RGBlink™

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e-VOLVING TECHNOLOGIES

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CATALOGUE 2016

VENUS X Series
3rd generation switching, scaling & routing

AV DSP
seamless switching & scaling
hard edge blending solution

AV CPP
vision mixers
remote controllers

AV MVP
multi-viewers

AV RMS
preview monitors

AV DXP
DVI routing and distribution
VGA routing
CVBS routing

AV MSP
tools
mini convertors
mini extenders
mini distributors

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LED screen DVI distribution
LED screen Sender Cards

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RGBlink™

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 WHOLE 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

HDBT™ HDMI™ HDCP™

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VENUS X Series

X3 LIVE

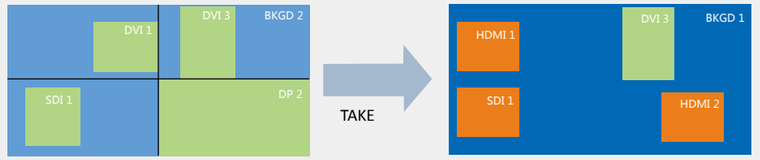
VENUS

Venus X3 Live brings together sophisticated presentation switching with advanced mixing capabilities into a single device. The vision mixer console includes broadcast style features for quick access during any performance, along with dual eight-inch LCD displays to monitor video sources, full preview, as well as live/program display monitoring. At the rear of the X3 Live, the familiar X3 modular routing platform become apparent, with a host of new options and features tailored to presentation applications.

Entirely modular, right down to fans, filters, and PSU, X3 Live is fitted as standard with modules for Preview and Monitoring, Communications and Genlock sync. From there, there is an impressive choice of both inputs and output options.
The on board displays can be configured to show outputs as physically arranged, or in any way. Large tactical illuminated buttons along with T-Bar mixing control. Powerful, yet compact, X3 Live is a fully integrated scaling, processing and mixing for professional environments from entertainment to integration.

16 Mega Pixel Capacity

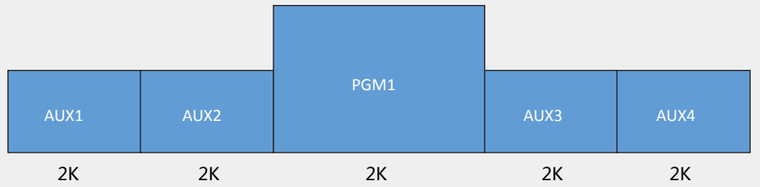
Include up to four foreground layers, setting positioning, scaling, and cropping as desired. Include a background layer, then TAKE to PROGRAM either mixing via the T-Bar or using an visual effect. The functionality is any-layer-to-any-layer, with a source able to be on both Program and Preview, each scaled and positioned individually. Layouts can be saved into pre-set banks for later recall by an operator on demand, without any sync loss and with smooth transition. Switching between pre-sets is seamless.



PREVIEW PROGRAM

Flexible Output Configuration

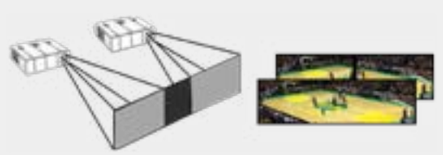
Each output can be configured for resolution independently – up to five separate outputs with the quad DVI output module fitted. Ideal for multi-pitch LED displays, for example. The outputs
can be arranged as a virtual canvas, or simply duplicated. Configure space for up to a maximum of 16 mega pixels. X3 Live is easily integrated into 4K environments.



Transition Effects, Soft Edge Blending and More

Not only fade and cut, select from a range of transition effects from preview to program. Make use of DSK and Chroma Key features for layered effect, and configure output with variable blending on any layer whether for overlay as PIP or PBP for soft edge blending.

DSK and Chroma Key



Blend Layer Edges

LOGO Capture and OSD

Images can be captured and stored for immediate recall, most commonly for use as logo overlays or a default display. The OSD feature allows text to be overlaid with or without background colour, and includes scrolling capability. OSD is ideal for messaging. Both LOGO capture and OSD can be keyed for effect.

Modular Design Throughout

Input and output modules, along with accessory modules use the RGBlink SmartSlot system for ease of exchange and user selection.
The PSU is exchangeable also, with facility for the fitting of a redundant PSU too.

Venus X3 is a unique presentation processor. Supporting up to sixteen inputs and up to eight full HD outputs, signal selection is user configurable with a wide range of smart modules available.

Scalable and expandable Venus X3 can operate in a variety of modes – presentation mode with full program to preview capability, video wall mode with up to 10 simultaneous video layers, or matrix mode for signal routing resolution switching and transcoding.

With output options including DVI and 3G-SDI, X3 it at home in performance, integration and broadcast markets.

Uniquely, options for X3 include direct USB playback – MPEG4 videos can not only be played back directly from X3 with USB modules fitted, but also scheduled and included in pre-sets.

The 3rd generation Venus platform provides high performance video scaling and superior image quality.

Multiple Venus X3 devices can be cascaded to create very large display arrays with full sync thanks to the built-in Genlock support, and a dedicated high speed video/graphic bus maintains real time performance even under heavy input loads.

Available in two variants, X3 touch includes an on board touch screen for hands-on immediate control, while the X3 express model can be controlled from any one of a range of remote apps or the CP2048 remote control console.

Venus X3 provides a high performance, highly reliable display processing solution – ideal for a wide range of applications from live presentations to mission critical 24/7 monitoring environments and broadcasting systems.

X3 Express

X3 Touch

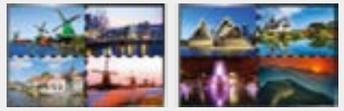
Rear Panel

16 Mega Pixel Capacity

Output up to 16 Mega Pixels for up to 8192×2304@60Hz output. Venus X3 is easily integrated into 4K environments, and X3 is an ideal pixel splicing solution for multi-pitch LED displays.

Layer Merge

For Preview or control room operations, inputs can be merged into single layers



DSK

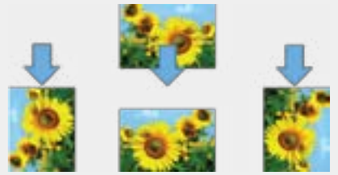
Any layer can be a Downstream Key either Lumia or Chroma

Zoom

Venus X3 includes RGBlink 3rd generation high performance scaling engine ensuring the most impressive image quality whether zooming in or out, perfectly maintaining sync even where images overlap separate outputs.

Rotation

Rotate and flip. Outputs can be rotated in 90 degree increments



Modular Power Supply

A redundant hot-swap power supply option is available on request, enabling supply from independent sources and auto switching with no down time for mission critical applications.

Modular Design

Wide range of options for signal input and output are available – these smart modules are user fit and automatically identified by the X3. There are four input slots, and two output slots

Remote Control

Venus X3 offers the ultimate in remote control choice. Not only is there a native Windows® app, X3 offers a native Apple® OSX app for video professionals. In recognition of modern communications RGBlink has apps for iPhone, iPad and Android. And Venus X3 has an optional remote control console, the CP2048, ideal for intensive live operations.

X7 VENUS

Venus X7 is an HDCP compliant, scalable and extendable routing and video wall processor configurable to support a variety of inputs and outputs and windowing capabilities. X7 features RGBlink 3rd generation high performance video scaling technology for excellent image reproduction. X7 has a modular design, the card frame style, SmartSlot system allowing installation of up to 32 inputs and 32 outputs. Signals supported include SDI, HDMI and DVI, as well as DisplayPort, VGA, and USB direct input. Any input can be scaled, positioned, routed, transcoded to any output or be assembled as layers across outputs. Output capacity is a massive 64 mega pixels. Built for intensive switching and routing applications, the modular design extends to all aspects of the X7 for reliable and durable service.

Multi-Mode Operation

Configure X7 as a matrix, as a continuous display for video wall operations, or as a presentation switch for seamless switching.

Route/Matrix Video Wall Presentation Switch

Genlock Built-in

Genlock sync in and out is included and built into X7. Genlock is resolution configurable for provision to other devices.

4K Standards Support

X7 supports UHD 4K and other 4K formats at up to 60Hz with HDMI and DisplayPort. This expands the range of applications for X7 to the most modern installations.

Configure and Control

All configuration and control is undertaken remotely via either USB or Ethernet connected laptop or mobile device. The RGBlink software is available for both Windows® and Apple OSX® platforms. Software features include drag-n-drop for easy placement of input layers onto the output canvas.

3D Processing On Board

X7 can process 3D signals for output, as well as convert and encode 3D signals

Up to 128 Layers

A fully configured X7 can support up to 128 layers, positioned and scaled in way. X7 offers an unprecedented control and freedom simplifying complex routing and video wall display applications dramatically.

License Mode Operations

License Mode on X7 is a new feature enabling new revenue opportunities where installation operations may be time or subscription based. X7 offers powerful user control features to allow X7 to be applied across an even wider range of applications.

