

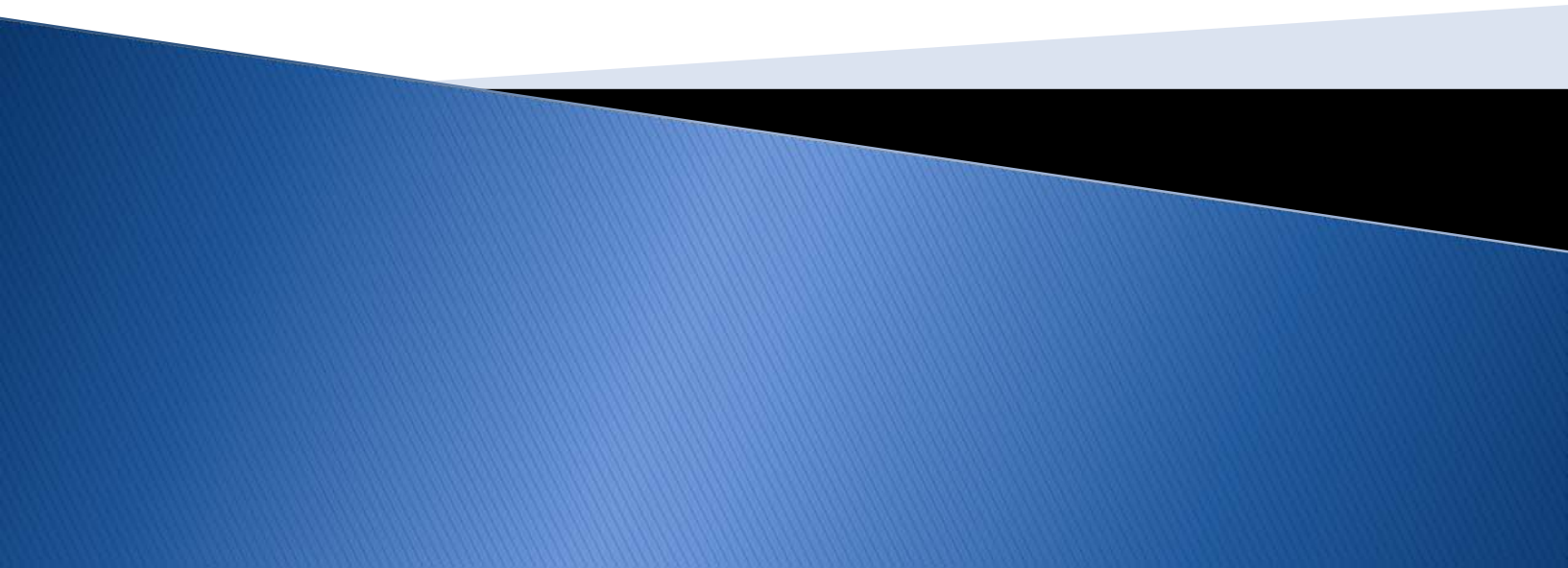


VISTA PRODUCTS

CATALOGUE 2010

powered by

CHRISTIE®



Vista Spyder

Broadcast
Command and control
Corporate
Entertainment
Houses of worship
Rental and staging



Choice. Control. Flexibility. Just what every integrator wants.

Want the same impressive video processing capabilities of major show productions without the expense? Get the Vista Spyder video processor from Christie. Then get creative. Spyder's compact modular design gives you the options, versatility and power to make it easy. Manipulate a virtually limitless variety of inputs through a single output. Stretch a single 1080i input across three or more projectors for a seamless widescreen display, or do almost anything in-between, and that's just for starters.

The Spyder gives you total control and flexibility, so you can mix an incredible number of sources in multiple windows, create all kinds of Picture-in-Pictures (PIPs), define, shape and blend borders with remarkable ease, and do it all without a hitch, every single time. What kind of input do you have? HD, DVI, Analog RGB, SDI, HD-SDI, Analog Beta Cam – Spyder has not met a source it does not like. Name it and you're mixing, animating, manipulating and projecting it.

