



Stage Rack

Remote mic/line I/O live sound component



Avid® live sound systems are complete state-of-the-art live production solutions comprised of high-quality components that work together as one, offering studio-quality sound, powerful performance, rock-solid reliability, and unprecedented flexibility. The Stage Rack serves as the remote I/O component of both D-Show® and Profile Systems for stage connections. Working in conjunction with FOH Rack, Stage Rack can be expanded to house a variety of analog and digital inputs and outputs for mic and line-level connections, which are delivered through a 75 Ohm BNC digital snake connection to the FOH Rack. You can use up to two Stage Racks simultaneously to handle large-scale productions—with up to 96 total mic/line inputs and outputs.

Features

- Durable 10-space steel rack houses a maximum of 48 inputs and 48 outputs
- Base configuration comes standard with 48 analog XLR mic/line inputs (maximum capacity) and 8 analog XLR line outputs (expandable to 48 with optional output cards)
- Up to two Stage Racks can be connected to an FOH Rack for a total I/O count of 96 mic/line inputs and outputs
- High-quality remote connection from the Stage Rack to an FOH Rack via dual redundant 75 Ohm BNC digital snakes (not included) delivers maximum audio fidelity
- Customize the I/O with any number and combination of analog and/or digital inputs, analog and/or digital outputs, and A-Net outputs—up to 48 total inputs and outputs in a single rack
- Comes standard with dual redundant, field-replaceable power supplies

Customizable for Your Interface Needs

You can choose to start with the Stage Rack base configuration (48 analog mic/line inputs, 8 analog line outputs) and expand the output count with optional output cards as needed (up to 48 total outputs). Or start from the ground up and completely customize your rack with any combination of analog and digital inputs and outputs (up to a maximum 48 inputs and 48 outputs). Stage Rack has a variety of analog, digital, and A-Net I/O option cards available to suit your interface needs (see “Stage Rack Options” on the next page).

Maximum Audio Fidelity

Signals from Stage Rack are delivered to FOH Rack through affordable and industry-proven dual redundant 75 Ohm BNC digital snakes (not included). This ensures that you get pristine sound, as the snake system allows sensitive mic signals to be converted to digital as close to the source as possible, preserving the maximum audio fidelity of the signal.

Make It a Duo

For audio productions that require more than 48 inputs and/or outputs, you can employ two Stage Racks per FOH Rack in your system for a total of 96 inputs and 96 outputs. Simply add a second Snake Card (available as an FOH Rack option) to your FOH Rack to complete a second dual redundant connection.

For more information visit www.avid.com/stagerack

Stage Rack—Remote I/O Live Sound Component

Stage Rack Options

Stage Rack has a number of options available to meet your interface needs.

SRI Card—Get a replacement or spare eight channels of fully recallable analog mic/line-level inputs with 48V of phantom power, a phantom power LED indicator, and an LED signal presence indicator per input. Stage Rack comes standard with the full complement of six SRI Cards, but you can opt to customize a rack with any combination of up to six input cards for a total of 48 input channels per Stage Rack.

SRO Card—Add eight channels of analog line-level outputs to your system, with 24-bit D/A converters. Stage Rack comes standard with one SRO Card; you can install up to six output cards of the same type—or mix and match—for a total of 48 output channels per rack.

DSI Card—Add eight channels of digital input, either as AES/EBU pairs on four individual XLR connectors, or a single ADAT optical interface, plus a Word Clock output connector, and SRC and “lock” status LEDs. You can customize a rack by installing up to six input cards of the same type—or mix and match—for a total of 48 input channels per Stage Rack.

DSO Card—Add eight channels of digital output simultaneously as AES/EBU pairs via four XLR connectors (with left/right signal present LEDs) and through an ADAT optical interface. You can install up to six output cards of the same type—or mix and match—for a total of 48 output channels per Stage Rack.

Personal Q—Achieve the highest level of personal monitoring, as artists and engineers work in concert to create optimal monitor mixes. With the Personal Q™ (PQ) system, just install one PQ Rack into Stage Rack and you can employ up to eight PQ Controllers for discrete two-way mixing.

ANO A-Net Output Card—Add A-Net integration to your system to support personal monitoring through Aviom networks and Pro16 Series mixers. The card transmits up to 16 channels of 24-bit/48 kHz audio to an unlimited number of Pro16 Series devices, providing you with integrated software control of all A-Net parameters. Each ANO card takes up two card slots, so you can install up to three ANO cards to create multiple, discrete 16-channel networks—or mix and match with other output cards—for a total of 48 output channels per Stage Rack.

Specifications

STAGE RACK SPECIFICATIONS (at maximum configuration)

- Dimensions (H x W x D)
 - 17.5 x 17.0 x 12.2 inches (445 x 432 x 310 mm)
- Rack Spaces
 - 10 U
- I/O Card Slots
 - 12 (6 input, 6 output)
- Weight
 - 86 lbs (39 kg)
- Power Requirements
 - 90–260 VAC, 50–60 Hz, 140 W
- Snake 1 In/Out Connectors (to FOH Rack)
 - BNC female (2)
- Snake 2 In/Out Connectors (to FOH Rack)
 - BNC female (2)
- Snake Cable Type
 - 75-Ohm coaxial cable
- Snake Cable Length
 - 250 ft (76 m) with Belden 1855A or 500 ft (152 m) with Belden 1694A
- PQ Link Connector (to PQ Rack)
 - XLR4-M
- PQ Link Cable Type
 - 110-Ohm (digital) cable
- Max PQ Link Cable Length
 - 15 ft (4.6 m)

STAGE RACK I/O (standard configuration)

SRI ANALOG INPUT CARD (6)

- Connector (x8)
 - XLR3-F
- Phantom Power
 - +48V (individually switchable per channel via software)
- Maximum Input Level
 - +34 dBu with pad (0 dBu = 0.775V rms)
- Pad
 - 20 dB
- Gain
 - +10 dB to +60 dB
- Input Impedance
 - pad off: 40K Ohm, balanced; pad on: 1.33K Ohm, balanced
- EIN
 - -126 dBu (maximum gain, 150 Ohm source, 22 Hz–20 kHz BW)
- LEDs
 - Signal presence (indicates -37 dBu or greater), +48V
- A/D
 - 24-bit, delta sigma

SRO ANALOG OUTPUT CARD (1)

- Connector (x8)
 - XLR3-M
- Maximum Output Level
 - +24 dBu (0 dBu = 0.775V rms)
- Output Impedance
 - 50 Ohm
- LEDs
 - Signal presence (indicates -37 dBu or greater), +48V
- D/A
 - 24-bit delta sigma, 128x oversampling



Stage Rack front panel



Stage Rack back panel

Corporate Headquarters
800 949 AVID (2843)

Asian Headquarters
+ 65 6476 7666

European Headquarters
+ 44 1753 655999

For more information visit www.avid.com/stagerack