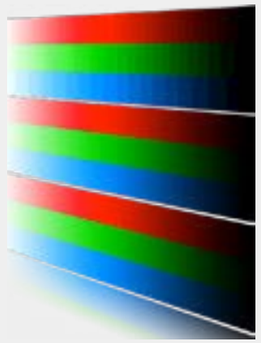
Configure Control & Monitor

All configuration and control is undertaken remotely via USB or over Ethernet. X7 also offers a Wi- Fi hotspot for dedicated connectivity. Software is available for both OSX® and Windows® platforms as well as popular mobile devices.

X7 offers more than configuration, with remote source monitoring available within the RGBlink RoVA™ software via H.264 streaming.

12G-SDI Ready

With end to end 12 Bit 4:4:4 Signal Processing for superior image quality, the X7 processing engine can support 12G-SDI signals for 4Kp60 on SDI.



Venus X2 is a revolutionary RGBlink product. A beautifully designed, compact 2RU form factor device ideal for fixed pro AV and integration applications.

Universal routing and scaling, built on the RGBlink Venus platform, X2 has a fully modular input and output structure that supports up to 16x16 inputs and outputs.

Control and configuration is achieved via wired or wireless LAN and the RGBlink apps for Windows, Mac and mobile.

Now with 16x16 input/outputs X2 is even more powerful and flexible - whether as a routing matrix, presentation processor or a video wall processor. And X2 scales with LayerLink™ uLink™ and Genlock built-in allowing multiple devices to operate seamlessly as one system.

A dedicated preview output is available, exchangeable for H.264 IP streaming output, extending monitoring solutions to other devices on the network. And an optional hot-swap/redundant power supply can also be fitted.

SmartSlot™ Fully Modular Design Throughout

Input & Output along with Comm. and Preview cards feature RGBlink SmartSlot™ technology. SmartSlot offers auto-identification and setup of the X2 based on the option modules fitted. No hardware setup of X2 is required when exchanging or adding a module to any slot. Simply configure the X2 for use creating layers and arranging outputs.

Fitting or exchanging modules into a SmartSlot is tool free, no internal access to X2 is needed.

Input Cards

A range of digital input cards are available. X2 has four input card SmartSlots, each slot supporting upto four inputs of the signal selected. This allows up to 16 individual input sources.

DVI, HDMI, VGA, 3G-SDI, CVBS and USB are available, as are DisplayPort, HDBaseT, FiberPort and H.264 IP Streaming.

Output Cards

X2 offers an impressive capability with up to 16 digital outputs of 2K @ 60fps available. These outputs are user selected in layer cards of three or four signals. Each layer card has four independent scaling processors which can be used for multilayer applications or directed for output. Options are 3G-SDI, DisplayPort, HDMI, DVI, VGA, HDBaseT and FiberPort.

Comm. Ports

X2 comes fitted as standard with a communication card offering LAN , uLink™ - the RGBlink device sync protocol, as well as GenLock and HDMI Sync connectivity.

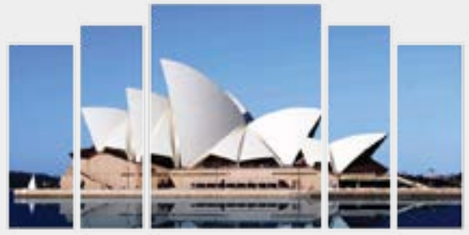
This standard Comm. module can be exchanged with the Wi-Fi Comm. module, allowing X2 to be a Access Point for remote control Apps.

Preview Ports

X2 includes dedicated preview outputs with both DVI and VGA connectors.

And RGBlink brings H.264 streaming to X2 as an optional module. The standard Preview Ports module can be exchanged for a Video Streaming over IP module. Another unique X2 feature.

Arrange layers across multiple outputs



Output to multi-resolution display systems

Easy to use software

Rotate and mirror

Use Chroma Key

Modular Design

Wide range of options for signal input and output are available – these smart modules are user fit and automatically identified by the X2. There are four input slots, and four output slots, along with slot for preview/ streaming module. Further the fan module is removable for cleaning and maintenance

Modular Power Supply

A redundant hot-swap power supply option is available on request, enabling supply from independent sources and auto switching with no down time for mission critical applications.

4K Professional Switching

4K switching has never been more practical and straight forward. The modular X1 platform allows the addition of a range of signal options over and above the standard inputs. Standard inputs include 4K signals on Dual Link DVI, HDMI and DisplayPort. Output to DisplayPort as 4K or scale and split across dual 2K DVI outputs. For those needing 4K distribution and splicing on four DVI, simply add the additional output module. The output module expands X1pro to four 2K DVI outputs and adds a further DisplayPort output.

Alternately, X1pro with the output module can be become a 4K presentation switcher with the additional DVI outputs (and DisplayPort) becoming a full Preview.

All the power and flexibility familiar with RGBlink X Series.

Simply Professional
4K Scaling and Switching

Features

- Input support on DisplayPort, HDMI and DVI
- Input standard 2K formats
- Scale and switch seamlessly between 2K and 4K inputs
- Output to any format 2K or 4K
- EDID Management on board
- HDCP 2.0 compliant
- DisplayPort 1.2 with MST
- Modular design
- Options for expandability
- Control your way either on board or with a range of remote apps

Seamless Switching

Use the large illuminated buttons switch between inputs seamlessly. X1pro also allows source pre-selection for accurate TAKE.
When the output expansion card is fitted, X1pro can optionally be set to Switcher Mode, with the additional DVI outputs and the additional DisplayPort allowing full Preview monitoring with TAKE to output.

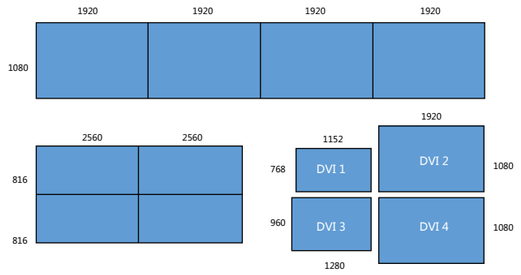
Up to 4K UHD Input

Built on standards, X1pro supports input signals up to UHD 3840x2160 on any of the inputs. Any input independent of resolution and refresh can be switched seamlessly to output.

Splice DVI Outputs in Any Configuration

Output 4K including UHD as standard via DisplayPort, or scale and splice to the two standard DVI outputs. For 4K distribution to four DVI outputs, add the additional output module.

With the output expansion module fitted, four DVI outputs of X1pro can be spliced or arranged as desired, for example as 8Kx1K pixels or 4Kx2K pixels.

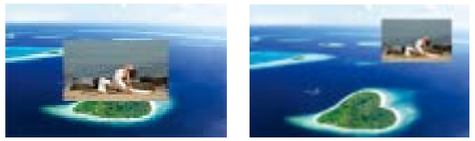


Connect and Expand

X1pro includes the unique RGBlink system for installing common LED Display Sender Cards directly into the processor, saving valuable installation space and reducing complexity. The design allows up to two standard Sender Cards or one dual height Sender Card to be installed when the output expansion card is not fitted.

Picture in Picture

Add a Picture in Picture (PIP) or Picture-By-Picture (PBP) using one of the build in pre-sets. The PBP feature is ideal for splitting 2 inputs across 2 outputs. Many possibilities with the PIP/PBP feature including for keyed text overlay.



Modular Design

Adding additional inputs to X1pro is straight forward. Three input slots are available for a range of options – the same options that are available for X1. These include 2K options for USB, SDI, DVI, HDMI and VGA.

Control Your Way

All X1pro functions can be controlled from the front panel, and in addition, RGBlink offers a suite of apps across popular platforms for both laptop control and mobile control. Simply connect X1pro to an Ethernet network, or create a hotspot with the X1 Wi-Fi option.

VENUS X Series

X1 VENUS

A ground breaking economical solution for professional scaling and switching, X1 is a popular choice for LED display applications.

With all the essential inputs – HDMI, DVI, VGA and CVBS – X1 uniquely allows up to three user fit input modules to be installed. Choose from a wide range of input options including DisplayPort and the popular USB direct input amongst others including 3G-SDI.

Dual DVI outputs, along with a VGA monitor output are provided. One of the DVI ports can be configured to be DVI loop or DVI output.

X1 supports up to standard LED Sender Cards installed in to the X1 for the ultimate in convenience.

X1 is fully configurable from the OLED display, while large illuminated buttons provide clear and tactile operations for switching and scaling.

Additionally, X1 can be remote controlled from iPhone, iPad, Android, Windows and Mac native apps when placed on a LAN.

