

# Virtuoso™ Acoustical Shell

- Virtual Acoustics Environment Virtual Shell technology designed for the performance stage that allows musicians to hear themselves more effectively.
- System comes with eight pre-set environments for the stage with varying degrees of support and reverberance.
- Provides a stage environment with similar support to a full stage acoustical shell with the addition of reverberance if desired.
- System includes record/playback feature with immediate feedback.
- Ability to upload accompaniments and download recording sessions.
- Complete installation, including all electrical components, system tuning, and wiring/mounting of all speakers and microphones. Also includes installation of acoustical absorption of the stage house (if needed).
- System includes lockable, front and rear access, wall-mounted component rack for all system components, including VAE digital signal processor, power sequencer, amplifiers, and ventilation fan.
- Environmental attributes and LEED compliance for this product can be found at [www.wengercorp.com/GREEN](http://www.wengercorp.com/GREEN) or by contacting your Wenger representative.
- Five-year warranty.

## System Components

### Harman Amplifiers

- Channels: 8
- Sensitivity: 1.4V (26db gain)
- Rated power output: 125W per channel into 8/4 ohms
- Signal to noise ratio:  
(below rated power 20Hz to 20kHz, A-weighted): 110 db
- Dimensions: 19"w x 5.25"h x 16.25"d (483 x 133 x 413 mm)
- Weight: 36 lbs (16.3 kg)

### Harman Speakers

- Frequency response: (-10db) half-space wall: 45 – 20kHz
- Sensitivity: 92dB SPL, 1W, 1m
- Continuous program power capacity: 175 watts
- Wall mounting brackets included
- Coverage: 100 x 100 degrees
- Dimensions: 11.1"w x 15.2"h x 8.6"d (282 x 386 x 219 mm)
- Weight: 15 lbs (6.8 kg)

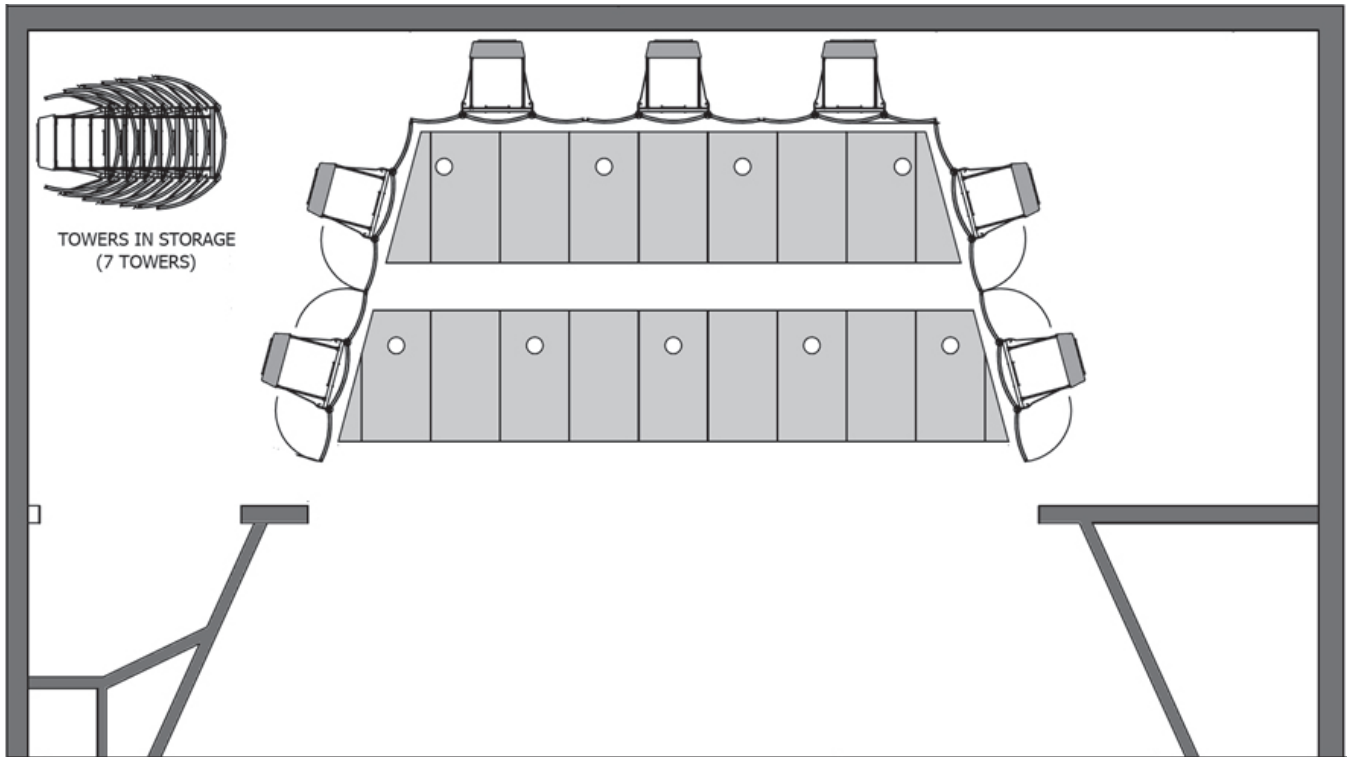
### Harman Microphone

- Transducer type: pre-polarized condenser microphone
- Frequency response: 20 to 20,000 Hz
- Signal-to-noise ratio: A-weighted: 77db
- Maximum sound pressure level for 1.0% THD: 132db SPL