CHRISTIE®



The power and flexibility of Vista Systems' video switchers and real-time windowing and composition products combined with the power, performance and reliability of award-winning Christie projection systems ensures that whatever you visualize, your Christie solution can display it. Vista's switchers have become the industry standard for live multiple-destination video and data mixed signal switching.

Modularity allows you to mix and match

Perhaps the best thing about the Spyder system is its incredible versatility. Between the 200 and 300 Series, there are 23 different models to choose from, all of which are compatible and configurable with each other. You can create almost any size system you need, depending on your budget, and the demands of your application. Choice is the operative word—made possible through the modular design that allows you to link together the optimum number of inputs, outputs and processors.

With processing this easy, everyone will be doing it

Spyder's intuitive user interface allows you to perform even the most complex tasks with simplicity and ease. Start by building virtual pixel spaces that represent a display or multiple displays.

Mix any input anywhere on any display and create a variety of motion effects and controls using simple keyframes to plot the movement. While you're at it, create any kind of window border or drop shadow with adjustable color, width, softness, shadow offset and transparency. It is easy!

And, we haven't even mentioned Spyder's wide-screen capabilities. Outputs – which can be projectors, LED walls, video walls, recording devices, operator monitors, and the like – can overlap horizontally or vertically with 10-bit edge blending and user-definable blend regions that define the words "seamless" and "awesome."

Choose your Spyder

Whether you are a novice or a seasoned pro, there is a Spyder made just for you. Choose your market – broadcast, command and control, corporate, entertainment, house of worship or rental and staging. Check out all the models, configurations and features available.

Every Spyder frame model has a simple code to identify its capability.

The first number defines series, 200 or 300, the second number is the number of universal inputs and the third number is the number of outputs.

- ▼ Christie projectors and Vista Spyder in perfect blend for BBC Sport's new Walk-in World Programmes such as Match of the Day, Match of the Day 2, Football Focus, Score, Inside Sport and the World Athletic Championships in Osaka are produced from this studio.

The centerpiece of the new environment is a giant, 22-meter-long curved projection screen where, the continuous image is created by a seven-projector blend. The seven networked Christie DS+8K projectors, each fitted with a 0.67:1 HD fixed lens and a Christie Twist™ module, were selected to create the perfect projection backdrop.

The background composition is provided by a three-output HD-SDI feed from the 1080i client media servers. These are controlled by a Spyder using the Vista Sourcemaster control unit. The signals are then sent from the Spyder to the projectors via a 50-meter DVI-D fiber source feed from a 10 in/10 out Spyder system in the first floor control room.



Spyder 200 series models

Model 207	inputs	7
Model 213	inputs	1
	outputs	3
Model 222	inputs	2
	outputs	2
Model 225	inputs	2
	outputs	5
Model 231	inputs	3
	outputs	1
Model 234	inputs	3
	outputs	4
Model 240	inputs	4 expansion processor
Model 204	outputs	4 expansion processor

Spyder 300 series models

Model 317	inputs	1
	outputs	7
Model 326	inputs	2
	outputs	6
Model 335	inputs	3
	outputs	5
Model 344	inputs	4
	outputs	4
Model 3410	inputs	4
	outputs	10
Model 3413	inputs	4
	outputs	1 universal
	DX4 card	3
Model 353	inputs	5
	outputs	3
Model 359	inputs	5
	outputs	9
Model 362	inputs	6
	outputs	2
Model 365	inputs	6
	outputs	5
Model 368	inputs	6
	outputs	8
Model 371	inputs	7
	outputs	1
Model 374	inputs	7
	outputs	4
Model 308	outputs	8 expansion processor
Model 380	inputs	8 expansion processor