Next generation professional seamless switching and scaling

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

Features

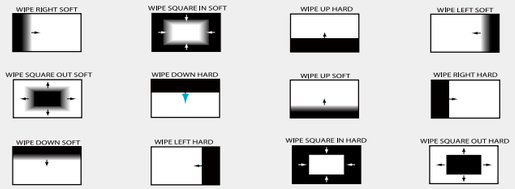
- Seamless switching between any source
- Scaling with configurable Horz & Vert offsets
- Image Enhancement
- Transition Effects
- Split function
- PIP from any source in any position and size
- Up to 2048x1152@60Hz / 2560x816@60Hz
- On board EDID Management
- HDCP compliant
- Easy, intuitive operation
- 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.

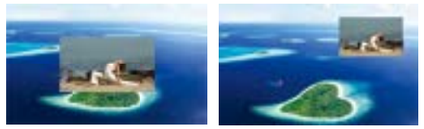
Transition Effects

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



Picture in Picture

Include a PIP from a range of standard presets including PBP (Picture-By-Picture) Pre-sets.



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.

VENUS X Series

Seamless Switches & Scalers

VSP 628PRO

The new standard in presentation switching, VSP628pro is so much more than a seamless switcher.

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 enabling VSP628pro to operate in Standard (PIP) mode, Switcher mode, Dual 2K mode, Split mode or MinDelay mode

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 DVI/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.

A range of additional input options are available including additional 3G-SDI ports (there are already two 3G-SDI with loop as standard), USB direct input.

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.

Visual Effects

Apply a range of visual effects and enhancements.

Picture In Picture

In Standard Mode, PIP can be applied in any size or position.

DSK/Chroma Key

On PIP, DSK or a Chroma Key can be applied, great for logos and text overlays.

Scale

Scale output(s) to any size within the selected resolution range.

Crop & Position

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

Mask

Set output masks for top, bottom, left and right or select from a preset.

Noise Reduction

Where signals are of low quality and displaying noise / scatter, apply the VSP628pro Noise Reduction feature to reduce the impact of the noise on the output signal and improve visual performance.

Rotation and Flip

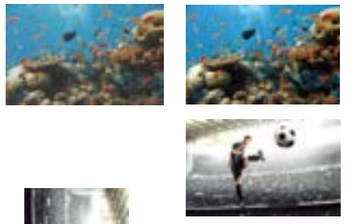
Output may be rotated, flipped horizontally or vertically.

Format

VSP628pro accepts most common input formats, and outputs in an even greater array of recognised industry standards up to 2560x816@60Hz. Additionally VSP628pro allows users to specify any custom output resolution with in this range.

Configure EDID

Each compatible input can be individually configured for EDID.



VSP 5360

Combining advanced video scaling technology with RGBlink technology, VSP5360 supports seamless switching between any of up to 14 inputs on 4+4 layers with full Preview to Program. Additionally, VSP5360 has a four channel matrix/router operation mode, making VSP5360 a powerful solution for signal distribution whether for performance or pro AV.

VSP5360 includes 10bit motion adaptive de-interlace, advanced noise reduction and detail enhancement features. Cross-frame rate conversion (transcoding) and pixel-by-pixel scale and zoom make VSP5360 a powerful performer, with up to 4Kx1K output. Output is available both to DVI and VGA.

The range of standard inputs – which include SDI, CVBS, VGA, DVI and DisplayPort – can be expanded with user fit optional modules including USB direct playback and 4K DP/HDMI. VSP5360 includes 2 dual Sender Card in-board slots – RGBlink is a leader in integrating LED systems with video processing.

Uniquely, VSP5360 also includes support for not only embedded audio, but external audio sources on all twelve standard inputs, as well as separate audio outputs for program and preview.

Control VSP5360 with the optional CP2048 console which adds familiar T-bar mixing control along with joystick control for sizing and positioning. Multiple VSP5360 processors can be controlled together using the CP2048 remote controller.

Full solid-state advanced video processing VSP5360 is a powerful solution for multi-layer video presentation applications. With multiple operation modes, VSP5360 contains a powerful feature set.

Visual Effects

Dynamically apply a range of visual effects and enhancements.

Configure EDID

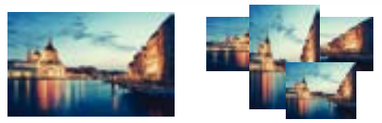
Each compatible input can be individually configured for EDID.

Switcher Mode

In switching mode operations, VSP5360 offers two signal selection methods. Up to four video layers can positioned and scaled freely in PREVIEW, then transitioned to PROGRAM.

Scale Pixel-by-Pixel

Scale output(s) to any size within the selected resolution range.



Scale Format

VSP5360 accepts most common input formats and outputs and an even greater array of recognised industry standards up to 2560x816 @ 60Hz. Additionally VSP5360 allows users to specify any custom output resolution with in this range.

Matrix Mode

VSP5360 offers a routing and scaling matrix system option. Any layer can be routed to any of the four outputs (two DVI and two VGA) independently. Each layer/output can be separately scaled and be with individual attributes.

Seamless Switches & Scalers

VSP 9516S

VSP9516 uniquely integrates video scaling technologies and LED Display Sender Cards.

For PC free set up and configuration of LED displays, in an efficient easy to use single device, VSP9516 is an integrated solution designed with the LED display user in mind.

No other video processing company understands the demands of LED display technology better than RGBlink.

To support the wide and varied source requirements VSP9516 includes as standard three composite (CVBS) inputs, along with DVI, S-Video, VGA, Component (YPbPr), DisplayPort and SDI inputs. Additionally, there is audio switching for every input, whether embedded, or from an external source.

Switch seamlessly between any input - inputs can be converted, scaled, transcoded to the DVI outputs and to Sender Cards. Available with either dual ColorLight or dual Linsn integrated Sender Cards, VSP9516S allows direct on board setting of key LED display settings that are usually only available via PC software. With VSP9516 set not only Display Connection, but also Display Area, Port Offsets, Brightness and Gamma attributes of each Sender Card. From the front panel of VSP9516 see Power and Signal status of each Sender Card.

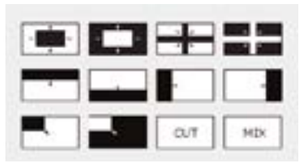
Any input can be assigned to PIP, and a range of PIP formats are available. A wide range of transitions are built-in for both cut/fade and dynamic effect.

Scaling

Scale to any output format using standard formats or user defined output format. Scale to any size pixel-by-pixel

Transitions

Make use of built in transition effects.

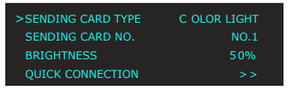


PIP Modes

Use stand Picture-In-Picture and Picture-by-Picture pre-sets.

Audio Control

Sender Cards Built-In



Seamless Switches & Scalers

VSP 5162PRO

A single rack unit switcher and scaler, VSP5162pro is an update of the earlier models, retaining popular one-touch features while adding support for modern input signal sources - in particular VSP5162pro includes two DisplayPort inputs.

VSP5162pro also includes digital Genlock capability on DVI, and output can the familiar switcher mode or as dual channel, allowing split images across the two DVI outputs up to 4K x 1K or 2K x 2K.

Digital Genlock input allows reliable source sync, a feature unique to products in this class.

Advanced features such as Noise Reduction, DSK and EDID are built-in. Additionally, VSP5162pro can be expanded with range of additional inputs including extra 3G-SDI, DVI, VGA, CVBS inputs, or USB direct play-back.

Familiar and easy to use, VSP5162pro can also be controlled remotely from Windows app or RGBlink iPad, iPhone and Android apps.

Easy to Use Switcher

Separate Program and Preview outputs in switcher mode for each of the two DVI outputs, with a VGA output as dedicated preview even in Split operations.

Seamless Switching

Cut or Fade to program, whether in switcher or split (4K x 1K) operations. Fade can be user set from cut up to 10 seconds.

Wide Resolution Support

Common and standard input resolutions are supported, while an extensive range of output resolutions are available, as are user definable output resolutions.

Scale & Configure

Scale between source resolutions and outputs, and scale pixel-by-pixel, as well as zoom and crop.
Adjust for visual effect including for Brightness, Contrast, saturation and more.

PIP

Use Picture-In-Picture (PIP) or Picture-By-Picture (PBP) pre-sets or configure and position to requirement. cut or fade between PIP/PBP sources.

EDID and Digital Genlock

Read, Write and set custom EDID. With a DVI3 source, GENLOCK can be enabled

DSK

Down Stream Key (DSK) is available to overlay via PIP with a range of set of background colours that can be keyed against.

Seamless Switches & Scalers

VSP 3550

Combining advanced video scaling technology along with seamless switching technology, VSP3550 provides for up to 8 inputs plus a pair of DVI inputs for 4Kx1K input.

Output can be split over four DVI 2K outputs, and there is dedicated monitor output. Output pre-sets are available for quick, one touch setting. This mosaic processor is ideal for splicing applications.

