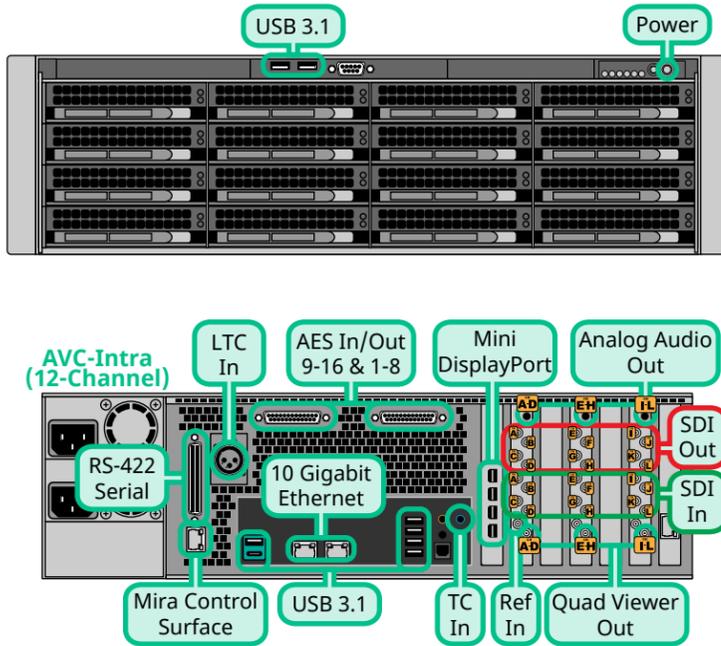


Mira / Rio Replay

Caution: Before you set up and operate your server, see the "Important Safety Instructions" in your QuickStart Guide or User Guide.

Installation and Cabling

Ports and Connectors



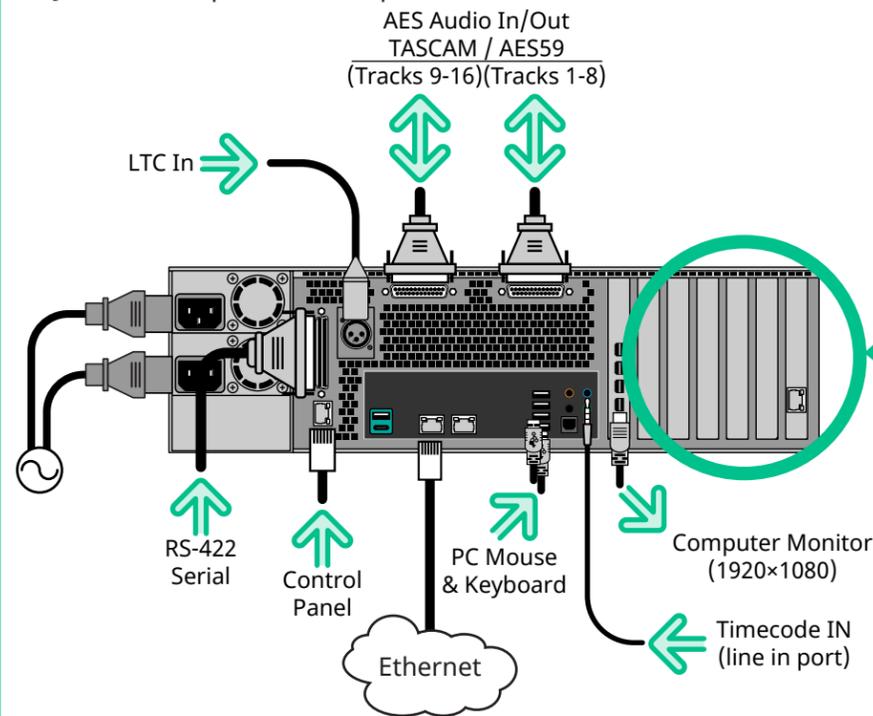
Notes:

- Only the Reference BNC (Ref In) on the left (Ch A-D) card is operational when more than one card is installed.
- The AES59 Digital Audio I/O ports require the TASCAM AES DIGITAL DB25 Breakout Cable option (not supplied with system).
- The number of SDI inputs and outputs depends on the model of server you have.
- If you are recording from, or playing into, an external device you must have all devices connected to the same reference signal to ensure proper audio/video synchronization.
- A breakout cable connects to the Serial port and provides 8 RJ45 serial connectors.
- Both RS-422 serial and ethernet control are supported for remote control.
- The TC In (LINE IN) audio port is used for TC Chase.