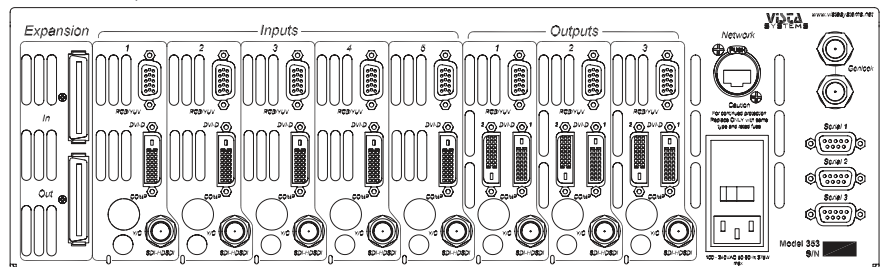
Expansion and Composite/S-video available on all models.

		Spyder 200 Series	Spyder 300 Series
Input	standard	- Universal input, HD15, Dual-link DVI-D, HDS/SDI - Analog Composite BNC, S-video	
	optional		
	signals	- Analog RGB, RGBS, RGsB, YUV, composite, component - DVI, single-link and dual-link - SDI, HD-SDI	
	pixel clock	Analog up to 165MHz • DVI up to 210MHz	
	resolutions	Up to 2048 x 1200 on analog and 2048 x 1536 on DVI-D	
	scan rates	Up to 120Hz dependant on pixel clock rate maximum	
Output*	standard	- Universal output, HD15, Dual-link DVI-D (X2), HDS/SDI - Analog Composite BNC, S-video	
	optional		
	signals	- Analog RGB, RGBS, RGsB, YUV, composite, component - DVI, single-link and dual-link - SDI, HD-SDI	
	pixel clock	Analog up to 165MHz • DVI up to 210MHz	
	resolutions	Up to 2048 x 1200 on analog and 2048 x 1536 on DVI-D	
	scan rates	Up to 120 Hz dependant on pixel clock rate maximum	
Control and networking		RS-232 in/out • Ethernet (10/100)	
Enhanced feature sets		- Output rotation feature on DX4 output cards only 2 out of 4 outputs available only with rotation	
Accessories	standard	- User manual (CD-ROM and quick manual) • AC power cord • control software - rack hardware	
	optional	Remote CPU for secure environments	
Power requirements	operating voltage	100 - 240 VAC @ 50/60Hz	
	max current	3.0A @ 100 VAC	5.0A @ 100 VAC
	max power	225W	375W
	dissipation	<500 BTU/hr	
Dimensions	size	2RU	3RU
	dimensions	(LxWxH) 22.1 x 17.3 x 3.5" (561 x 439 x 89mm)	(LxWxH) 22.1 x 17.3 x 5.3" (561 x 439 x 134mm)
	shipping dimensions	(LxWxH) 26.8 x 22 x 10.3" (681 x 559 x 262mm)	(LxWxH) 26.8 x 22 x 10.3" (681 x 559 x 262mm)
	volume	1338 cubic in	2026 cubic in
	weight	25lb (11kg)	33lb (15kg)
	shipping weight	38lb (17kg)	45lb (20kg)
Operating environment		Temperature: 5-35° C (40-95° F) • Humidity: 20-80% non-condensing	
Regulatory		- This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): - UL/CSA/IEC 60950 (3rd Edition) • FCC Class A, CE, CCC • RoHS, WEEE	
Limited warranty		1 year parts and labor - Contact an authorized Christie representative for full details of our limited warranty	