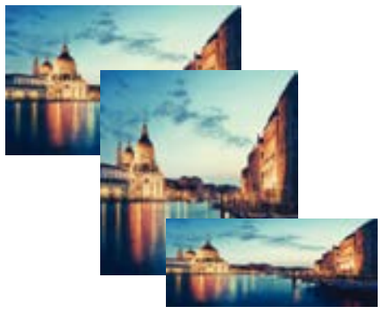
Each of the inputs has direct access one-touch buttons on the front panel also, ideal for live seamless switching.

PIP is available on board along with functionality for text overlay with solid colour backgrounds or keyed using the second layer.

With a capacity of 8 mega pixels, VSP3550 combines operational simplicity with powerful performance.

Scale & Configure

Scale between source resolutions and outputs, and scale pixel-by-pixel, as well as zoom and crop. Dedicated SCALE, CROP and POSition buttons are available on the front panel.



4x1 Input Split

Unique dual 4Kx1K input port allows split configurations.

Seamless Switching

Fade or Cut Seamless transitions

Splicing Outputs

Output can easily be distributed across the four DVI outputs provided from the quick access buttons on the front panel.

Dual Layer

Output two sources, position and overlay freely.

Seamless Switches & Scalers

Vision Mixers & Controllers

CP 3072

RGBlink
MULTI-FORMAT VIDEO SWITCHER CP 3072
LOAD
SAVE
PAGE
INPUTS
PST
PGM
FORMAT
BRIGHT
POS
CROP
SCALE
MENU
ENTER
TRANSITION
TIME
CVBS
VGA
HDMI
USB
SDI
INPUT SOURCE
DSK
BLENDING
PIP
CUT
MIX

All in One Vision Mixer & Scaler

When vision mixing is needed from a variety of sources, the RGBlink CP 3072 provides a comprehensive feature set. With three output channels – one for Program, one for Preview and one for source multi-view. Plan your mix from any of up to 16 sources.

Output for presentation can include PIP (Picture in Picture) in any size or position – or use common quick access pre-sets provided. A blend feature allows a PIP edge to be softened, blending with the underlying video layer.

TAKE the Preview to a live Program using the familiar broadcast style T-Bar with seamless switching, or select a timed transition effect and TAKE using the dedicated button.

A dedicated source multi-view output is built-in – always know the currently available and selected input sources, and a standard TALLY output equips with CP 3072 for use with broadcast systems, working together with the multi-view preview with Red, Green and Yellow borders in preview.

Use the DSK feature with a PIP layer to key in a subtitle or overlay a logo.

Output video up to 1920x1080 @ 60Hz – a wide range of formats can set from the output from dedicated button.

With Scale, Crop, Position – CP3072 is truly an All-In-One vision mixing and scaling solution in a compact ready-to-go format.

Four Independent Input Channels

Each channels is separately selectable for any one of four input types VGA, CVBS, USB, and either HDMI or SDI (depending on model). A total of 16 inputs across 4 channels is available.

Seamless Switching

Switch seamlessly between outputs for precise performance

Playback Directly from USB Media

USB flash drives with video and popular image formats can be plugged into CP3072 as sources. Files can be selected for playback including looping.

EDID

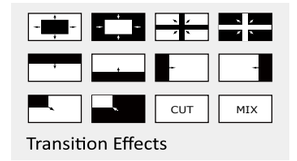
Read, Write and set custom EDID.

Scale / Crop / Position

At preview, output can be scaled, cropped and positioned. Ideal for use directly with LED displays. No separate scaler is required.

Transition Effects

In addition to CUT and FADE, CP3072 includes a wide range of transition effects with variable time setting. Quick select buttons provide easy access prior to TAKE



Transition Effects

Picture in Picture

Any active source can be used as a PIP layer. PIP can be positioned using the built-in pre-sets, or in any way. Variable blending is available also for no-frame soft edges blended to the main picture.

PIP

DSK

Overlay text or a logo using the built in DSK feature, or use Chroma Key to overlay video using a keyed background.

CP 3072
(HDMI Inputs)

CP 3072S
(SDI Inputs)

CP 2048

Remote Control Plus

CP2048 provides a console / vision mixer style remote control solution for Venus X3 products and the VSP5360.

The console features a familiar T-bar handle for vision mixing selected sources to output. A large LCD display offers intuitive set up and configuration including touch support., while large illuminated buttons are provided throughout which give the user visual feedback and positive tactile contact for reliable action.

A multi-function joystick is provided for positions and sizing of layers and other attributes. This joystick offers three-axis control.

When CP2048 is used to remote control X3, fly-in-fly-out layer effects can be utilised, adding further power to an X3 installation.

Joystick Control

Positioning layers and windows has never been so easy. The joystick has variable speed X&Y as well as fine control adjustment.

Transition Effects

A range of digital effects are available for transitions in addition to standard FADE and CUT operations.

Connectivity

Connect CP2048 to Venus X3 or VSP5360 in a variety of ways. Including Ethernet, RS232 or USB.

Multi-Viewers

Multi-Viewer & Vision Switcher

MVP 8043

MVP 8043 is an eight input professional Multi-viewer for broadcast applications or video wall control switching. Entirely solid-state, with MVP8043 there is a convenient ten window multi-view available via the Preview output for immediate viewing of available sources along with both the selected Preview and Program.

The multi-viewer features eight inputs – 4 SDI (up to 3G) as well as 4 DVI inputs. The Preview output is available with both SDI and DVI signals, as is the Program output.

With 10bit processing, MVP8043 offers high quality video processing and the very minimum of delay, for the best performance – allowing users to take full advantage of NLE high end broadcast equipment through to display.

Scale & Format for Output

Set the output resolution but selecting from a wide range of standard SMPTE and VESA formats, or set a customized output resolution. Scale, position and crop image for output.

Multi-View Preview

Display all eight sources along with both Preview and Program on a single monitor. Coloured borders around source Preview and Outputs provide standard Tally like user feedback. Each source can have user set label on screen label, for easy identification of video sources.

Transition Effects

A range of transition effects are available with variable speed and variable Alpha transition timing. Two effects can be assigned to the dedicated MOVE buttons on the front panel for immediate access, while Alpha time can also be pre-set for the next TAKE from the front panel button.

Monitoring Solutions

Dual Preview Monitor

RMS 8424

When multi-signal monitoring is needed RMS 8424 is a fully featured dual eight-inch solution.

In a convenient 4RU format, RMS 8424, each LCD monitor is 16:9 1024×600 pixels.

On board menu allows quick selection of desired input source, and a host of convenient features including markers and settings for underscan/overscan and more. Additionally, a zoom feature is included for closer inspection of central image area.

Viewing angle can be adjusted by tilting the rack mount monitor assembly.

The externally mounted power supply can easily be demounted when for example, RMS 8424 is mounted in confined control desk spaces.

Audio

For signals with embedded, sound can be previewed via the built in speaker for each monitor, or headphones via the 3.5mm stereo jack.

Tally

Tally system is built-in for broadcast style applications, with LED tally indicator above each monitor.

USB Preview

RMS 8424 uniquely allows inserting of USB media for local preview/ inspection on each monitor.

Resolution Support

Standard input resolutions up to 2048x1152@60Hz and 2560x1152@50Hz are supported. RMS 8424 includes auto resolution detection.

Connectivity

RMS 8424 is standard with CVBS, DVI and VGA with SDI optional (RMS 8424S).

Triple Preview Monitor

RMS 5533

Featuring three 5 inch monitors, RMS 5533 is a fully featured compact monitoring solution.

Each of the three 16:9 LCD monitors is 800×480 pixels.

Input source selection is available from a dedicated button, as is ratio control. Additionally, there are two function buttons that can be user assigned.

The menu contains a features including markers and settings for underscan/ overscan and more. Additionally, a zoom feature is included for closer inspection of central image area.

Viewing angle can be adjusted by tilting the rack mount monitor assembly.

The externally mounted power supply can easily be demounted when for example, RMS 5533 is mounted in confined control desk spaces.

Audio

For signals with embedded, sound can be previewed on headphones via the 3.5mm stereo jack provided for each LCD monitor.

Tally

Tally system is built-in for broadcast style applications, with LED tally indicator above each monitor.

USB Preview

RMS 5533 allows inserting of USB media for local preview or inspection on each monitor.

Resolution Support

Standard input resolutions up to 2048x1152@60Hz and 2560x816@60Hz are supported. RMS 5533 includes auto resolution detection.

Connectivity

RMS 5533 is standard with CVBS, DVI and VGA with SDI optional (RMS 5533S).

Signal Routing and Distribution

DVI 16x16 Matrix

DXP D1616

For High performance matrix switching, DXP D1616 for DVI connection supports both DVI & HDMI signals and is fully HDCP compliant. Standard resolutions up to 2048x1152 and HDTV 1080p/60 can be switched to one or more compliant displays.

Extended Display Identification Data (EDID) management is available on board and can be configured from the LCD display.

One touch buttons to select input to output are on the front panel. Additionally, there is TAKE function allowing pre-sets to be switched.

There are 24 pre-sets available, to which matrix settings can be saved and loaded (recalled).