Power, Video, Audio and Control Cabling

Note: The number of Video I/O cards in your server depends on the options installed. Every video channel features an SDI input and SDI output; and every channel can be used as a recorder or player.

Note: An octal breakout cable is supplied with the server and provides 8 RJ45 male connectors for serial control over the first 8 channel transports. RJ45 to D9 adapters are also provided.



Note: It is recommended that you always connect the AC Power Adapter to the device before connecting to Mains Power.

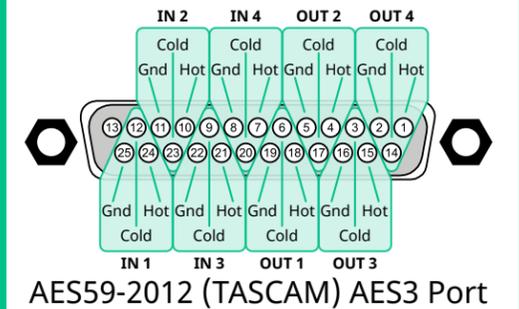
Specifications

SDI Video Formats	Frequency
720p	50/59.94 Hz
1080i	50/59.94 Hz
1080p	50/59.94 Hz
1080p	60 Hz
1080p	30 Hz
1080p	29.97 Hz
1080p	25 Hz
1080p	24 Hz
1080p	23.98 Hz

Default Password	
Rio Replay Explorer Administrator	multiflex
Input Voltages	
100 to 240V~	3 to 1.5A
60 to 50Hz	
Operating Environment	
Temperature:	20 - 35°C (68 - 95°F)
Humidity:	20 - 80%

Video/Audio Input Specifications	
Video Inputs, SDI	SMPTE 292M/424M/ST-2082
Embedded Audio	14 Channels, 48kHz at 24-bit
AES Discrete Audio	8 or 16 Channels AES59-2012
	TASCAM AES3 Digital
Reference Input	Tri-Level HD, Bi-Level, or Composite Analog SD; Terminating

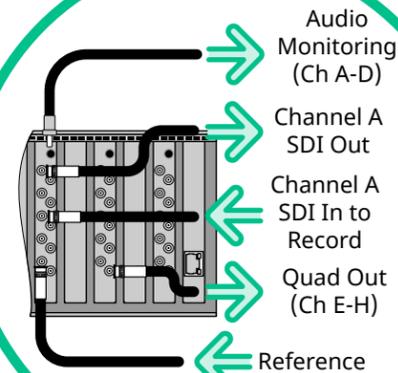
Port Pinouts



AES59-2012 (TASCAM) AES3 Port

RS422 (RJ45/DB9)	
Pin	Signal
1	Gnd
2	Tx-
3	Rx+
4	Rx Gnd
5	n/c
6	Tx Gnd
7	Tx+
8	Rx-
9	n/c

AVC-Intra (12-Channel)



Note: Some video formats require specific hardware to be installed in your server.