* 24p, NTSC, PAL, and SECAM frame rates supported

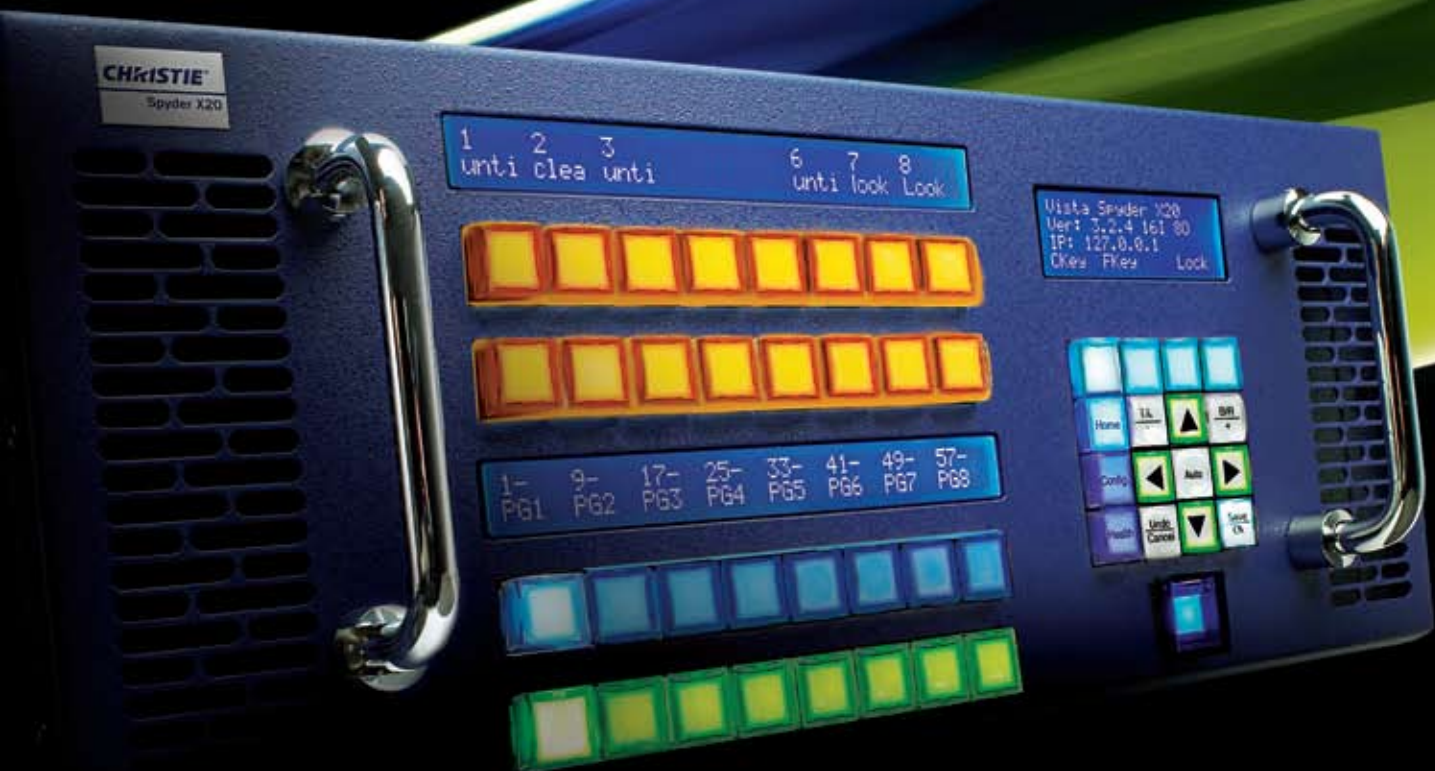
Using a Spyder 353 as an example:

Using a Spyder 353 as an example: 3 – 300 series, 5 – five universal inputs, 3 – three universal outputs



Christie Spyder X20

Auditoriums	Houses of worship
Boardrooms	Media centers
Broadcast studios	Post-production
Conference rooms	Rental and staging
Control rooms	Training rooms



The Next Generation

The Christie Spyder X20 is a versatile hardware-based video processor combined with the flexibility of a universal routing switcher. Its integrated source monitoring enables simultaneous, real-time, full frame rate monitoring of all inputs.

The Spyder X20 provides users with a 20 megapixel bandwidth to blend, window, mix and scale any source format and then routes the signal to any destination device or combination of display devices – quickly and easily. It is easy to deploy and install because of its advanced architecture and reduces the amount of wires, boxes and rack space traditionally required because everything is all in one unit.

