<tr>
<td>220-0001-03-0</td>
<td>M1 DVI</td>
<td>Scaler &amp; Vision Mixer with EXT 4 &amp; 4x DVI Input Modules with HDMI/SDI Output Module (cardboard carton packaged).</td>
</tr>
</tbody>
</table>

### Universal Processors

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>310-0014-01-0</td>
<td>X14</td>
<td>56x40 Universal Processor with 1 Power Supply fitted. Input &amp; Output modules sold separately.</td>
</tr>
<tr>
<td>310-0007-00-0</td>
<td>X7</td>
<td>32x23 Universal Processor with 1 Power Supply fitted. Input &amp; Output modules sold separately.</td>
</tr>
<tr>
<td>110-0003-41-0</td>
<td>X3</td>
<td>16x6 Universal Processor with 1 Power Supply fitted. Preview Module sold separately. Input &amp; Output modules sold separately.</td>
</tr>
<tr>
<td>310-10003-11-0</td>
<td>X3P</td>
<td>16x6 Universal Processor with 1 Power Supply fitted. with two Preview Modules. Input &amp; Output modules sold separately.</td>
</tr>
<tr>
<td>310-0002-01-0</td>
<td>X2</td>
<td>16x16 Universal Processor with Streaming Output Preview Module. Input &amp; Output modules sold separately.</td>
</tr>
</tbody>
</table>

### Presentation Processors

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>120-0004-01-0</td>
<td>D4</td>
<td>4K Dual Channel Presentation Processor with HDMI 2.0 and Coax Output Module. Other inputs and outputs are optional.</td>
</tr>
<tr>
<td>100-0628-03-0</td>
<td>VSP628pro</td>
<td>2K Dual Channel Professional Presentation Switcher.</td>
</tr>
<tr>
<td>110-0628-01-0</td>
<td>D6</td>
<td>4K Multi Channel Presentation Switcher with 1 Power Supply fitted. with Preview (PVM) Module. HDMI Fitted. Input &amp; Output modules sold separately.</td>
</tr>
</tbody>
</table>
### Switcher/Scalers

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-0001-02-2</td>
<td>X1 EXT</td>
<td>2K Scaler &amp; Switcher with EXT3 fitted</td>
</tr>
<tr>
<td>110-0001-12-0</td>
<td>X1pro EXT</td>
<td>4K Scaler &amp; Switcher with EXT3 fitted</td>
</tr>
<tr>
<td>110-0001-71-0</td>
<td>X1pro e</td>
<td>4K Scaler &amp; Switcher with EXT3 fitted</td>
</tr>
<tr>
<td>110-2000-04-0</td>
<td>CLU5</td>
<td>Scaler &amp; Switcher with SDI &amp; DVI standard, 1 available option slot</td>
</tr>
</tbody>
</table>

### Media Solutions

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>820-0001-01-0</td>
<td>UMS-4</td>
<td>Universal Media Server hardware, BYO operating system Inputs capture by optional input modules 4K Outputs by optional output modules</td>
</tr>
</tbody>
</table>

### Remote Control Consoles

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>250-0001-01-0</td>
<td>T1</td>
<td>Control Console for universal processors</td>
</tr>
<tr>
<td>250-0002-01-0</td>
<td>T2</td>
<td>Control Console for universal processors</td>
</tr>
</tbody>
</table>

### Preview Monitors

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-5533-01-0</td>
<td>RMS5533</td>
<td>Triple LCD Monitors with CVBS/DVI/VGA/HDMI</td>
</tr>
<tr>
<td>400-5533-02-0</td>
<td>RMS5533S</td>
<td>Triple LCD Monitors with SDI with CVBS/DVI/VGA/HDMI/SDI</td>
</tr>
<tr>
<td>400-8424-01-0</td>
<td>RMS8424</td>
<td>Dual LCD Monitors with CVBS/DVI/VGA/HDMI</td>
</tr>
<tr>
<td>400-8424-02-0</td>
<td>RMS8424S</td>
<td>Dual LCD Monitors with SDI with CVBS/DVI/VGA/HDMI/SDI</td>
</tr>
<tr>
<td>410-8424-01-0</td>
<td>RMS1A</td>
<td>Single 8.4in Display block with DVI-1 Input DVI/VGA/HDMI and USB Input</td>
</tr>
</tbody>
</table>