Mira / Rio Replay

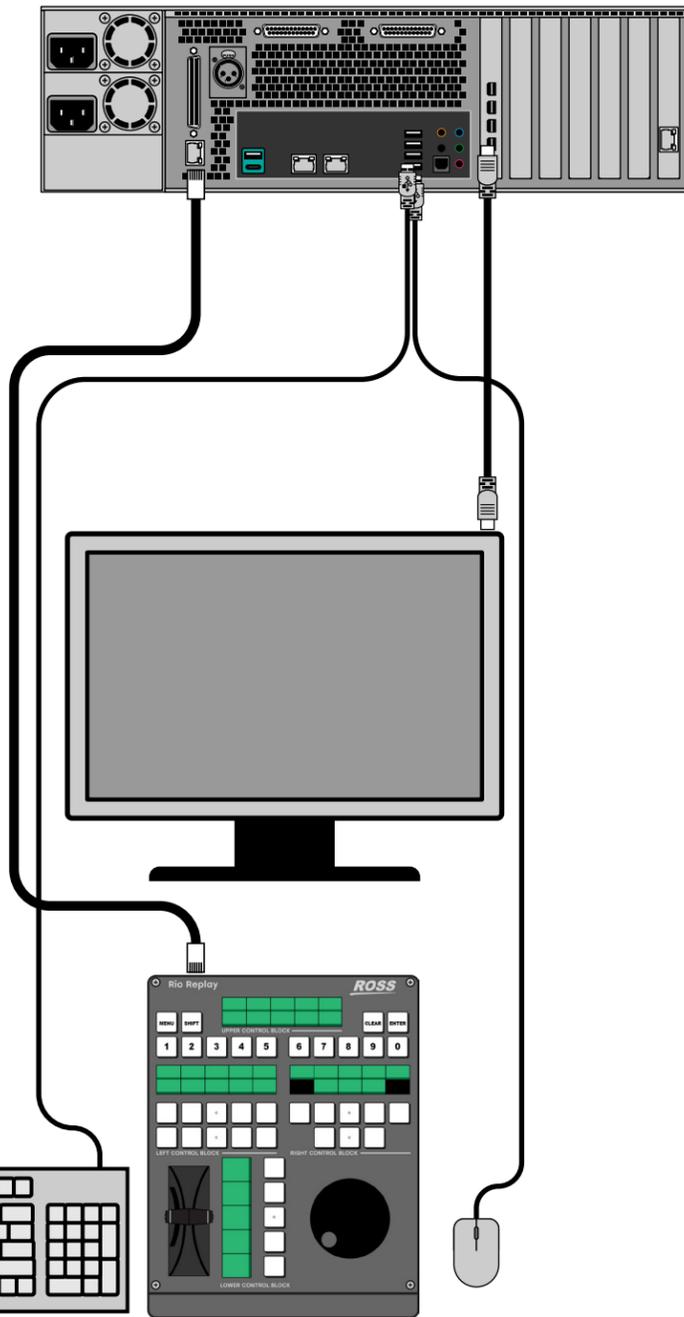


Caution: Before you set up and operate your server, see the "Important Safety Instructions" in your QuickStart Guide or User Guide.

