

FOH Rack

Local audio I/O and DSP processing

Features

- Durable 10-space steel rack houses local I/O, control computer (Windows XPe platform), DSP processing cards, and interface options
- Includes D-Show 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 using D-Show or D-Show Profile, with ample headroom for TDM 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 Option Card for remote control of the system via a wired or wireless laptop or computer
- Includes VENUEPack and VENUEPack Pro 3.0 plug-in bundles, which offer 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

Digidesign® VENUE is a state-of-the-art live sound production environment comprised of high-quality components that work together as one system to deliver studio-grade sound and processing, powerful performance, unprecedented reliability, and complete ease of use, with maximum flexibility. FOH Rack serves as the central processing component of a VENUE system. Positioned near the control surface, FOH Rack houses an embedded control computer and DSP Mix Engine Cards, with room for additional interface option cards, and provides connectivity for local inserts and outboard devices. FOH Rack is compatible with D-Show® and D-Show Profile™ control surfaces, works in conjunction with up to two Stage Racks for remote stage connections, employs D-Show® software as its graphical user interface, and enables full Pro Tools® integration with optional interface cards.

Complete Computer Control

FOH Rack features an embedded Windows XPe computer platform running D-Show software as the central point of control for the entire VENUE system. Used in conjunction with Digidesign's DSP Mix Engine Cards, the computer allows FOH Rack to provide unparalleled headroom for onboard processing with full TDM plug-in compatibility.

Onboard Local I/O

FOH Rack provides a host of dedicated local I/O via the 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 VENUE components operate under one common software platform—D-Show software, the industry's easiest yet most comprehensive control software. D-Show 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 VENUE systems share this same software platform, you can create and load show files for use on any VENUE control surface; no need to learn new software or build new show files if you switch VENUE control surfaces or re-scale your system.

For more information, visit your local VENUE dealer or www.digidesign.com/venue.



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FOH Rack Options

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

DSP Mix Engine Card—This 9-chip DSP card provides additional processing power to FOH Rack. The FOH Rack base configuration comes with three DSP Mix Engine Cards, but you can install up to five cards for increased mixer and plug-in processing.

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—Provides direct Pro Tools LE® integration for up to 18 channels of high-quality 24-bit/48 kHz recording and playback—no Pro Tools LE hardware required. The card connects your VENUE system, via FireWire, to a compatible Windows- or Mac-based computer running Pro Tools LE software, allowing you to record and archive live performances, using your VENUE system as the audio interface, and play back pre-recorded Pro Tools tracks with the live inputs.

HDx Option Card—Provides direct Pro Tools|HD® integration for up to 64 channels of 24-bit/48 kHz recording and playback with a single HDx card installed, or up to 128 channels with two HDx cards installed—no Pro Tools|HD audio interface required. The card connects your VENUE system, via DigiLink™, to a compatible Windows- or Mac-based computer housing Pro Tools|HD Core/Accel cards and Pro Tools HD software, allowing you to record and archive live performances, using your VENUE system as the audio interface, and play back pre-recorded Pro Tools tracks with the live inputs.



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 D-Show Profile)	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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