CHRISTIE®

Christie Spyder X20

The next generation of video processing and matrix switching

The Spyder X20 offers a unique architecture that allows for a resolution and video format-independent environment. Users are no longer restricted to the resolution of a single computer or video source, or a single display destination. Multiple displays can be combined to generate an enhanced resolution to exceed what any single display can support.

Ideal for live event and broadcast environments, its 20 megapixel bandwidth enables the Spyder X20 to drive multiple displays to achieve greater brightness, image quality and resolution than has been historically possible. The Spyder X20 can be used in many different environments with any display device (projectors, plasma screens, LED walls, rear projection cubes, etc.) or any combination of display devices. The Spyder X20 provides unsurpassed power and functionality in only 4 rack units (4RU).

The next generation of Spyder

This newest version of the Spyder is designed for users in any environment to take images from unique sources, use a variety of display systems and present the images as intended. It is ideal for applications such as live events, broadcast, high-end boardrooms, command and control, houses of worship and education – any installation that has multi-windowing, multiple displays and processing requirements.

Software interface

The Microsoft® Windows based control software provides full set-up, configuration, and real-time control with an easy-to-use interface.



▲ Vista Advanced is a Windows-based software interface that makes it easy to configure and control the Spyder X20.

Key features
20 megapixel bandwidth
Internal matrix switching
Universal input/output capabilities – mix and match multiple formats with one piece of equipment
Input capability – either 8 or 16 inputs (depending on model) that can be a mix of analog BNC and DVI signals
Output capability – 8 outputs that natively support any display from component analog 480i to digital 4K
Built-in conversion for analog/digital, interlaced/progressive, resolution, aspect ratio and refresh rate
Define properties for each output independent of each signal
Integrated source monitoring – real-time and full frame rate view of all sources connected to the Spyder X20 (either 16 or 8 inputs) on a single output, tiled into either a 4 x 4 array (X20-1608) or a 4 x 2 array (X20-0808)
Single point of control for all processing and signal distribution functions from front panel, PC via Ethernet, or external control system
10-bit processing



▲ Bitmap borders

Small form factor – (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm). Additionally, only one piece of equipment is required so the overall space used in a rack is reduced
Each output individually supports rotation; enabling the creation of vertically-oriented displays
User-definable edge blending and tiling
Create any kind of window border or drop shadow with adjustable color, width, softness, shadow offset and transparency
Online editing mode allows for preset displays to be built and edited in preview mode without affecting what the audience is seeing
Additional features
Built-in image Still Store functionality
Built in VESA calculator for custom resolution outputs
Intuitive graphical user interface (GUI)
Simple cohesive control of all functions
Redundant hot swappable power supplies
Optional stereoscopic support
Advanced auto-sync functionality
Bitmap borders
Window titling



▲ Window titling



▲ Front panel

With the Spyder X20, layers can be in 'program' and in 'preview' mode. You can build preset displays in preview mode using live layers without affecting the display being viewed by the audience.



▲ Spyder X20-1608 rear panel

The Spyder X20-1608 has 16 inputs and 8 outputs, that can be a mix of analog BNC and DVI signals.



▲ Spyder X20-0808 rear panel

The Spyder X20-0808 has 8 inputs and 8 outputs, and is easy to use and configure.