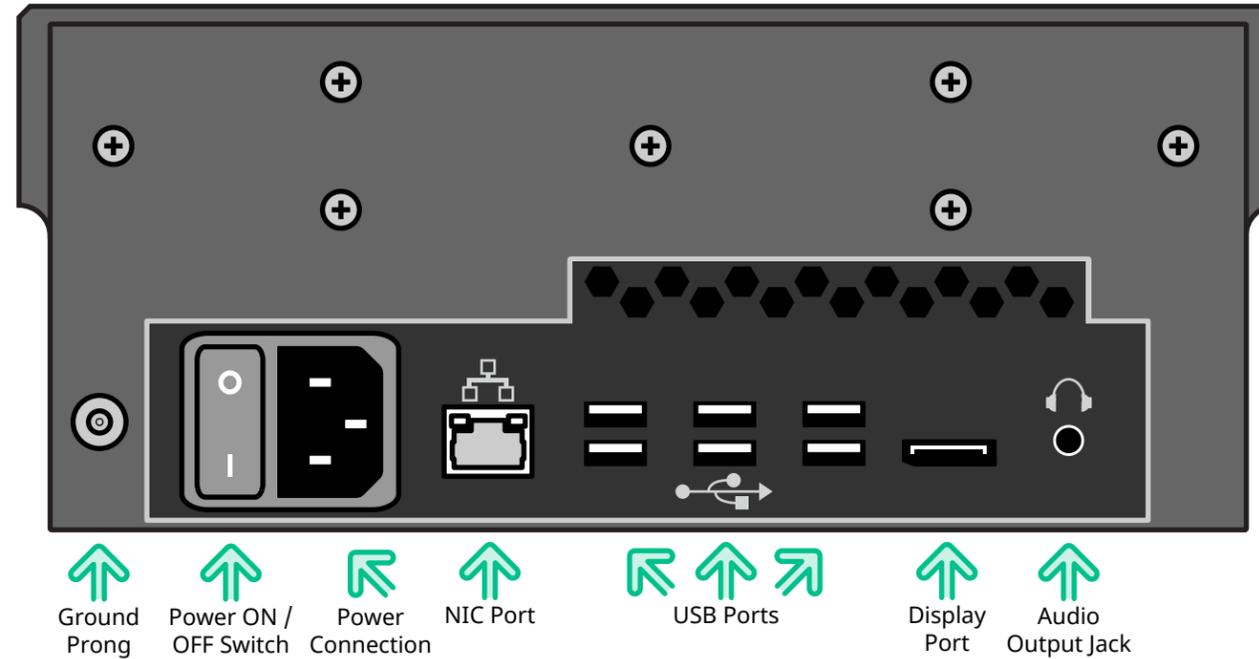
Installation and Cabling

User Interface Connection

Note: The Control Panel connects to the **AVC-Intra** system in the same way.



Control Panel Rear Ports and Cables



To Set Up the Rio Replay Control Panel

1. Ensure the Rio Replay Server Chassis is securely rack mounted, and that the 1920x1080 Computer Monitor, USB Keyboard, and USB Mouse are connected.
2. Ensure the **Power ON / OFF** Switch on the Control Panel is set to the **OFF** position, then connect the AC Power Adapter to the Power Connection located on the rear of the Control Panel.
3. Connect the Ethernet cable to the NIC Ports on the Control Panel and the Server Chassis.
4. Set the **Power ON / OFF** Switch to the **ON** position. The LCD screens will illuminate.
5. In the **Rio Replay Config** application included on the Server, navigate to the **Control Panel** tab. In the **Control Panel Config 1** area, click the **Control Panel Identifier** button and select the Control Panel that you want to assign to channels. The Control Panel is identified by its MAC address.
6. For further information on using the Control Panel, refer to the **Replay Setup**, **Replay Overview**, and **Replay Events** chapters in the Rio Replay User Guide.

Power & Environmental Specifications

Power Information:

- Rio Replay Server Chassis Input AC Power Requirements:
- 100-127VAC / 15.0-12.0A / 50-60Hz (x2)
 - 200-240VAC / 8.5-7.0A / 50-60Hz (x2)
- Rio Replay Control Panel Input AC Power Requirements:
- 100-240VAC / 0.85A Max / 50-60Hz

Operating Environment:

- Rio Replay Server Chassis:
- Recommended Operating Temperature: 13°C to 35°C (55°F to 95°F)
 - Recommended Operating Humidity: 20% to 80% non-condensing
- Rio Replay Control Panel:
- Recommended Operating Temperature: 0°C to 40°C (32°F to 104°F)
 - Recommended Operating Humidity: 20% to 50% non-condensing

Viewing the MAC Address

1. Ensure the AC Power Adapter is connected to the Control Panel and the **Power On / Off** Switch is set to the **ON** position.
2. Press and hold the **MENU** key. While holding the **MENU** key, press the **ENTER** key. The Engineering Menu opens.
3. In the Engineering Menu, press the **1** key to view the network info. The MAC Address is shown on the LCD display.
4. Press the **MENU** key to return to the Engineering Menu, then press the **MENU** and **ENTER** keys again to exit it.

Symbol Definitions



Protective Earth: This symbol identifies a Protective Earth (PE) terminal, which is provided for connection of the supply system's protective earth (green or green/yellow) conductor.



Important: This symbol on the equipment refers you to important operating and maintenance (servicing) instructions within the Product Manual Documentation. Failure to heed this information may present a major risk of damage or injury to persons or equipment.



Warning: The symbol with the word "Warning" within the equipment manual indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: The symbol with the word "Caution" within the equipment manual indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



Warning Hazardous Voltages: This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product enclosure that may be of sufficient magnitude to constitute a risk of shock to persons.



ESD Susceptibility: This symbol is used to alert the user that an electrical or electronic device or assembly is susceptible to damage from an ESD event.

ROSS



Caution: Before you set up and operate your server, see the "Important Safety Instructions" in your QuickStart Guide or User Guide.