### LED Control Solutions

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>820-1004-01-0</td>
<td>GX4</td>
<td>Integrated Scaler and RGBlink LED Controller</td>
</tr>
<tr>
<td>820-0222-01-0</td>
<td>G3 Net CL</td>
<td>Integrated Scaler and LED Sender (Colorlight)</td>
</tr>
<tr>
<td>820-0222-02-0</td>
<td>G3 Net LN</td>
<td>Integrated Scaler and LED Sender (Linsn)</td>
</tr>
<tr>
<td>800-0004-01-0</td>
<td>DV4</td>
<td>DVI Distributor for 4 Sender Cards</td>
</tr>
<tr>
<td>800-0008-01-0</td>
<td>DV8</td>
<td>DVI Distributor for 8 Sender Cards</td>
</tr>
<tr>
<td>800-1004-01-0</td>
<td>TSH4</td>
<td>Housing for 4 Sender Cards</td>
</tr>
<tr>
<td>800-1008-01-0</td>
<td>TSH8</td>
<td>Housing for 8 Sender Cards</td>
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</table>
### FLEX Multi-Signal Matrix & Video Wall

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>710-0004-00-0</td>
<td>FLEX 4</td>
<td>4x4 Matrix Processor&lt;br&gt;EXT sold separately&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0004-01-0</td>
<td>FLEX 4M</td>
<td>4x4 Matrix Processor including EXTF-4M and EXTF-4OM&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0004-11-0</td>
<td>FLEX 4S</td>
<td>4x4 Splicing Processor (control from XPOSE)&lt;br&gt;including EXTF-4M and EXTF-4OS&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0008-00-0</td>
<td>FLEX 8</td>
<td>8x8 Matrix Processor&lt;br&gt;EXT sold separately&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0008-01-0</td>
<td>FLEX 8M</td>
<td>8x8 Matrix Processor including 2 EXTF-4M and 2 EXTF-4OM&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0008-11-0</td>
<td>FLEX 8S</td>
<td>8x8 Splicing Processor (control from XPOSE)&lt;br&gt;including 2 EXTF-4M and 2 EXTF-4OS&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0016-00-0</td>
<td>FLEX 16</td>
<td>16x16 Matrix Processor&lt;br&gt;EXT sold separately&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0016-01-0</td>
<td>FLEX 16M</td>
<td>16x16 Matrix Processor including 4 EXTF-4M and 4 EXTF-4OM&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0016-11-0</td>
<td>FLEX 16S</td>
<td>16x16 Splicing Processor (control from XPOSE)&lt;br&gt;including 4 EXTF-4M and 4 EXTF-4OS&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0032-00-0</td>
<td>FLEX 32</td>
<td>32x32 Matrix Processor&lt;br&gt;EXT sold separately&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0032-01-0</td>
<td>FLEX 32M</td>
<td>32x32 Matrix Processor including 8 EXTF-4M and 8 EXTF-4OM&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0032-11-0</td>
<td>FLEX 32S</td>
<td>32x32 Splicing Processor (control from XPOSE)&lt;br&gt;including 8 EXTF-4M and 8 EXTF-4OS&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
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</table>

### FLEXpro Multi-Layer Video Wall Controllers

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>700-0001-01-0</td>
<td>FLEX RS1</td>
<td>Rotation/Blending/Splicing Processor with 4K input &amp; 4x2K DVI Outputs&lt;br&gt;8x8/16x8 Video Wall Controller&lt;br&gt;EXT sold separately&lt;br&gt;Input &amp; Output modules sold separately</td>
</tr>
<tr>
<td>710-0008-01-0</td>
<td>FLEXpro 8</td>
<td>8x8 DVI Matrix&lt;br&gt;8x8 Composite Matrix&lt;br&gt;8x8 YGA Matrix&lt;br&gt;16x16 VGA Matrix</td>
</tr>
</tbody>
</table>