		Spyder X20-0808	Spyder X20-1608
Input	number	• 8 inputs • 4 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 4 supporting progressive DVI and progressive RGBHV	• 16 inputs • 8 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 8 supporting progressive DVI and progressive RGBHV
	signals	• Analog RGB composite, component • DVI, single-link and dual-link (8 inputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165MHz • DVI up to 265MHz	
	resolutions	• Up to 2560 x 1600 (any resolution greater than 2048 x 1200 uses 2 input channels)	
	scan rates	• Up to 120 Hz dependant on pixel clock rate maximum	
Output	number	• 8 @ (< 2048 x 1200) or 4 @ (2560 x 1600) or combination	
	signals	• Analog RGB, component • DVI, single-link and dual-link (4 outputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165MHz • DVI up to 265MHz	
	resolutions	• Up to 2560 x 1600	
	scan rates	• Up to 120Hz dependant on pixel clock rate maximum	
Control and networking		• RS-232 in/out • Ethernet (10/100/1000)	
Enhanced feature sets		• Independent aspect ratio and frame rate set-up • Overlays • Transitions • Aspect ratio conversions • Integrated source monitoring • Output rotation (portrait) • Optional stereoscopic support	
Accessories	standard	• User manual (CD-ROM) • 2 AC power cords • Vista Advanced 2009 software • Rack hardware	
Power requirements	operating voltage	• 100 VAC to 240 VAC @ 50/60Hz	
	operating current	• 9.0A @ 100 VAC	
	power	• 900W	
	dissipation	• <750 BTU/hr	
Dimensions	size	• 4RU	
	dimensions	• (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm)	
	shipping dimensions	• (LxWxH): 32.3 x 25.5 x 15.0" (820 x 648 x 381mm)	
	volume	• 2652in³	
	weight	• 59lb (27kg)	
	shipping weight	• 70.5lb (32kg)	
Operating environment		• Temperature: 40-95°F (5-35°C) • Humidity: 20-80% non-condensing	
Regulatory approvals		• This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • UL/CSA/IEC 60950 (3rd Edition) • FCC Class A, CE, CCC • RoHS, WEEE	
Limited warranty		• 1 year parts and labor • Contact an authorized Christie representative for full details of our limited warranty	

Minimum PC requirements

Microsoft Windows® 7 Based Computers

Microsoft's Windows® 7 platform provides a rating called the 'Windows Experience Index', which measures the capability of your computer's hardware and software configuration and expresses this measurement as a number called a base score. A higher base score generally means that your computer will perform better and faster than a computer with a lower base score, and makes it simple to purchase a PC with confidence that it will work properly with the Vista Advanced software interface.

Requirements

'Windows Experience Index' of 4.0 or greater

Microsoft Windows XP Based Computers

Computers running the Windows XP user interface do not support the 'Windows Experience Index' provided in Windows Vista and Windows® 7, and therefore the hardware profile listed below can be used as a base hardware configuration.

Requirements

Pentium 4, 2.5Ghz or equivalent

512MB of RAM

128MB, DirectX 9.0 compatible video card (Nvidia preferred)

Windows XP Professional, Service Pack 3

Microsoft .Net framework, Version 4.0

Microsoft DirectX 9.0c or later

Note: MAC or PC emulators such as VMWare and Microsoft Virtual PC should not be used to run Vista Advanced, and Vista cannot provide support for users using an emulator of any kind.

Christie Vista URS

Auditoriums	Houses of worship
Boardrooms	Media centers
Broadcast studios	Post-production
Conference rooms	Rental and staging
Control rooms	Training rooms



Format-independent routing switcher for a multi-format world

Most routing switchers require all sources and destinations to be the same format. If the input source doesn't match the output display, peripheral hardware is required to process and convert it before the router can do its job.

But, not with the Christie Vista URS – all the processing is in the switcher which then routes the signal to any destination – quickly and easily. The URS has an amazing amount of power in a very small package, so you need fewer wires, boxes and rack space.

The URS handles any input-output combination of computer and video formats with ease, including analog/digital, interlaced/progressive, and high/low resolution. With built-in integrated source monitoring

and sophisticated keying, the URS accepts sources from analog composite to digital 4K and seamlessly routes them to any destination display. You won't find any matrix switcher on the market today that can do what the URS does.

The URS performs all the processing to match the source to the output, including scaling, aspect ratio, color-space, and frame rate conversion. Normally, these functions require additional equipment and complex, restrictive control systems, however with the URS the entire process is simplified, saving you time, money and resources.

This system also includes built-in source monitoring, so you can simultaneously check all (real-time) inputs – quickly and easily.

