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Advanced  
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# Vega 100 Series Routers

Quick Setup Guide



In this Quick Setup guide, we'll cover the basic steps to get your Vega 100 Series router 'up and running' and controlling signal routes.

For full configuration and operational details, please refer to the user manual which accompanies the product.

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# Introduction

**Vega** is a new concept in signal routing with key additional benefits:

- **Asymmetric router configurations**
- **Coaxial copper or fiber connectivity**
- **Extensive redundancy options**
- **Ultra compact frame**
- **Comprehensive set of 'soft' and/or 'hard' control options**

This Quick Setup guide takes you through the simple steps to enable control of signal routing in a Vega 100 Series router using a PC. After unpacking the Vega router, you'll be up and running within minutes.

Please refer to the Vega 100 Series user manual for advanced setup and configuration.

## Vega 100 Series Routers

The **Vega 100 Series** offers the following router models:

- Vega 200 (up to 96 ports).
- Vega 400 (up to 192 ports).
- Vega 700 (up to 432 ports).



**Vega 200**



**Vega 400**



**Vega 700**

# Safety and EMC

For comprehensive safety information please see the Vega 100 Series user manual.

## Safety Standards

This equipment complies with the following standards:

**EN60950-1: 2006**



Safety of Information Technology Equipment Including Electrical Business Equipment.

**UL1419 (3rd Edition)** - UL File E193966

Standard for Safety Professional Video and Audio equipment.

## EMC Standards

This unit conforms to the following standards:

**EN55103-1:2009 (Environment E4)**

Electromagnetic Compatibility, Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 1. Emission

**EN55103-2:2009 (Environment E2)**

Electromagnetic Compatibility, Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 2. Immunity

Federal Communications Commission Rules, 47 CFR: 2009, Part 15, Subpart B (Class A)

### Mains Safety



- Caution: Double Pole/Neutral Fusing (**Vega 200** and **400** models).
- This equipment has more than one power supply cord. To reduce the risk of electrical shock, disconnect all the power supply cords before servicing.
- Isolate the unit from other product outputs before servicing.
- The IEC power inlets are the mains disconnection devices for this unit.
- To reduce the risk of electric shock, plug each power supply cord into separate branch circuits employing separate service grounds.
- Ensure that all of the router modules and cards are correctly installed and firmly seated before powering on the Vega router.

### Laser Safety EN60825-1 (2001)



- Caution: use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Viewing the laser diode with the optical fiber removed and with the aid of optical magnifiers may be hazardous.
- This product is a Class 1 laser product (output power <math><15\text{mW}</math>) at 1270 nm to 1610 nm with a beam divergence >math>30\text{mrad}</math>.

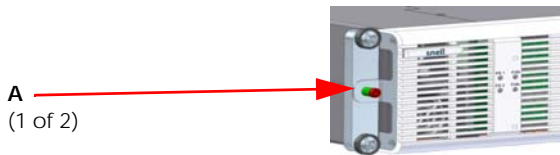


Figure 1: Vega 200 & 400 front door (Vega 200 shown)



Figure 2: Vega 200 & 400 Transit bracket screws (Vega 400 shown)