### Matrix

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500-0404-01-0</td>
<td>DXPD0404</td>
<td>4x4 DVI Matrix&lt;br&gt;8x8 DVI Matrix&lt;br&gt;16x16 DVI Matrix&lt;br&gt;3x8 DVI Distributor&lt;br&gt;1x8 HDMI Distributor&lt;br&gt;3x8 HDMI Distributor&lt;br&gt;HDMI 2.0 and HDCP 2.2 Compatible&lt;br&gt;1x8 HDMI 2.0 Distributor&lt;br&gt;3x2 DP1.2 Distributor&lt;br&gt;1 pair S/PDIF audio output&lt;br&gt;4x4 HDMI 2.0 Matrix&lt;br&gt;16x16 HDMI 1.3 Matrix&lt;br&gt;8x8 Composite Matrix&lt;br&gt;16x16 Composite Matrix&lt;br&gt;8x8 VGA Matrix&lt;br&gt;16x16 VGA Matrix</td>
</tr>
</tbody>
</table>
## Mini (MSP) Series-Testing Tools & Convertors

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>650-0200-01-0</td>
<td>MSP200PRO</td>
<td>Signal &amp; Test Pattern Generator with Plug Pack with ABS Protective Case</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SDI Input module sold separately</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Batteries sold separately</td>
</tr>
<tr>
<td>650-0221-01-0</td>
<td>MSP221</td>
<td>EDID Manager</td>
</tr>
<tr>
<td>600-0227-01-0</td>
<td>MSP227</td>
<td>DVI Cross Converter supports AV/YPbPr/Y/G/HDMI/DVI</td>
</tr>
<tr>
<td>600-0207-01-0</td>
<td>MSP207</td>
<td>VGA to Composite Converter</td>
</tr>
<tr>
<td>600-0203-01-0</td>
<td>MSP203</td>
<td>SDI to HDMI Converter with Audio Embedded</td>
</tr>
<tr>
<td>601-0203-01-0</td>
<td>MSP303</td>
<td>SDI to HDMI Converter with Audio Embedded</td>
</tr>
<tr>
<td>600-0204-01-0</td>
<td>MSP204</td>
<td>HDMI to SDI Converter with Audio Embedded</td>
</tr>
<tr>
<td>601-0204-01-0</td>
<td>MSP304</td>
<td>HDMI to SDI Converter without Audio Embedded</td>
</tr>
<tr>
<td>600-0210-05-0</td>
<td>MSP210V</td>
<td>VGA to SDI Converter with Scan Converter &amp; Scaler</td>
</tr>
<tr>
<td>600-0210-04-0</td>
<td>MSP210H</td>
<td>HDMI to SDI Converter with Scan Converter &amp; Scaler</td>
</tr>
<tr>
<td>600-0210-02-0</td>
<td>MSP210C</td>
<td>Composite to SDI Converter with Scan Converter &amp; Scaler</td>
</tr>
<tr>
<td>600-0210-03-0</td>
<td>MSP210D</td>
<td>Display Port to SDI Converter with Scan Converter &amp; Scaler</td>
</tr>
</tbody>
</table>

