Quick Start Guide

Jaguar 3 DIGITAL VIDEO ROUTING SWITCHER

PESA

Step 1 INSPECT JAGUAR3 COMPONENTS

- Carefully unpack shipping container and verify that all components identified below are included with your shipment.
- Visually inspect each component for any signs of damage in shipment or transit.
- If any components are missing or damaged, contact PESA Customer Service.

VERIFY ITEMS SHOWN BELOW ARE INCLUDED WITH SHIPMENT*

VIDEO ROUTER FRAME

PRC Interface Adapter Cable	Power Cord for Each Included Power Supply Module	Quick Start Guide	USER GUIDE

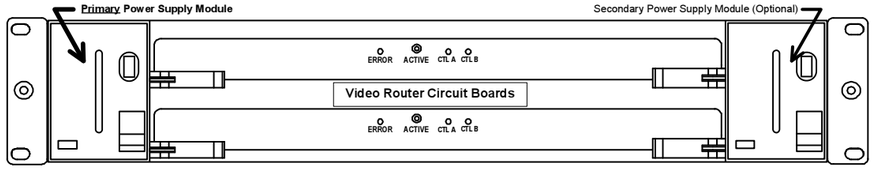
*If any components are missing or damaged, contact PESA Customer Service by phone or e-mail.

Customer Service: (256) 726-9222
Toll Free: (800) 323-7372
Fax: (256) 726-9268
Email: *service@PESA.com*

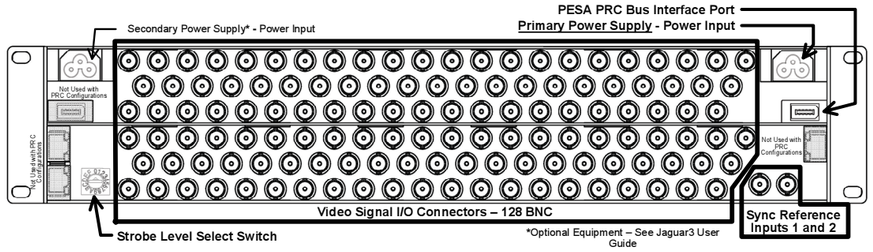
Step 2 GET ACQUAINTED

- Whether installed as a single router, as a component of a multi-frame router system, or added to an existing PESA router system, Jaguar3 communicates with and receives control commands from either a PESA 3500PRO or PERC2000 System Controller that is common to all router components over the proprietary PESA Router Control (PRC) bus.
- All router configuration and monitoring functions are performed through the controller's graphical user interface software application running on a host PC.
- Operator interface with Jaguar3 is unified with other system components through various available remote control panels.
- An interface cable is provided to adapt the 9-pin RS-422 PRC bus connector to the PRC connector on Jaguar3 rear panel.
- A front view illustration of a typical Jaguar3 video frame showing location of key components is shown at top of next column.
- Removing front cover provides access to video router boards; plus primary and, if equipped, secondary power supply or system controller modules.
- A minimum of one power supply module is required – installed in primary power supply module slot.
- A second power supply module may be installed in secondary slot for power redundancy.
- Each Jaguar3 power supply module also contains cooling fans for the chassis and a fan controller circuit that monitors and controls operation of fans.
- Video switching and interface circuitry is contained on Video Router Circuit Boards. In addition, each board is equipped with front edge status lights that provide visual indication of active system controller and system errors.

Step 2 GET ACQUAINTED (CONT.)



TYPICAL JAGUAR3 REAR PANEL CONNECTIONS



For further information, refer to Jaguar3 Router User Guide

Step 3 EQUIPMENT RACK INSTALLATION

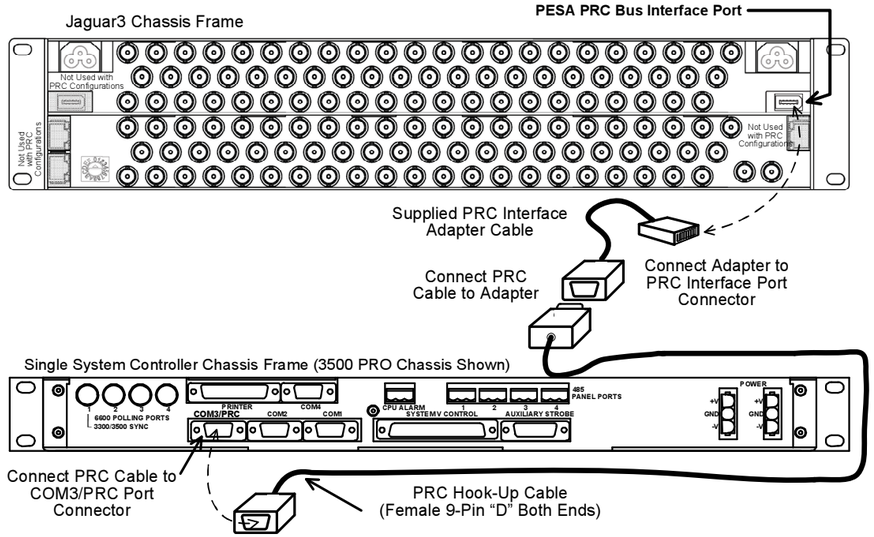
- Jaguar3 router frames are designed for installation in a standard 19-inch equipment rack.
- Front cover/local control panel must be detached to gain access to mounting brackets.
- You must install the supplied rack rail kit when mounting router frame in a rack.
- Refer to Jaguar3 User Guide for complete information on proper rack mounting of router components.
- Be sure there is sufficient space behind Jaguar3 to allow for signal, interconnect and power cables; and around all sides for cooling.
- Use all chassis mounting holes, and tighten mounting hardware securely using rack equipment manufacturer's suggested torque settings.
- **Fans mounted inside of this equipment provide forced-air cooling. Do not block airflow around these fans.**
- Detach front cover from video frame by loosening the two captive thumb screws located on either edge of the front cover.
- Carefully remove front cover from frame and set aside.
- Insert frame assembly into equipment rack and support bottom of frame until all mounting hardware has been installed and properly tightened.
- Install bottom panel-mounting screws through holes in frame mounting bracket.
- Tighten all panel-mounting screws until secure.
- Replace front cover on frame by aligning captive screws with captive nuts on frame mounting brackets and secure by tightening thumb screws.

