

# VAE® Rehearsal System

- Virtual Acoustics Environment technology designed for music rehearsal rooms that allow musicians to hear themselves in a variety of performance environments
- System comes with eight preset environments: baroque room, medium recital hall, large recital hall, small auditorium, medium auditorium, large auditorium, cathedral and sports arena
- Includes one customizable setting of specific performance space determined by customer
- Creates a space where performers can rehearse in the acoustics of performance areas when the actual performance space is not available
- A practical acoustic lab where musicians can study the relationship between their music and the spaces in which they perform
- System includes record/playback feature with immediate feedback, which provides effective teaching tool to train students in the relationship between the acoustical environment and playing/singing technique
- Stimulates creativity and encourages practice by relieving the tedium of playing/singing in a "dry" space
- Ability to upload accompaniments and download recording session
- Complete turn-key installation, including all electrical components, system tuning, and wiring/mounting of all speakers and microphones. Also includes installation of acoustical absorber panels and NRC rated .95 acoustical ceiling tiles if needed
- System includes lockable, front and rear access, portable or wall-mounted component rack for all system components, including VAE digital signal processor, power sequencer, amplifiers, and ventilation fan
- 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 lb (16.3 kg)

### Harman In-Wall Speakers

- Frequency response: (-10db) half-space wall: 30 – 20kHz
- Sensitivity: 90db SPL, 1W, 1m
- Continuous program power capacity: 120 watts
- Designed for mounting in stud walls, optional stud wall frame available
- Dimensions: 10.1"w x 13.1"h x 4.3"d (257 x 333 x 109 mm)
- Weight: 4.5 lb (2.0 kg)

### Harman Wall-Mount Speakers

- Frequency response: (-10db) half-space wall: 45 Hz – 16 kHz
- Sensitivity: 91 db, 1W, 1m
- Continuous program power capacity: 240 watts
- Wall mounting brackets included
- Ball-mount adjustment
- Dimensions: 11.1"w x 15.2"h x 8.6"d (282 x 386 x 219 mm)
- Weight: 13.5 lb (6.1 kg)

### Harman Ceiling Speakers

- Frequency response: (-10db) half-space wall: 70 - 20kHz
- Sensitivity: 89db SPL, 1W, 1m
- Continuous program power capacity: 150 watts
- Grille, back can, and tile rails included
- 10" diameter (254 mm)
- Weight: 12 lb (5.4 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



## System Components (continued)

### 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 lb (7.9 kg)

### Wenger VAE Control Panel

- Wired, 18 button
- 50' maximum cord for connection to VAE Processor
- Digital, backlit display
- Option tripod stand available
- Dimensions: 5.5"w x 8.6"h x 7.25"d (140 x 218 x 184 mm)
- Weight: 2.0 lb (0.9 kg)



**Wenger**

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