CHRISTIE®

What is a Universal Routing Switcher (URS)?

Think of it as the anything-in, anything-out matrix switcher that processes as it routes. A Universal Routing Switcher (URS) accepts any source format, converts it, and sends it to any output display. It eliminates most or all of your front- and back-end boxes, reducing your requirements to one piece of equipment and one point of control. There are two models in the URS series:

- Vista URS-0808 – 8 inputs, 8 outputs
- Vista URS-1608 – 16 inputs, 8 outputs

Key features

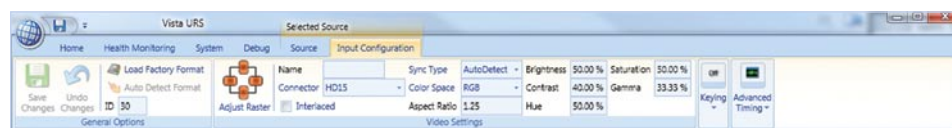
- Universal input/output capabilities – mix and match multiple formats with one piece of equipment
- Input capability – either 8 or 16 inputs (depending on model) that can be a mix of analog BNC and DVI signals
- Output capability – 8 outputs that natively support any display from component analog 480i to digital 4K
- Built-in conversion for analog/digital, interlaced/progressive, resolution, aspect ratio and frame rate – seamlessly route any source to any user-configurable output
- Define properties for each output independent of each signal
- Integrated source monitoring – real-time and full frame rate view of all sources connected to the URS (either 16 or 8 inputs) on a single output, tiled into either a 4x4 array (URS-1608) or a 4x2 array (URS-0808)
- Overlay (key) capability – up to four sources can be layered onto each output for a multitude of needs, including background/foreground transitions, PIP windows, bugs, lower-third titling, tickers, messaging, sign windows and more
- Single point of control for all processing and signal distribution functions from front panel, PC via Ethernet, or external control system
- Small form factor – (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm). Additionally, only one piece of equipment is required so the overall space used on a rack is reduced
- Each output individually supports rotation; enabling the creation of vertically-oriented displays

Additional features

- Easy-to-use web-based interface enables monitoring and control of the URS from any computer on the network
- Built-in image capture/Still Store functionality
- Auto set-up feature
- Intuitive graphical user interface (GUI)
- Simple cohesive control of all functions
- Redundant hot swappable power supplies
- Optional URS-IBSS High Speed Infiniband Still Store server
- Optional stereoscopic support
- The URS-0808 is expandable – can be modified to support 16 inputs

Software interface

The Microsoft® Windows XP/Vista based control software for the URS provides full setup, configuration, and real-time control of the routing switcher with an easy-to-use interface.



- ▲ The ribbon interface offers quick access to URS functionality, and contextual tabs show only relevant information based on current application selections.



- ▲ The software user interface allows quick access to configuration and control.



- ▲ Output builder allows manual positioning and sizing of inputs.



- ▲ URS front panel can be viewed and manipulated through the software interface.



- ▲ Output viewer shows real-time status of all outputs.