For further information, refer to Jaguar3 Router User Guide

Step 4 QUICK SYSTEM HOOK-UP

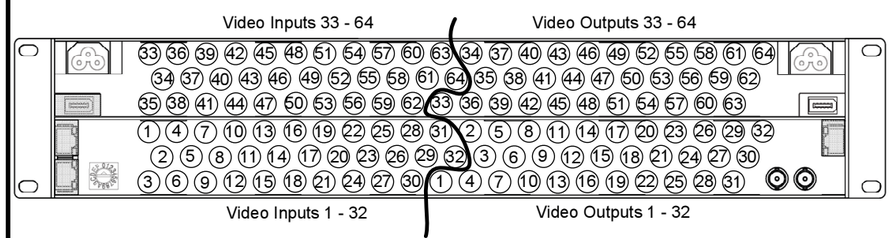
EXTERNAL CONTROL SYSTEM CONNECTION

- Control functions are communicated between Jaguar3 and an external PESA 3500PRO or PERC2000 System Controller through the PESA Router Control (PRC) interface bus.
- An adapter cable is provided with the router to connect PRC Interface Port of router to female 9-pin "D" PRC cable.
- Install adapter as shown below, and connect one end of PRC hook-up cable to male end of adapter.
- System controller cards may be mounted in a stand-alone chassis frame, or may be installed in a Cheetah Series video matrix switcher.
- Regardless of where controller is located, connect remaining end of PRC cable to "COM3/PRC" port on chassis.
- A single controller stand-alone chassis is shown in Figure 3-2 as an example.
- Regardless of which controller installation method is used in your system, rear panel port labeled "COM3/PRC" is used to complete connection with Jaguar3 router.



VIDEO CONNECTIONS

- There are 128 BNC I/O connectors on Jaguar3 rear panel, 64 each for video input and output signals, as shown below.
- Using figure as a reference, connect video input and output cables to router.
- 32x32 systems use 64 BNC connectors located on lower rear panel board for I/O signal connection.



For further information, refer to Jaguar3 Router User Guide

Part No. 81-9059-0691-0 Rev. B

Quick Start Guide

Jaguar 3

DIGITAL VIDEO ROUTING SWITCHER

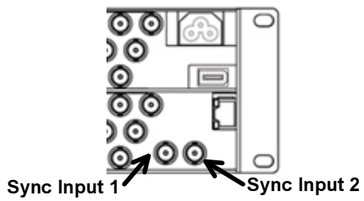
PESA

Step 4 QUICK SYSTEM HOOK-UP (CONT.)

SYNC REFERENCE CONNECTIONS

- Jaguar3 is capable of operating in either asynchronous or synchronous switching modes.
- In many applications, asynchronous switching is acceptable, but in other circumstances synchronous, vertical interval timed switching is used to prevent a visual “glitch” in the output signal when sources are switched.
- Jaguar3 is capable of synchronous, vertical-interval switching by applying a NTSC, PAL or Tri-Level sync source, 0.5V p-p to 2.0V p-p, to the sync reference input.
- Sync connectors 1 and 2, shown at right, are terminating connections.

Jaguar3 Video Frame
Dual Terminated Sync Connectors



- Sync input 1 is default sync source.
- Jaguar3 allows connection of a second source of sync reference through Sync Input 2.
- Controller user interface allows selective application of either sync reference signal to any router output.

FRAME STROBE LEVEL

- Strobe level in router configuration files may be thought of as a hardware address.
- This switch setting is normally made at the factory and should not need to be changed.
- If for any reason you ever need to select a different strobe level for the Jaguar3 router, use a small blade screwdriver to set the switch position to the desired strobe setting.
- Settings are entered in a hexadecimal numbering system.

POWER CONNECTIONS

- Power for Jaguar3 router is derived from wall receptacles.
- No special direct wiring or heavy gauge wire is required for this equipment.
- There are two power connector access ports, located on upper left-hand side and upper right-hand side of rear panel.
- These ports allow access to power receptacle on power supply/controller module located in slot.
- In a non-redundant power installation, only the primary slot will have a power supply module installed.
- Attach power cord through proper access port to receptacle on power supply module.
- Connecting power cord to a source of power immediately applies power to router.
- Do not apply power for first time until all signal and control connections have been made and verified.

Step 5 OPERATION

- There are no user operating controls contained on Jaguar3 chassis frame.
- All router operations are performed through router control system.

Step 6 IN CASE OF DIFFICULTY

- If you experience any difficulty with the Jaguar3 router system, please contact PESA’s Customer Service Department.
- Skilled technicians are available to assist you 24 hours a day, every day of the year.

Part No. 81-9059-0691-0 Rev. B