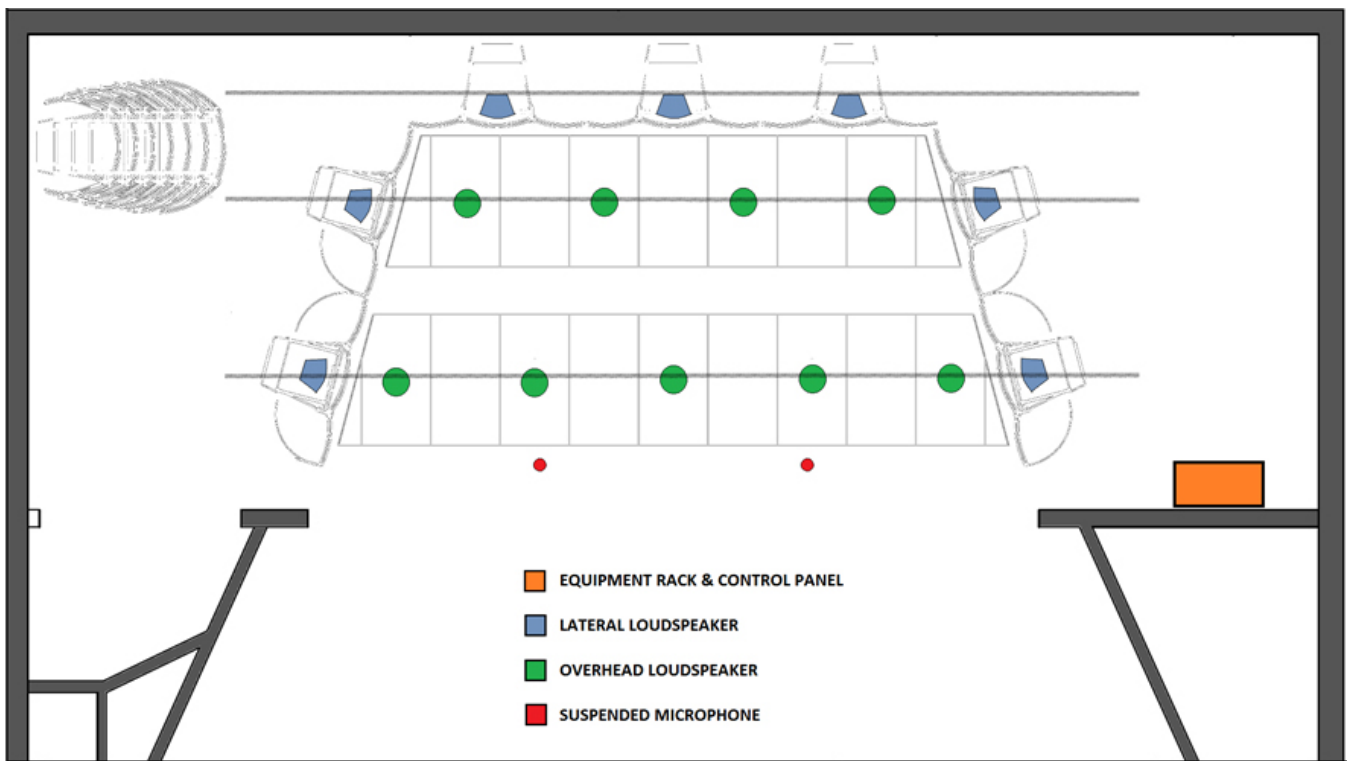
### Wenger VAE Processor

- Built-in pre-amplification and equalization
- Microphone inputs: 2 Female XLR
- Input Impedance: 3000 Ohms Balanced
- Phantom Power: +24 volt
- Frequency Response: 20 to 20kHz within 1 db
- THD+N: 0.007%
- Sample Rate: 44.1 kHz
- Dynamic Range: A/D > 100dB, 24 Bit resolution  
D/A > 100dB, 24 Bit resolution
- Record Output: 1/8" TRS jack
- Power Outputs: Four 1/4" TRS  
and two 4-pin EURO (5.08 mm pitch)
- Output Impedance: 4/8/16 ohms
- Remote control connector: 10-pin Molex type 42404
- USB type B socket: For downloading recorded files
- Compact Flash socket: For storing recorded sessions
- Internal 15 Band 2/3 octave Equalizer
- Internal pink noise generator and real time analyzer
- Power Requirements: 100-120 volts or  
220-240 volts, 50/60 Hz, 160 Watts typical
- Operating Temperature: 0 to 40 degrees C
- Humidity: 95% max non-condensing
- Dimensions: 17.4"w x 3.5"h x 11.5"d (442 x 89 x 292 mm)  
Rack mount face is 19.0" wide (483 mm)
- Weight: 17.5 lbs (7.9 kg)





Traditional Shell Configuration



Virtual Shell Configuration  
(replaces traditional shell)



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