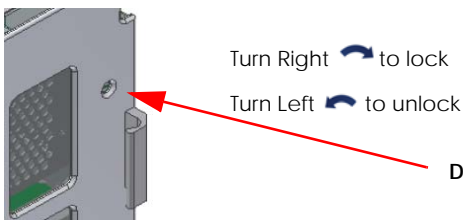


Figure 3: Vega 700 front door fastener

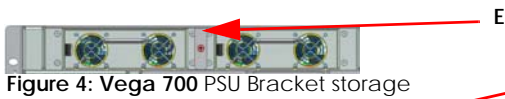


Figure 4: Vega 700 PSU Bracket storage

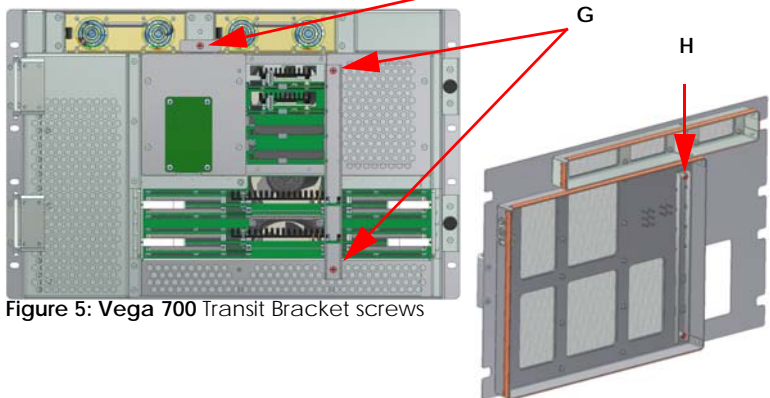


Figure 5: Vega 700 Transit Bracket screws

Figure 6: Vega 700 Transit Bracket storage on back of Vega 700 front door



# Unpacking

Vega's shipping carton includes:

- **An Information Pack** (Including this printed Quick Setup Guide and Vega 100 Series manuals on the CD)
- **The Vega 100 Series Router**
- **Up to two IEC mains cords**
- **Up to two USB 'memory sticks'** (Including 'reboot' program for lost IP address'. One per controller. Please refer to user manual)

Unpack the Vega router chassis. Place it on a suitable flat surface for testing.

## Vega 200 & 400 Transit Brackets:

Loosen the two captive fasteners on the Vega 200/400 front door (**A**).  
Open the Vega front door by pulling the door out and swinging it down.

Loosen the four transit bracket screws (**B**) and slide bracket to the right and remove it.  
Re-tighten the four screws.

Unscrew the single transit bracket screw (**C**) and remove the bracket.

Put both transit brackets, the single screw and the packing in the Vega shipping carton, in case subsequent transportation is required.

Close the Vega 200/400 front door and re-tighten the fasteners.

## Vega 700 Transit Brackets:

Unlock the Vega 700 quarter-turn door fastener (**D**). Open the door.

Unscrew the PSU Transit Bracket screw (**F**) and remove Bracket. Rotate the bracket 90 degrees and screw it into its storage position (**E** in **Figure 4**).

Unscrew the two Vega Card Transit Bracket screws (**G**) and remove the bracket. Secure the bracket in its storage position on back of door (**H**).

Put Vega 700 packing in its shipping carton, in case subsequent transportation is required.

Close the Vega 700 front door and lock the quarter-turn door fastener.

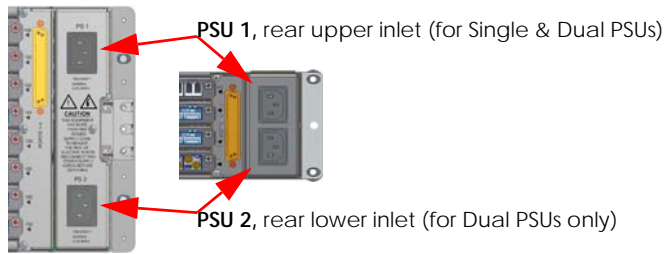


Figure 7: Vega 200 & 400 Rear IEC Power Inlets

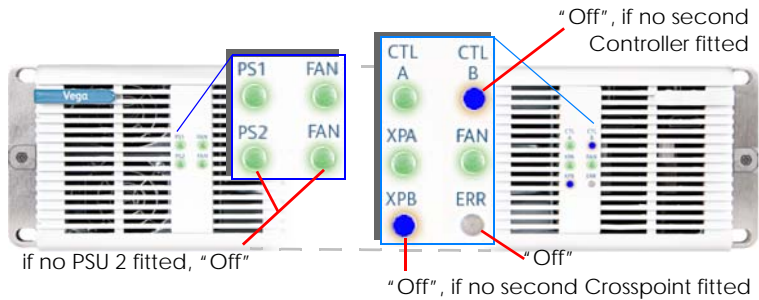


Figure 8: Vega 200 & 400 Front LEDs (Vega 200 shown)