Configuration and operation can be undertaken remotely from the RGBlink Windows® software application included.

DXP D1616 is ideal for demanding applications where low latency matrix routing is required.

DXP D0808

Compact matrix and routing for 8x8 DVI inputs/outputs, DXP D0808 is only 1RU.

From the front panel configuration can be done via the LCD display, and signal routing easily made from the one-touch buttons for each input and output.

EDID management is available from the menu also, with DXP D0808 support not only DVI signals, but also HDMI. DXP D0808 is HDCP compliant allowing switching and routing of signals to one or more outputs.

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.

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 A0808

Compact matrix and routing for 8x8 Composite/CVBS inputs/outputs, DXP A0808 is only 1RU.

From the front panel configuration can be done via the LCD display, and signal routing easily made from the one-touch buttons for each input and output.

Multiple units can be linked via serial, and remotely configured from Windows software.

DXP A1616

Make use of DXP A1616 for matrix solutions of CVBS signals – up to 16 inputs and 16 outputs. At only 1RU, DXP A1616 takes only minimal rack space, yet is easily configured from the front panel which includes LCD display for setting and configuration.

DXP V1616

At only 2U, DXP V1616 packs in 16 VGA inputs and 16 VGA outputs into this reliable matrix unit.

Routing selection is made easily from the front panel with numbered keys and an LCD display.

Configuration of all settings can be made from front panel, and Multiple units can be linked via serial, and remotely configured from Windows software.

Mini Convertors, Extenders, Distributors

EDID Manager

MSP 221

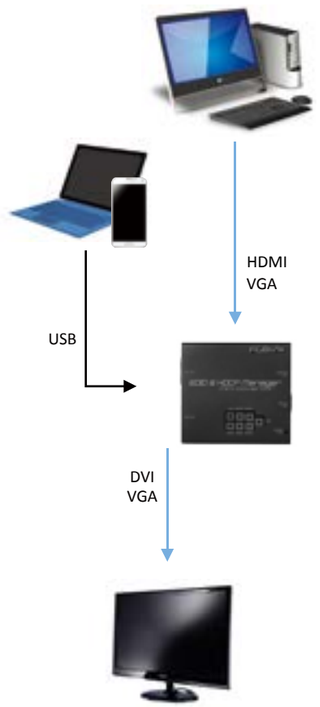
In modern digital video, Extended Display Identification Data (EDID) allows display devices to describe specification information to the video source equipment.
Using MSP 221 can resolve and prevent a number of EDID related issues, ensuring the expected output from a video source device by broadcasting 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.



Digital Signal Generator

MSP 200

- Interactive TFT Touch Screen
- Multi-Format Signal Generator
- Test Pattern Generator
- SDI, DVI/HDMI, CVBS Outputs
- GenLock Reference Outputs
- Time Code

Designed for the professional video engineer, the RGBlink MSP 200 Digital Signal Generator provides a known signal source in a selectable range of common formats along with a range of standardised test patterns.

Signal output is to dedicated SDI, CVBS and DVI connectors, with the DVI connector also supporting HDMI 1.3. and VGA. The DVI output format can be selected via the touch screen.

GenLock reference outputs are also included to synchronise the output to the test device - both HS & VS.

A stereo audio output of an electronic music sample loop is provided via stereo mini jack for basic audio line diagnosis.

MSP 200 also embeds Time Code into the output signals, allowing frame delay to be measured through a system.

The MSP 200 Digital Signal Generator includes a standard 12V Plug-Pack and can optionally fitted with a battery pack for the ultimate in portable use.

Software is also available, allowing remote control of MSP 200 from a PC via USB

Mini Signal Convertors

MSP

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, 1360x768, 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, 1360x768, 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.

MSP210V – VGA | SDI with Scan Convertor

VGA in VESA formats at 60Hz (800x600, 1024x768, 1280x720, 1280x768, 1280x800, 1280x1024, 1360x768, 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 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 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 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, 1080i60, 1080p50, 1080p59.94, 1080p60

HDBaseT® and Fibre Signal Extenders

MSP

MSP 215 – HDMI | HDBaseT

Extend HDMI easily via CAT5 or CAT6 cables with HDBaseT®.
Delivered as a set of two, with a transmitter and receiver, MSP 215 can extend up to 60m over Cat 5 cable or up to 260m on Cat 6 cables. MSP 215 supports 4K ULTRA HD resolutions (up to 3840x2160 @30Hz) and 1080p Full HD (1920x1080 @ 60Hz), as well as the pass-through of HDCP and High Bit Rate (HBR) lossless audio formats such as Dolby® TrueHD and DTS-HD Master Audio™. 3D content is supported when a 3D-capable display and 3D source are connected. DVI-D is also supported when used with HDMI to DVI adapters, providing greater flexibility and options when integrating commercial displays.

MSP 224 – 4K DISPLAYPORT | FIBRE

This DisplayPort 4K to Fibre Extender is designed for transmission of 4K DisplayPort signals, and is delivered as a Transmitter and Receiver pair.

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 214 – DVI | Fibre

Delivered as a Transmitter and Receiver set, MSP214 features DVI-I connectors supporting DVI 1.0 signals up to 2560x816@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 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 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”.

Compact Signal Distributors

MSP

MSP 216 – DVI

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

MSP 216H – HDMI

This compact distributor accepts a HDMI output, duplicating it for distribution

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.

MSP225 – HDMI to H.264

This compact convertor 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.

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 Garage

Convenient rack mounting for standard MSP devices. This MSP Garage fits up to 10 MSP and includes in built PSU – no separate plug-packs needed. MSP devices are securely mounted including space for heat management and cable routing.

LED Display Control

DVI Distribution

TSH 8

With the increased resolution and size of LED displays, containing LED Sender Cards in a reliable and convenient format has never been more important. TSH 8 allows the fitting of up to eight Sender Cards of all popular types, with on board power.

TSH 4

A single rack unit mounting solution for up to four Sender Cards, TSH 4 is a compact solution and has a built-in power supply and cables ready to connect.

DV 8

DV8 is a unique solution for managing large LED installations with on board DVI distribution dramatically reducing complexity and cable intensity. Four DVI inputs are available, each split to two DVI outputs for linking side-by-side Sender Cards easily. Up to eight standard Sender Cards (or 4 dual height Sender Cards) can be fitted.

DV 4

With on board DVI Distribution for use with multiple Sender Cards has, LED display control has never been more straight forward. Fit up to four Sender Cards, and loop DVI cables from the DVI distribution for compact, reliable and professional installation.

LED Sender Solutions

G3 Sender I

Available for Linsn and ColorLight LED control systems, use G3 Sender I connected between the video source and the LED display. Built for performance and reliably, G3 Sender I features DVI and HDMI input connectors – the HDMI acting as insert, negating the need to disconnect the DVI input. This reduces turns on the DVI preventing damage and improving life span.

EtherCon connectors are fitted to the outputs for secure and reliable connect to LED displays.

Configuration of an LED display system can be made directly on the G3 Sender I without the need for a PC. Configure from the front panel and LCD display the Sender Card resolution, LED screen size, LED connection (wiring) system, and much more.

G3 Sender II

G3 Sender II includes two of either Linsn and ColorLight Sender Cards. Built for performance and reliably with the RGBlink deep understanding of the needs of LED display systems.

DVI and HDMI input connectors are included for each of the two in built Sender Cards– the HDMI acting as insert/takeover, negating the need to disconnect the DVI input. This allows primary system to remain intact, while enabling, for example, testing via HDMI. Four EtherCon connectors are fitted to the outputs for secure and reliable connect to LED displays.

G3 Sender II is ideal for redundant backup applications.

Configuration of an LED display system can be made directly on the G3 Sender II without the need for a PC. Configure from the front panel and LCD display the Sender Card resolution, LED screen size, as well as gamma and brightness amongst other settings.