EMC Notices

United States of America — FCC Part 15

This equipment has been tested and found to comply with the limits for a class A Digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Important: Changes or modifications to this equipment not expressly approved by Ross Video Limited could void the user's authority to operate this equipment.

Canada

This Class "A" digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe "A" est conforme à la norme NMB-003 du Canada.

Korea - Class A Statement

이 기기는 업무용 환경에서 사용할 목적으로 적합성 평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.

This device has been evaluated for conformity for use in a business environment. When used in a home environment, there is a danger of interference.

Europe

This equipment is in compliance with the essential requirements and other relevant provisions of CE Directive 93/68/EEC.

International

This equipment has been tested to CISPR 32:2015 along with amendment AMD1:2019, and found to comply with the limits for a Class A Digital device.

Important: This is a Class A product. In domestic environments, this product may cause radio interference, in which case the user may have to take adequate measures.

Regulatory and Safety Notices to Service Personnel

Before using this product and any associated equipment, refer to the "Important Safety Instructions" listed in this manual to avoid personnel injury and to prevent product damage. Product may require specific equipment, and/or installation procedures to be carried out to satisfy certain regulatory compliance requirements. Notices have been included in this publication to call attention to these specific requirements.

Important Safety Instructions

- Warning:** Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with manufacturer's instructions.
- Do not install near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not expose this apparatus to dripping or splashing, and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
- To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
- The mains plug of the power supply cord shall remain readily operable.
- Warning:** Indoor Use: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- The safe operation of this product requires that a protective earth connection be provided. A grounding conductor in the equipment's supply cord provides this protective earth. To reduce the risk of electrical shock to the operator and service personnel, this ground conductor must be connected to an earthed ground.

General Handling Guidelines & A Word About Static Discharge

- Careful handling, using proper ESD precautions, must be observed.
- Power down the system before PCB removal.

CAUTION: Avoid handling the switcher circuit boards in high static environments such as carpeted areas, and when synthetic fiber clothing is worn. Touch the frame to dissipate static charge before removing boards from the frame, and exercise proper grounding precautions when working on circuit boards.

- Warning:** This apparatus, when equipped with multiple power supplies, can generate high leakage currents. To reduce the risk of electric shock, ensure that each individual supply cord is connected to its own separate branch circuit with an earth connection.
- CAUTION:** These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- Service barriers within this product are intended to protect the operator and service personnel from hazardous voltages. For continued safety, replace all barriers after servicing.
- This product contains safety critical parts, which, if incorrectly replaced, may present a risk of fire or electrical shock. Components contained within the product's power supplies and power supply area are not intended to be customer-serviced and should be returned to the factory for repair.
- Use only power cords specified for this product and certified for the country of use.
- The safe operation of this equipment requires that the user heed and adhere to all installation and servicing instruction contained within the equipment's Setup Manuals.
- CAUTION:** This product includes "Ethernet Ports" which allow this product to be connected to local area networks (LAN). Only connect to networks that remain inside the building. Do not connect to networks that go outside the building.
- For use at altitude 2000m or lower.
- For use in non-tropical locations.
- CAUTION:** Do not make mechanical or electrical modifications to the equipment or add metallic items, such as metallic foil labels, to the printed circuit boards. Modifications can impair regulatory compliance, or performance and may void your warranty.
- CAUTION: RISK OF ABNORMAL SUPPLY LOADING:** USB connected accessory loading not to exceed 5 USB unit loads. Each USB unit Load on Rear panel is limited to 250mA max.
- CAUTION:** This apparatus contains a Lithium battery, which if replaced incorrectly, or with an incorrect type, may cause an explosion. Replace only with a CR2032 coin type lithium battery. Dispose of used batteries according to the manufacturer's instruction by qualified service personnel.



Having a problem?

North America:
Telephone: +1-613-686-1557
Toll free within North America: +1 833-859-0499
Open Monday to Friday 8:30 a.m. to 6:00 p.m. EST,
with 24/7/365 on-call service.

EMEA:
Telephone (Toll free Int'l): +800 3540 3545*
Open Monday to Friday 8:30 a.m. to 5:00 p.m. GMT.

Australia/Sydney:
Local support number: 1300 007 677*

Email:
techsupport@rossvideo.com

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