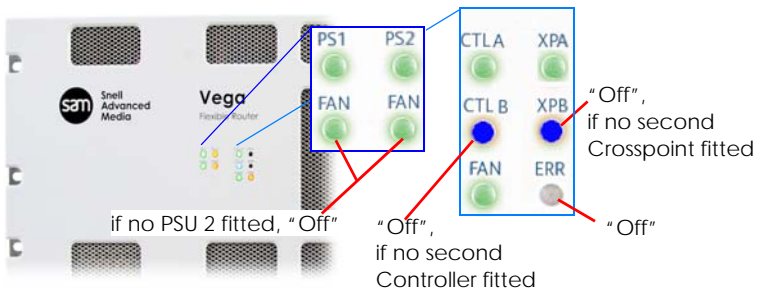


Figure 9: Vega 700 Front LEDs



Figure 10: Vega 700 Rear IEC Power Supply Inlets





# Power & Status Check

**Note:** For Vega 200 & 400 - see **Figure 7** and **Figure 8**.  
For Vega 700 - see **Figure 9** and **Figure 10**.

## Power

A Vega 100 Series router is supplied with either one or two Power Supply Units (PSUs).

Connect the supplied IEC mains cord to the **PSU 1** rear inlet.

If a second PSU is fitted,  
connect a second IEC mains cord to the **PSU 2** rear inlet.

Connect the IEC cord(s) to a live mains source; the Vega will power up.

## Front LED Status

Check the status of the front LED indicators after power up.  
See **Figures 8 (Vega 200 and 400)** and **Figure 9 (Vega 700)**.

Check the LEDs are correct for the PSU, Controller (CTL) and Crosspoint (XP) redundancy router options fitted.

## Troubleshooting

If the LED colors displayed are not as shown in the figures, please ensure that:

1. The mains supply is on and the power cord(s) are connected securely.
2. The PSU(s) and cards are all firmly seated.

If further support is required contact your local SAM representative. **Contact details** can be found by visiting [www.s-a-m.com/support/247-support-contact-details](http://www.s-a-m.com/support/247-support-contact-details)

