



FOH Rack

DSP processing and local 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 system, offering studio-quality sound, powerful performance, rock-solid reliability, and unprecedented flexibility. The FOH Rack serves as the central processing component of both D-Show® and Profile Systems, housing an embedded control computer, DSP Mix Engine Cards, interface option cards, and I/O for local inserts and outboard devices. It works in conjunction with up to two Stage Racks for remote stage connections, employs VENUE software as its graphical user interface, and enables full Pro Tools® integration with optional interface cards.

Features

- Durable 10-space steel rack houses local I/O, control computer, DSP processing cards, and interface options
- Includes VENUE software, the industry's easiest yet most comprehensive control software
- Supports up to five DSP Mix Engine Cards (comes standard with three), allowing up to 96 input and 16 stereo effects return channels (128 processing channels) to be mixed, with ample headroom for professional plug-in processing
- Dedicated analog and digital 2-track connections, intercom and talkback facilities, and stereo outputs for near-field speaker monitoring
- Includes ECx Ethernet Card for remote control of the system using a wired or wireless laptop or computer
- Includes VENUEPack and plug-in bundle, which offers some of the most coveted processing in the industry
- Supports optional cards for additional analog and digital I/O, Pro Tools integration, Stage Rack expansion, and more
- Comes standard with dual redundant, field-replaceable power supplies

Complete Computer Control

FOH Rack features an embedded computer platform running VENUE software as the central point of control for the entire D-Show or Profile System. Used in conjunction with the DSP Mix Engine Cards, you gain unparalleled headroom for onboard processing, with direct professional plug-in compatibility.

Onboard Local I/O

FOH Rack provides a host of dedicated local I/O through its FOH I/O card, which offers local monitor outputs, analog and digital (AES or S/PDIF) 2-track input and outputs, MIDI I/O, eight TRS insert send and return jacks, and a COM input that can handle either microphone or intercom inputs. This local I/O is offered standard, is expandable, and comes at no expense to mic/line input or output counts.

One Software Platform—Total File Portability

All Avid live sound systems operate under one common platform—VENUE software, the industry's easiest yet most comprehensive control software. VENUE software sets new standards in operational efficiency and workflow, giving you instant access to and full control over any function of the system. Just a simple button push on the control surface or click from the screen gives you access to inputs, outputs, show files, snapshots, patchbays, plug-ins, and more. And because all Avid live systems share this same software platform, you can create and load show files for use on any Avid live system; no need to learn new software or build new show files if you switch consoles or re-scale your system.

Creative Processing with Bundled Plug-ins

FOH Rack comes with a powerful bundle of plug-ins—VENUEPack—which includes some of the best and most highly coveted professional processing in the industry from Avid, and other top audio developers. In fact, the bundle is worth thousands of dollars on its own!

For more information visit www.avid.com/FOHrack

FOH Rack—Processing and Local I/O Live Sound Component

FOH Rack Options

FOH Rack has a number of options available to meet your interface and processing needs.

DSP Mix Engine Card—Run more plug-ins by adding more processing power. FOH Rack comes standard with three DSP Mix Engine Cards, but you can install up to five cards for increased mixer and plug-in processing.

MADI Option Card—Connect your Avid live system to MADI devices (including routers, other digital mixing consoles, and mobile recording setups) and send/receive up to 64 channels of audio.

IOx Card—If you need extra I/O to connect additional outboard gear, the IOx Card provides an additional eight channels of analog I/O and eight channels of AES/EBU digital I/O.

Snake Card—Enables FOH Rack to connect to a second Stage Rack for productions requiring more than 48 inputs from the stage.

FWx Option Card—Record live shows and do Virtual Soundchecks using Pro Tools®. This option enables you to record and play back up to 32 channels of high-quality audio—no Pro Tools hardware required.

HDx Option Card—Record live shows and do Virtual Soundchecks using Pro Tools|HD. This option enables you to record and play back up to 64 channels of high-quality audio with a single HDx card installed, or up to 128 channels with two HDx cards installed—no Pro Tools|HD audio interface required.



FOH Rack back panel

FOH Rack Specifications (at maximum configuration)

Dimensions (H x W x D)	17.5 x 17.0 x 15.1 inches (445 x 432 x 384 mm)
Rack Spaces	10 U
Weight	74 lbs (33.7 kg)
Power Requirements	90–260 VAC, 50–60 Hz, 220 W
Snake 1 In/Out Connectors (to Stage Rack)	BNC female (2)
Snake 2 In/Out Connectors (to Stage Rack)	BNC female (2)
Word Clock In/Out Connectors	BNC female (2)
USB Ports (2)	USB 2.0
FOH Link Connector (to D-Show Main Unit or Profile console)	MIL connector
Max FOH Link Cable Length	11 ft (3.35 m)

FOH Rack I/O (standard configuration)

Com Input	
Connector	Neutrik combi XLR/TRS
Phantom Power	+15V @ 6mA (switchable on FOH Rack back panel)
Gain	-2 dBu to -32 dBu, 6 steps
Input Impedance	20K Ohms
Analog Inputs 1–8; 2-Track Analog Inputs	
Connector	1/4-inch TRS
Maximum Input Level	+24 dBu
Input Impedance	10K Ohms
Analog Outputs 1–8; 2-Track Analog Outputs; Monitor L/R	
Connector	1/4-inch TRS
Maximum Output Level	+24 dBu
Output Impedance	50 Ohms
Digital Inputs (switchable between AES and S/PDIF)	
2-Track AES	
Connector	XLR3-F
Format	AES/EBU
Word Length	24-bit
Sample Rate	48 kHz
Sample Rate Conversion	3:1 ratio
2-Track S/PDIF	
Connector	RCA coaxial
Format	S/PDIF (IEC-60958)
Word Length	24-bit
Sample Rate	48 kHz
Sample Rate Conversion	3:1 ratio
Digital Outputs (switchable between AES and S/PDIF)	
2-Track AES	
Connector	XLR3-M
Format	AES/EBU
Word Length	24-bit
Sample Rate	48 kHz
Sample Rate Conversion	Yes
Dithering	None
Channel Status Info	Pro, Audio 48K, No Emphasis
2-Track S/PDIF	
Connector	RCA coaxial
Format	S/PDIF (IEC-60958)
Word Length	24-bit
Sample Rate	48 kHz
Sample Rate Conversion	Yes
Dithering	None
Channel Status Info	Consumer, Audio, 48K, Non-copy, 2-Channel, General Category, Level 2 Clock

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For more information visit www.avid.com/FOHrack