Specifications

Reference

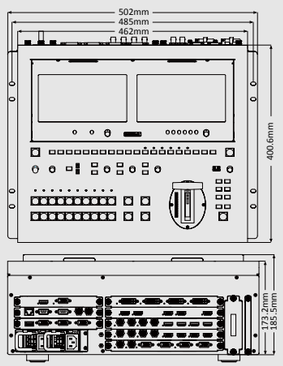
Feature Comparison – Scalers | Routers | Mixers

	X7	X3 Live	X3 Touch X3 Express	X2	X1pro	X1	VSP628pro	VSP5360	VSP9516	VSP5162pro	VSP3550	CP3072	CP3072S
Inputs	32	12	16	16	4+	4+	7	12	9	11+	9	16	16
DVI	Fully modular selection of input signal available□ Refer individual product specifications				1+	1+	1L+	2	1	3+	2		
HDMI					2+	1+	1L+			+	1	4	
VGA					1+	1+	1+	2	1	2+	2	4	4
DisplayPort					1+		1	2	1	2			
SDI					+		2L+	1	1	1+	1		4
CVBS					+	1+	+	3	3	3+	2	4	4
YPbPr									1				
S-Video									1				
USB					+	+	+	+		+		4	4
Option Slots	8	3	4	16	3	3	1	1		1			
4K	Yes	Yes	Yes	Yes	Yes		Yes	Yes					
Outputs	32	4	8	16	1+	1	2	4	2		4	3	
DVI	Fully modular selection of input signal available□ Refer individual product specifications				2+	2	1	2	2	2	4		
HDMI							1					3	3
VGA						1	1	2		1		2	2
DisplayPort					1+								
SDI							+						
CVBS							+					1	1
YPbPr													
Option Slots	8	1	2	16	1		1						
4K	Yes	Yes	Yes	Yes	Yes								
Layers													
Routing	128		16	16	1+		2	4					
Continuous	128		10	12+1	1+	1	2				2		
Presentation	40	4+1	5+1	6+1	1+	1	2	4	2	2	2	2	
Genlock	Yes	Yes	Yes	Yes			Yes						
Digital Ref Port			Yes	Yes						Yes	Yes		
Preview Out		Yes		Yes								Yes	Yes
LEDSender Slot					2	2	1	2	Built-in				
Audio					+	+		Yes	Yes			Yes	Yes
Transitions FX		Yes							Yes			Yes	Yes
PIP/PBP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DSK/Chroma	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes	Yes
OSD/Text	Yes	Yes	Yes	Yes							Yes	Yes	Yes
EDID	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Dimensions													
Rac□ Units	5		3	2	1	1	1	2	2	2	2		
Length □mm□	482	502	484	484	480	480	480	485	480	480	480	363	363
□idth □mm□	385	430	385	413	303	303	403	450	331	375	331	276	276
Height □mm□	311	186	135	91	45	45	45	89	89	45	89	127	127
□eight □□g□	18	16	12□3	12	2□7	2□7	3□7	8□1	5□2	3□8	4□6	7□1	7□1

