

Vista URS

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|-------------------|--------------------|
| 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 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 (real-time) all inputs – quickly and easily.

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.



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



▲ Output builder allows manual positioning and sizing of inputs.



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

| | | Vista URS-0808 | Vista URS-1608 |
|------------------------|---------------------|--|---|
| Input | number | <ul style="list-style-type: none"> • 8 inputs • 4 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 4 supporting progressive DVI | <ul style="list-style-type: none"> • 16 inputs • 8 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 8 supporting progressive DVI |
| | signals | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Analog up to 165MHz • DVI up to 265MHz | |
| | resolutions | <ul style="list-style-type: none"> • Up to 2560 x 1600 (any resolution greater than 2048 x 1200 uses 2 input channels) | |
| | scan rates | <ul style="list-style-type: none"> • Up to 120Hz dependant on pixel clock rate maximum | |
| Output | number | <ul style="list-style-type: none"> • 8 @ (< 2048 x 1200) or 4 @ (2560 x 1600) or combination | |
| | signals | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Analog up to 165MHz • DVI up to 265MHz | |
| | resolutions | <ul style="list-style-type: none"> • Up to 2560 x 1600 (any resolution greater than 2048 x 1200 uses 2 output channels) | |
| | scan rates | <ul style="list-style-type: none"> • Up to 120Hz dependant on pixel clock rate maximum | |
| Control and networking | | <ul style="list-style-type: none"> • RS-232 in/out • Ethernet (10/100) | |
| Enhanced feature sets | | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • User manual (CD-ROM and quick manual) • 2 AC power cords • URS control software • Rack hardware | |
| Power requirements | operating voltage | <ul style="list-style-type: none"> • 100 VAC to 240 VAC @ 50/60Hz | |
| | operating current | <ul style="list-style-type: none"> • 9.0A @ 100 VAC | |
| | power | <ul style="list-style-type: none"> • 900W | |
| | dissipation | <ul style="list-style-type: none"> • 3075BTU/hr max | |
| Dimensions | size | <ul style="list-style-type: none"> • 4RU | |
| | dimensions | <ul style="list-style-type: none"> • (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm) | |
| | shipping dimensions | <ul style="list-style-type: none"> • (LxWxH) 28.0 x 24.3 x 13.0" (711 x 617 x 330mm) | |
| | volume | <ul style="list-style-type: none"> • 2652in³ | |
| | weight | <ul style="list-style-type: none"> • 59lb (27kg) | |
| | shipping weight | <ul style="list-style-type: none"> • 70.5lb (32kg) | |
| Operating environment | | <ul style="list-style-type: none"> • Temperature: 5-40° C (40-105° F) • Humidity: 20-80% non-condensing | |
| Regulatory approvals | | <ul style="list-style-type: none"> • 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 | | <ul style="list-style-type: none"> • 1 year parts and labor • Contact an authorized Vista representative for full details of our limited warranty | |



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



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



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

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.

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