## Mini(MSP) Series-Extenders

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>610-0209-01-2</td>
<td>MSP209S</td>
<td>Ethernet to Single Mode Fiber Extender Set</td>
</tr>
<tr>
<td>610-0209-02-2</td>
<td>MSP209M</td>
<td>Ethernet to Multi Mode Fiber Extender Set</td>
</tr>
<tr>
<td>610-0214-01-2</td>
<td>MSP214</td>
<td>HDMI/DVI to Fiber Extender Set with SFP Module — refer Options</td>
</tr>
<tr>
<td>611-0214-01-0</td>
<td>MSP314</td>
<td>HDMI/DVI to Fiber Extender Set with lock (no SFP required)</td>
</tr>
<tr>
<td>610-0217-01-0</td>
<td>MSP217</td>
<td>SDI to Fiber Extender with SFP Module — refer Options</td>
</tr>
<tr>
<td>610-0216-01-2</td>
<td>MSP215</td>
<td>HDBaseT HDMI to Cat5e/6 Extender Set (max 100m), supports 4K@30</td>
</tr>
<tr>
<td>611-0315-01-0</td>
<td>MSP315</td>
<td>HDBaseT HDMI to Cat5e/6 Extender Set (max 100m), with POE, supports 4K@30</td>
</tr>
<tr>
<td>600-0225-01-1</td>
<td>MSP225</td>
<td>HDMI / H.264 Streaming Encoder</td>
</tr>
<tr>
<td>600-0226-01-1</td>
<td>MSP226</td>
<td>HDMI / H.264 Streaming Decoder</td>
</tr>
<tr>
<td>611-0201-01-0</td>
<td>MSP314-2</td>
<td>4K@60 HDMI/DVI Fiber converter, for 2 Fiber Set</td>
</tr>
<tr>
<td>611-0211-01-0</td>
<td>MSP314-1</td>
<td>4K@30 HDMI/DVI Fiber converter, for 1 Fiber Set</td>
</tr>
<tr>
<td>611-0212-01-0</td>
<td>MSP318-4</td>
<td>4K@60 HDMI/DVI Fiber converter (YUV 4:2:0), for 1 Fiber Set</td>
</tr>
<tr>
<td>920-0001-01-0</td>
<td>DVI-I Inline Active Extender</td>
<td>With DVI female input and DVI female output</td>
</tr>
<tr>
<td>920-0002-01-0</td>
<td>MSP216A</td>
<td>HDMI A Inline Active Extender with HDMI female input and HDMI female output</td>
</tr>
</tbody>
</table>

## Mini (MSP) Series-Distributors

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>620-0216-01-0</td>
<td>MSP216</td>
<td>1 DVI In/2 DVI Out Distributor</td>
</tr>
<tr>
<td>620-0216-02-0</td>
<td>MSP216H</td>
<td>1 HDMI In/2 HDMI Out Distributor</td>
</tr>
<tr>
<td>620-0219-02-0</td>
<td>MSP219-2</td>
<td>1 SDI In/2 SDI Out Distributor</td>
</tr>
<tr>
<td>620-0219-04-0</td>
<td>MSP219-4</td>
<td>1 SDI In/4 SDI Out Distributor</td>
</tr>
<tr>
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<td>MSP319-4</td>
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**Flightcases**

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## Modular Input Options

### Universal Single Modules

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* EXT Module is required for products using the 190-0001-XX-X modules. Check for installed EXT version compatibility at time of selection. Versions cannot be mixed within the same slot. Order Code for EXT are:

- 9B0-0003-01-1
- 9B0-0001-01-1
- 9B0-0003-01-2
- 9B0-0001-02-1
- 9B0-0001-02-2
- 9B0-0004-01-0

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<td>Quad USB2.0 Input</td>
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*When using 190-0003-xx-xx modules in X14 190-0014-00-0 input interface is required*

### D/VSP Modules

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Item</th>
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<th>D4</th>
<th>VSP6/8pro</th>
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### Modular Output Options

#### Universal Single Modules

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<th>M2</th>
<th>M1</th>
<th>FLEX 32</th>
<th>FLEX 16</th>
<th>FLEX 8</th>
<th>FLEX 4</th>
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<tr>
<td>790-0001-21-0</td>
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<td>790-0001-22-0</td>
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* FXT Module is required for products using the 790-0001-XX-X modules. Check for installed FXT version compatibility at time of selection. Versions cannot be mixed within the same slot. Order Code for EXT are:

- 980-0003-01-0 EXT4F O M Output Matrix Interface for 4 modules
- 980-0002-01-0 EXT4F O S Output Splicing Interface for 4 modules

#### Universal Quad Modules

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#### X2 Modules

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#### D/VSP Modules

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<td>Dual SDI Output</td>
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</table>
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