+ options are available in addition to standard

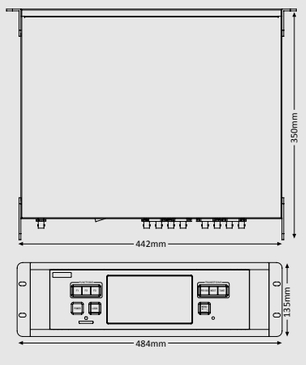
Dimensions

X3 LIVE



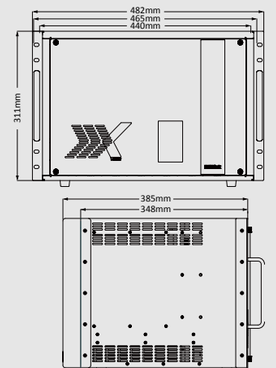
16kg

X3 Touch | X3 Express



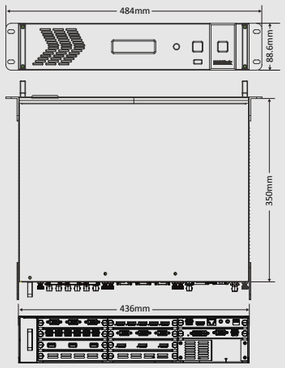
12.3kg

X7



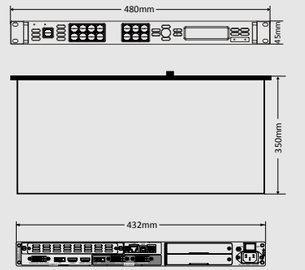
18kg

X2



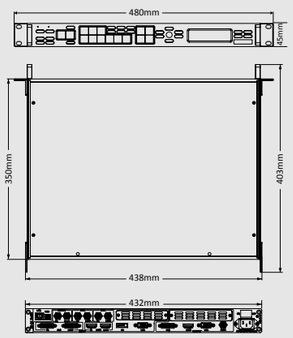
12kg

X1pro | X1



2.7kg

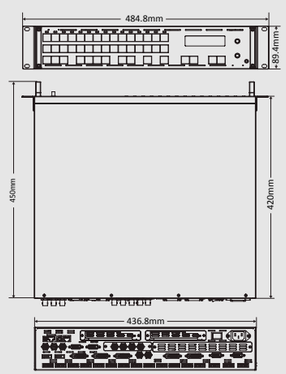
VSP 628pro



3.7kg

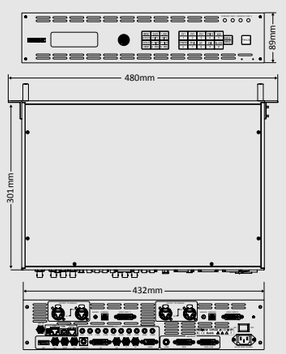
Dimensions

VSP 5360



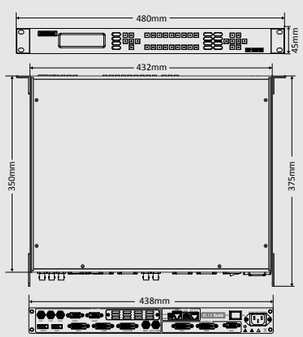
8.1kg

VSP 9516



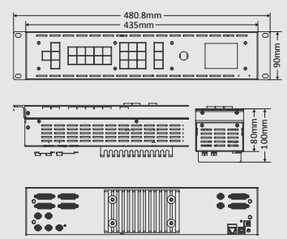
8.6kg

VSP 5162pro



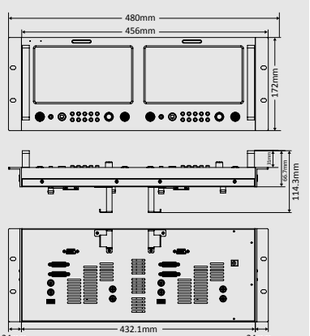
5.2kg

MVP 8043



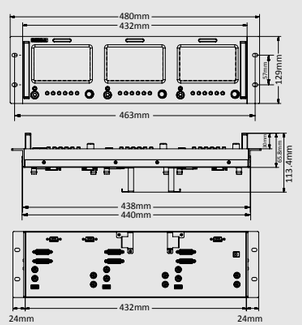
2.9kg

RMS 8424 | RMS 8424S



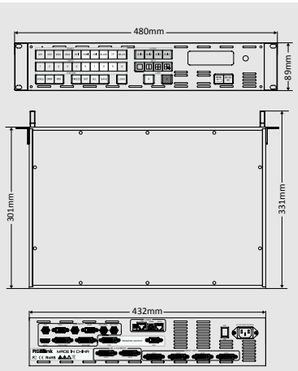
3.4kg

RMS 5353 | RMS 5353S



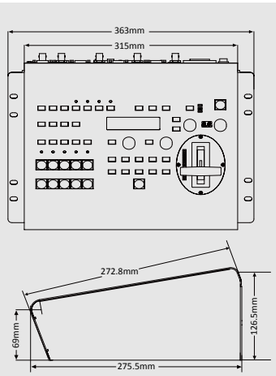
2.8kg

VSP 3550



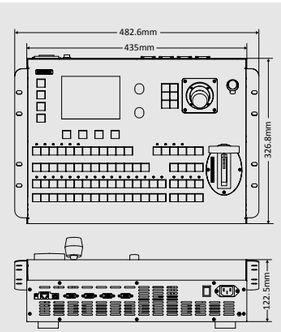
4.6kg

CP 3072 | CP 3072S



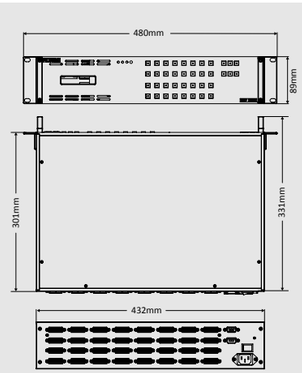
7.1kg

CP 2048



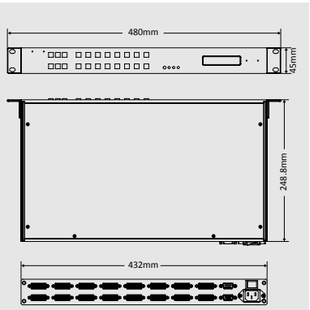
8.5kg

DXP D1616



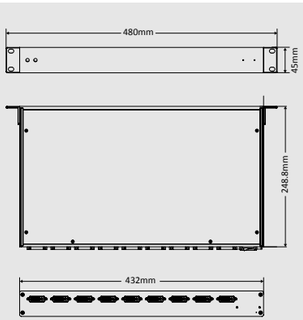
4.8kg

DXP D0808 | DXP D0404



2.6kg

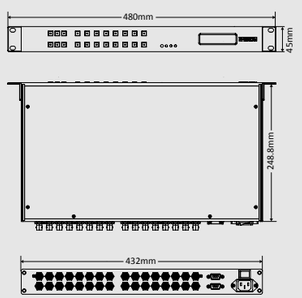
DXP D0108



2.1kg

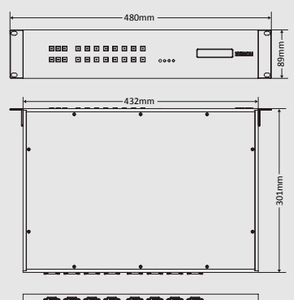
Dimensions

DXP A1616 | DXP A0808



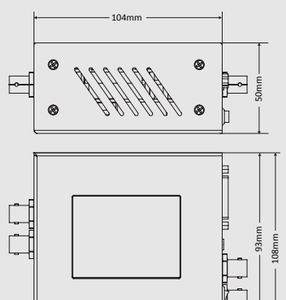
2.8kg

DXP V1616 | DXP V0808



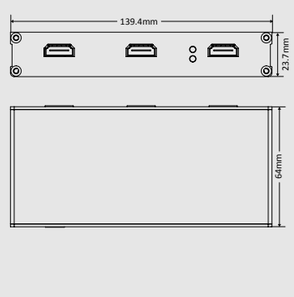
3.8kg

MSP 200



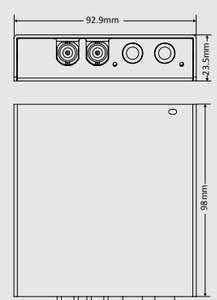
0.8kg

MSP 216



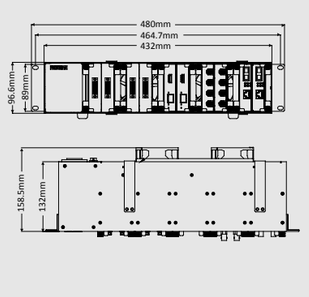
0.16kg

MSP 219



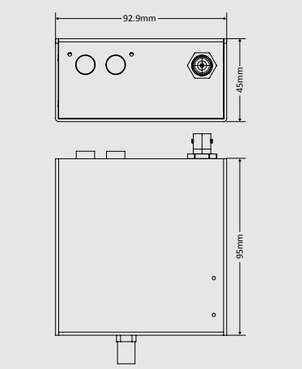
0.22kg

MSP Garage



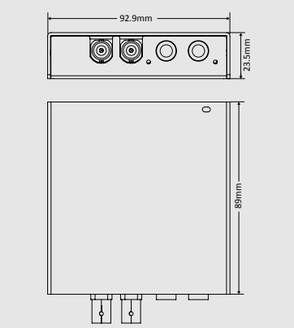
3.5kg

MSP 210



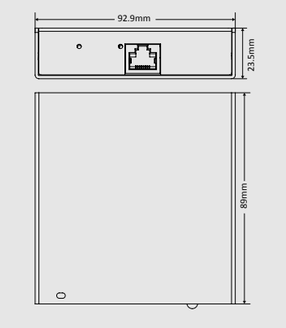
0.31kg

MSP 203 | MSP 204



0.18kg

MSP 224 | MSP 217

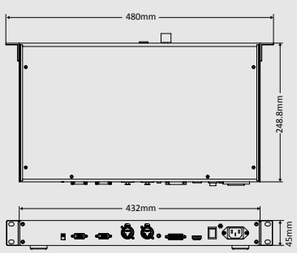


0.18kg

MSP 221 | MSP 225 | MSP 226

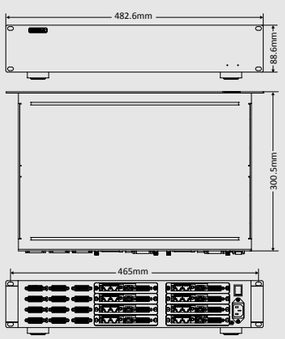
MSP 215 | MSP 214

G3 Sender



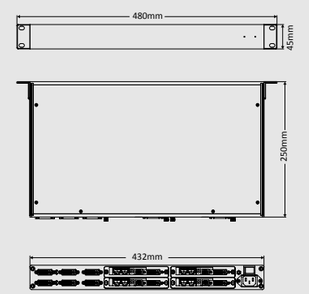
2.3kg

TSH8 | DV8



3.1kg

TSH4 | DV4



2kg

Common Terminology

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 A/V 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.

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 optimal video format for the display based on 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.

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 Expect 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 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-With-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.

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 image 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.

Order Codes

X Series

Product Code	Item	Description
310-0003-30-0	X3 live	Presentation Processor and Vision Mixer
310-0003-01-0	X3 touch	3U Presentation Processor w/ touch screen
310-0003-21-0	X3 express DVI	3U Presentation Processor w/DVI outputs
310-0003-22-0	X3 express SDI	3U Presentation Processor w/SDI outputs
310-0007-00-0	X7	7U 32x32 Universal Routing and Scaling Processor
310-0002-01-0	X2	2U 16x16 Universal Routing and Scaling Processor
110-0001-10-0	X1pro	1U 4K Scaler & Switcher
110-0001-01-2	X1	1U Scaler & Switcher

Scalers & Seamless Switchers

Product Code	Item	Description
100-0628-03-0	VSP628PRO	1U Switcher & Scaler with 2 SDI In, 2 Channel Output
100-0628-04-0	VSP628PRO-WEB	1U Switcher & Scaler with 2 SDI In, 2 Channel Output, w/ Web
100-5360-01-0	VSP5360	2U Switcher & Scaler 14 inputs, Preview & Program Outputs
100-9516-01-0	VSP9516	2U Switcher and Scaler with 2x Linsn TS802 Sender Cards built in
100-9516-02-0	VSP9516	2U Switcher and Scaler with 2x ColorLight iT7e Sender Cards built in
100-5162-02-0	VSP5162PRO	1U Switcher & Scaler with SDI In, Preview & Program Outputs
100-3550-01-0	VSP3550	2U Sync Mapping Switcher and Scaler

Vision Mixers & Control Consoles

Product Code	Item	Description
200-3072-01-0	CP3072	All in One Video Mixer & Scaler/Switcher with Case
200-3072-02-0	CP3072S	All in One Video Mixer & Scaler/Switcher SDI with Case
200-2048-01-0	CP2048	Remote Console/Mixer for VSP5360 & X3

Multi-Viewers

Product Code	Item	Description
300-0739-01-0	VSP739	1U 5 Layer Multi-Viewer
300-8043-01-0	MVP8043	2U Multi-Viewer/Switcher

Monitoring Solutions

Product Code	Item	Description
400-8424-01-0	RMS8424	4U Dual LCD Monitors (CVBS/DVI/VGA/HDMI)
400-8424-01-0	RMS8424S	4U Dual LCD Monitors (CVBS/DVI/VGA/HDMI/SDI)
400-5533-01-0	RMS5533	3U Triple LCD Monitors (CVBS/DVI/VGA/HDMI)
400-5533-02-0	RMS5533S	3U Triple LCD Monitors (CVBS/DVI/VGA/HDMI/SDI)

VSP Options

Product Code	Item	VSP628pro	VSP5360	VSP5162pro
190-0628-01-0	Dual CVBS Input Module	•	•	•
190-0628-02-0	Dual USB Input Module	•	•	•
190-0628-03-0	Dual VGA Input Module	•	•	•
190-0628-04-0	Dual HDMI Input Module	•	•	•
190-0628-05-0	Dual DVI Input Module	•	•	•
190-0628-06-0	Dual SDI Input Module	•	•	•
190-0628-07-0	4K Display Port & HDMI Input Module	•	•	
190-0628-21-0	SDI / Fiber / HDBaseT Output Module	•		
190-0628-23-0	SDI Dual Output Module	•		
190-0628-22-0	CVBS Output Module	•		