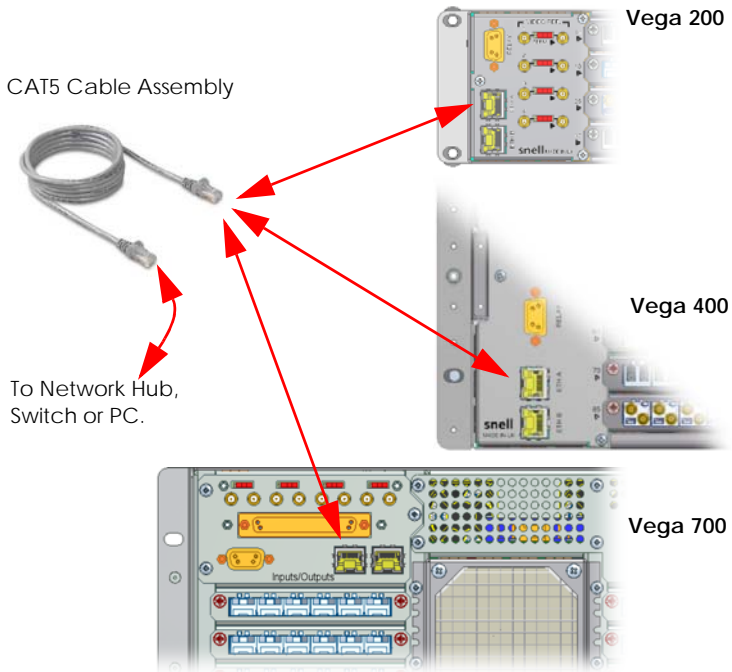


Figure 11: Rear Ethernet Network ports

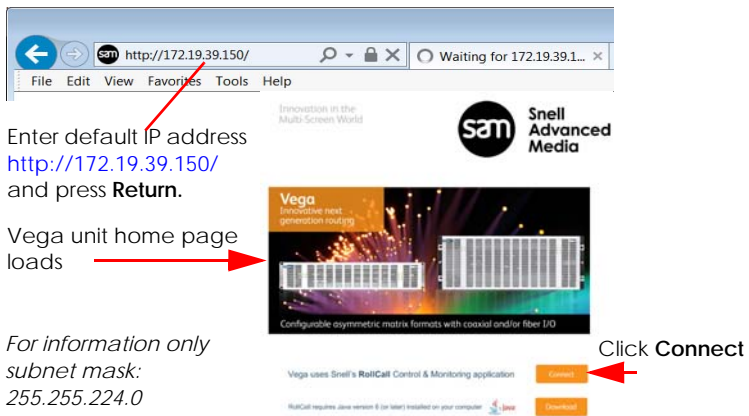


Figure 12: Browse to the Vega home page



# Browser Login

## Network Connection

The Vega 100 Series router is supplied with either one or two controllers, depending on the redundant options purchased. For the purpose of checking signal routing functionality, it is only necessary to connect to Controller A.

1. Connect a standard CAT5 cable to port ETH 1 on the rear of the Vega router (see **Figure 11**).
2. Connect the other end to your local network or PC.
3. Open a web browser on your PC.
4. Enter the default IP address of Controller A (see **Figure 12**).

The Vega home page displays.

Vega Controller	Default IP Address
Controller A	172.19.39.150
Controller B	172.19.39.151

5. Click on the **Connect** button at the bottom of the Vega home page to connect to the Vega router.

**Note:** Java is required to connect to the Vega router. If Java is not installed on your PC, click **Download** on the Vega home page to install Java.

**Note:** To connect directly to **Vega**, you will need to set the IP address of your PC manually.

Ensure the IP address you choose does not conflict with the Vega default address.

**Note:** Older PCs may require the use of a crossover CAT5 cable.



Figure 13: Digital Signature message

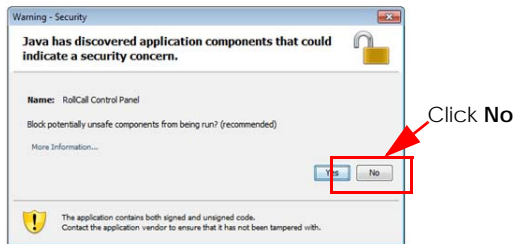
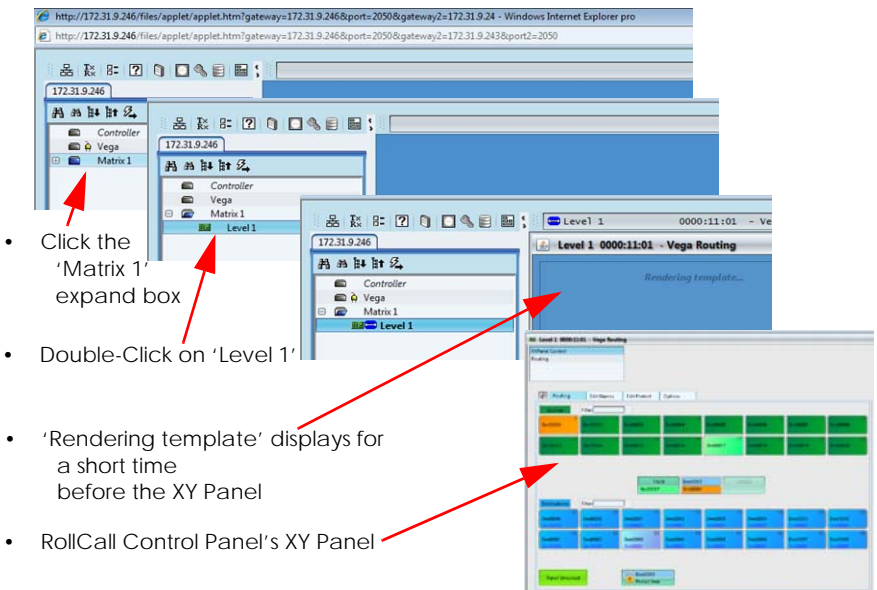


Figure 14: Java Security message



- Click the 'Matrix 1' expand box
- Double-Click on 'Level 1'
- 'Rendering template' displays for a short time before the XY Panel
- RollCall Control Panel's XY Panel

Figure 15: Network tree panel in Vega screens and displaying XY Panel.

## Browser Login (Continued)

**Note:** If an application digital signature message displays (see **Figure 13**) check the **Always trust content from this publisher** check box and then click **Run**.