		Vista URS-0808	Vista URS-1608
Input	number	• 8 inputs • 4 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 4 supporting progressive DVI and progressive RGBHV	• 16 inputs • 8 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 8 supporting progressive DVI and progressive RGBHV
	signals	• Analog RGB composite, component • DVI, single-link and dual-link (8 inputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165MHz • DVI up to 265MHz	
	resolutions	• Up to 2560 x 1600 (any resolution greater than 2048 x 1200 uses 2 input channels)	
	scan rates	• Up to 120Hz dependant on pixel clock rate maximum	
Output	number	• 8 @ (< 2048 x 1200) or 4 @ (2560 x 1600) or combination	
	signals	• Analog RGB, component • DVI, single-link and dual-link (4 outputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165MHz • DVI up to 265MHz	
	resolutions	• Up to 2560 x 1600 (any resolution greater than 2048 x 1200 uses 2 output channels)	
	scan rates	• Up to 120Hz dependant on pixel clock rate maximum	
Control and networking		• RS-232 in/out • Ethernet (10/100)	
Enhanced feature sets		• Independent aspect ratio and frame rate set-up • Overlays • Transitions • Aspect ratio conversions • Integrated source monitoring • Built-in image capture • Output rotation (portrait) • Optional stereoscopic support	
Accessories	standard	• User manual (CD-ROM and quick manual) • 2 AC power cords • URS control software • Rack hardware	
Power requirements	operating voltage	• 100 VAC to 240 VAC @ 50/60Hz	
	operating current	• 9.0A @ 100 VAC	
	power	• 900W	
	dissipation	• <750 BTU/hr	
Dimensions	size	• 4RU	
	dimensions	• (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm)	
	shipping dimensions	• (LxWxH): 32.3 x 25.5 x 15" (820 x 648 x 381mm)	
	volume	• 2652in³	
	weight	• 59lb (27kg)	
	shipping weight	• 70.5lb (32kg)	
Operating environment		• Temperature: 5-35° C (40-95° F) • Humidity: 20-80% non-condensing	
Regulatory approvals		• This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • UL/CSA/IEC 60950 (3rd Edition) • FCC Class A, CE, CCC • RoHS, WEEE	
Limited warranty		• 1 year parts and labor • Contact an authorized Christie representative for full details of our limited warranty	

Minimum PC Requirements

Microsoft Windows Vista Based Computers

Microsoft's Windows Vista platform provides a rating called the 'Windows Experience Index', which measures the capability of your computer's hardware and software configuration and expresses this measurement as a number called a base score. A higher base score generally means that your computer will perform better and faster than a computer with a lower base score, and makes it simple to purchase a PC with confidence that it will work properly with the Vista Advanced software interface.

Requirements

- 'Windows Experience Index' of 4.0 or greater

Microsoft Windows XP Based Computers

Computers running the Windows XP user interface do not support the 'Windows Experience Index' provided in Windows Vista, and therefore the hardware profile listed below can be used as a base hardware configuration.

Requirements

- Pentium 4, 2.5Ghz or equivalent
- 512MB of RAM
- 128MB, DirectX 9.0 compatible video card (Nvidia preferred)
- Windows XP Professional, Service Pack 2 or later
- Microsoft .Net framework, Version 2.0 or later
- Microsoft DirectX 9.0c or later

Note: MAC or PC emulators such as VMWare and Microsoft Virtual PC should not be used to run Vista Advanced, and Vista cannot provide support for users using an emulator of any kind.

Front panel



- ▲ The URS front panel interface goes beyond the traditional cross point capabilities found on other routing switchers. The URS front panel enables users to quickly perform virtually any configuration or control task available on the routing switcher. LCD labeling and multi-color switches create an enhanced user experience that makes the front panel easy to use and easy to understand.

URS-1608 rear panel



- ▲ The URS-1608 has 16 inputs and 8 outputs, and redundant hot swappable power supplies.

URS-0808 rear panel



- ▲ The URS-0808 has 8 inputs and 8 outputs, and can be modified to support 16 inputs.

COMPANY PROFILE



Space Vision was founded in October 2002 by a team of engineers and businessmen with vast experience in the area of electronics and audiovisual systems. The main goal of the company's founders was the creation of a flexible and dynamic enterprise, which would bring a new era in the field of the audiovisual solutions in Greece.

Since its foundation, our company has established a high reputation over the years, by implementing medium and large-scale projects and has managed to hold one of the highest positions in the area of AudioVisual Integrators in the Greek Market.

The company's activities vary from the trade, installation and engineering of audiovisual systems to the implementation of turnkey projects.

Today, the name of Space Vision stands out in hundreds of high-tech installations in cinemas, studios, classrooms, meeting rooms, auditoriums, convention centers, theaters and museums across a broad spectrum of public and private organizations and agencies all over Greece.



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