X Series Options

Product Code	Item	X1	X1pro	X2	X3	X3 Live	X7
190-0003-01-0	Quad DVI Input Module				•	•	•
190-0003-02-1	Quad HDMI Input Module				•	•	•
190-0003-03-0	Quad VGA Input Module				•	•	•
190-0003-04-0	Quad SDI Input Module				•	•	•
190-0003-05-0	Quad S-HDMI Input Module				•		
190-0003-06-0	8Way CVBS Input Module				•	•	•
190-0003-07-0	Quad USB Input Module				•	•	•
190-0003-08-0	Dual HDMI & SDI Input Module					•	•
190-0003-09-0	Dual VGA & CVBS Input Module					•	•
190-0003-11-0	4K Input Module (HDMI/DisplayPort)				•	•	•
190-0003-12-0	4K Input Module (12G-SDI)				•	•	•
190-0003-13-0	H.264 Streaming Input Module				•		
190-0003-21-0	Quad DVI Output Module				•	•	•
190-0003-22-0	Quad HDMI Output Module				•	•	•
190-0003-23-0	Quad VGA Output Module				•	•	•
190-0003-24-0	Quad SDI Output Module				•	•	•
190-0003-25-0	4K Output Module (HDMI)					•	•
190-0003-26-0	4K Output Module (12G-SDI)						•
190-0003-27-0	H.264 Streaming Output Module						•
190-0003-28-0	Preview Module (HDMI/VGA)					•	
190-0003-29-0	Preview/Monitor Module					•	
190-0003-30-0	Tally Module					•	
190-0003-31-0	Comm./GenLock Module					•	
190-0003-32-0	Comm./Genlock Module				•		
190-0003-33-0	Comm./Genlock Module						•
190-0001-02-1	VGA Input	•	•				
190-0001-03-1	DisplayPort Input (2K)	•	•				
190-0001-04-1	DVI Input	•	•				
190-0001-05-1	DVI Input/Loop Out	•	•				
190-0001-06-1	HDMI Input/Loop Out	•	•				
190-0001-07-1	3G-SDI In/Loop Out	•	•				
190-0001-09-1	CVBS In/Backup	•	•				
190-0001-10-1	USB In/Backup	•	•				
190-0001-11-1	Audio Management	•	•				
190-0001-12-0	Wi-Fi Module	•	•	•			
190-0001-21-0	Output Expansion Module		•				
980-0001-01-1	EXT (Extension) Module	•	•				
190-0002-01-1	DualLink DVI Input Module*			•			
190-0002-02-1	Quad HDMI Input Module			•			
190-0002-03-0	Triple VGA Input Module			•			
190-0002-04-1	Quad SDI Input Module			•			
190-0002-05-1	4 way CVBS Input Module			•			
190-0002-06-1	Quad HDBaseT Input Module*			•			
190-0002-07-1	Quad FiberPort Input Module*			•			
190-0002-09-1	Quad H.264 IP Streaming Input Module			•			
190-0002-10-1	Quad USB Input Module			•			
190-0002-11-0	4K Input Module (DP/HDMI)			•			
190-0002-22-1	HDMI Output Module			•			
190-0002-24-0	3G-SDI Output Module			•			
190-0002-25-0	HDBaseT Output Module*			•			
190-0002-26-0	FiberPort Output Module*			•			
190-0002-27-0	DisplayPort Output Module*			•			
190-0002-28-0	Quad H.264 Output Module*			•			
190-0002-50-1	2x H.264 & 1xHDMI Streaming Output Module			•			
190-0002-51-1	Comm. Module(X2)			•			
950-0001-00-0	Hot Swap PSU 200W			•	•	•	
950-0005-00-0	Hot Swap PSU 400W						•

Order Codes

Signal Routing & Distribution

Product Code	Item	Description
500-1616-01-0	DXPD1616	2U 16 DVI In/Out Router/Matrix
500-0808-01-0	DXPD0808	1U 8 DVI In/Out Router/Matrix
500-0404-01-0	DXPD0404	1U 4 DVI In/Out Router/Matrix
500-0108-01-0	DXPD0108	1U 1 DVI In/8 Out Distributor
510-1616-01-0	DXPA1616	1U 16 Composite In/Out Router/Matrix
510-0808-01-0	DXPA0808	1U 8 Composite In/Out Router/Matrix
520-1616-01-0	DXPV1616	2U 16 VGA In/Out Router/Matrix
520-0808-01-0	DXPV0808	2U 8 VGA In/Out Router/Matrix

MSP Tools

Product Code	Item	Description
650-0200-01-1	MSP200	Test Pattern Generator (battery pack sold separately)
650-0221-01-0	MSP221	EDID Manager & HDCP Toolbox

MSP Signal Convertors

Product Code	Item	Description
600-0210-02-0	MSP210C	Composite to SDI Convertor with Scan Convertor & Scaler
600-0210-03-0	MSP210D	Display Port to SDI Convertor with Scan Convertor & Scaler
600-0210-04-0	MSP210H	HDMI to SDI Convertor with Scan Convertor & Scaler
600-0210-05-0	MSP210V	VGA to SDI Convertor
600-0204-01-0	MSP204	HDMI to SDI Convertor
600-0203-01-0	MSP203	SDI to HDMI Convertor
600-0211-01-0	MSP211	HDMI to DVI Convertor
600-0225-01-0	MSP225	HDMI to H.264 Convertor
600-0226-01-0	MSP226	H.264 to HDMI Convertor

MSP Extenders

Product Code	Item	Description
610-0215-01-1	MSP215	HDBaseT HDMI to Cat5e/6 Extender Set (max 100m)
610-0224-01-0	MSP224	DisplayPort 4K to Fiber Extender Set [without SFP Module]
610-0217-01-0	MSP217	SDI to Fiber Extender Set [without SFP Module]
610-0214-01-1	MSP214	HDMI/DVI to Fiber Extender Set [without SFP Module]
610-0209-01-0	MSP209S	Ethernet to Single Mode Fiber Extender Set
610-0209-02-0	MSP209M	Ethernet to Multi Mode Fiber Extender Set

MSP Distributors

Product Code	Item	Description
620-0216-01-0	MSP216	1 DVI In/2 DVI Out Distributor
620-0216-02-0	MSP216H	1 HDMI In/2 HDMI Out Distributor
620-0219-02-0	MSP219-2	1 SDI In/2 SDI Out Distributor
620-0219-04-0	MSP219-4	1 SDI In/4 SDI Out Distributor
920-0005-01-0	MSP Garage	MSP Garage with PSU

MSP Encoders

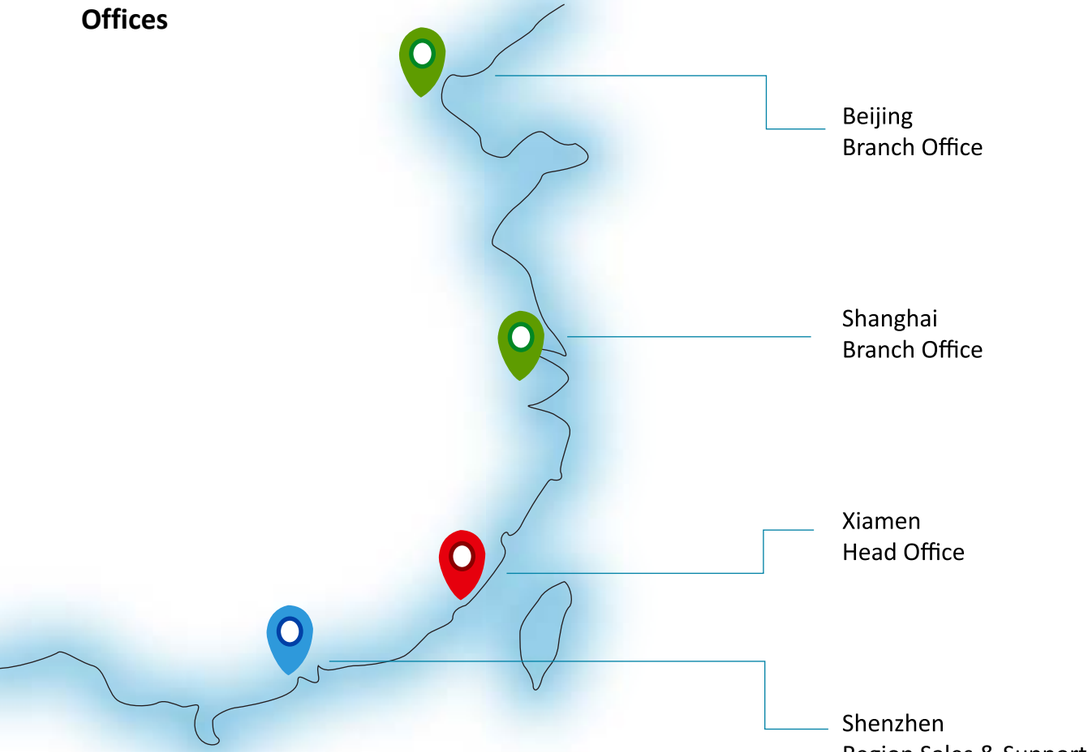
Product Code	Item	Description
630-0225-01-0	MSP225	HDMI to H.264 Encoder
630-0226-01-0	MSP226	H.264 to HDMI Decoder

LED Display Control

Product Code	Item	Description
800-1008-01-0	TSH8	2U Housing for 8 Sender Cards
800-1004-01-0	TSH4	1U Housing for 4 Sender Cards
800-0008-01-0	DV8	2U DVI Distributor for 8 Sender Cards
800-0004-01-0	DV4	1U DVI Distributor for 4 Sender Cards
810-0012-01-0	G3 Sender I	1U with one 2port ColorLight Sender Card [DRIVERNEW]
810-0012-02-0	G3 Sender I	1U with one 2port Linsn Sender Card [DRIVERNEW]
810-0022-01-0	G3 Sender II	2U with two 2port ColorLight Sender Card [DRIVERNEW2]
810-0022-01-0	G3 Sender II	2U with two 2port Linsn Sender Card [DRIVERNEW2]

Contact Us

Offices



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