**Note:** If a Java security message displays (see **Figure 14**), click the **No** button.

The browser connects to the Vega unit and a Network tree panel displays on your PC screen. **Figure 15** explains how to expand the network tree and display the XY Panel screen.

## Change the Controller IP Address details (Optional)

Required if you need to change the Vega IP address to suit your network.

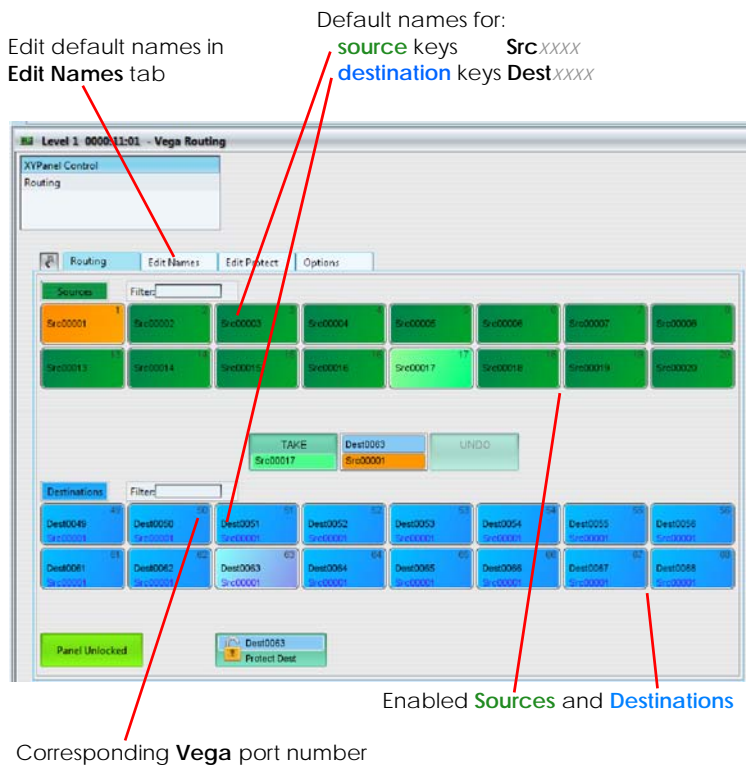
- Double-click on the **Controller** in the Network tree panel (see **Figure 16**).
- Click on the **Coms Setup** option in the Controller window to view the current network settings.
- Change the network settings to suit your network.
- Click on the **Restart Unit** button to apply the changes.

The Vega router will restart and you will need to connect to it using the new IP address.

# XY Panel

The RollCall Control Panel's **XY panel (Figure 16)** displays all the currently 'enabled' **sources** and **destinations**. The example XY panel shown is for a router configured with 16 sources and 16 destinations (32 ports).

Make your signal connections and use the XY panel to test your router functionality.



**Figure 16:** XY Panel



## External Control

Vega serial and IP ports are set by default to allow external system controllers to be directly connected, to control the router.

Vega Control Ports	Configured Protocol	Comment
Serial ports 1-4	SW-P-02 in	
IP interface ports	SW-P-02 in	(IP port 2008)

Video source and destination numbers are as labelled on the router rear panels. Please refer to the Vega User Manual for audio offsets and mapping of audio inputs and outputs.

### Redundant Internal Controller (Controller B if fitted)

If the main internal controller (Controller A) fails, control is automatically transferred to the redundant internal controller (Controller B).

Controller B is on the second ethernet port and has default IP address 172.19.39.151.

**Note:** A RollCall Control Panel will always connect to the active controller. By default this is Controller A with two functioning internal controllers.

## Finally

Once testing has been successfully completed, power off the Vega 100 Series router by removing the mains leads from the live power source.

The router can now be installed where required. See the Vega 100 Series User Manual for rack mounting details.

## Updating Vega

The software and firmware of both Vega controllers can be updated remotely using the IP network link (via the SAM RollCall control panel screen).

It is also possible to update the firmware of the input/output cards and the crosspoint cards.

Please refer to the Vega 100 Series user manual for the recommended update procedure.



**Notes:**

Company policy is one of continuous product improvement. Specifications are subject to change without notice.

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