

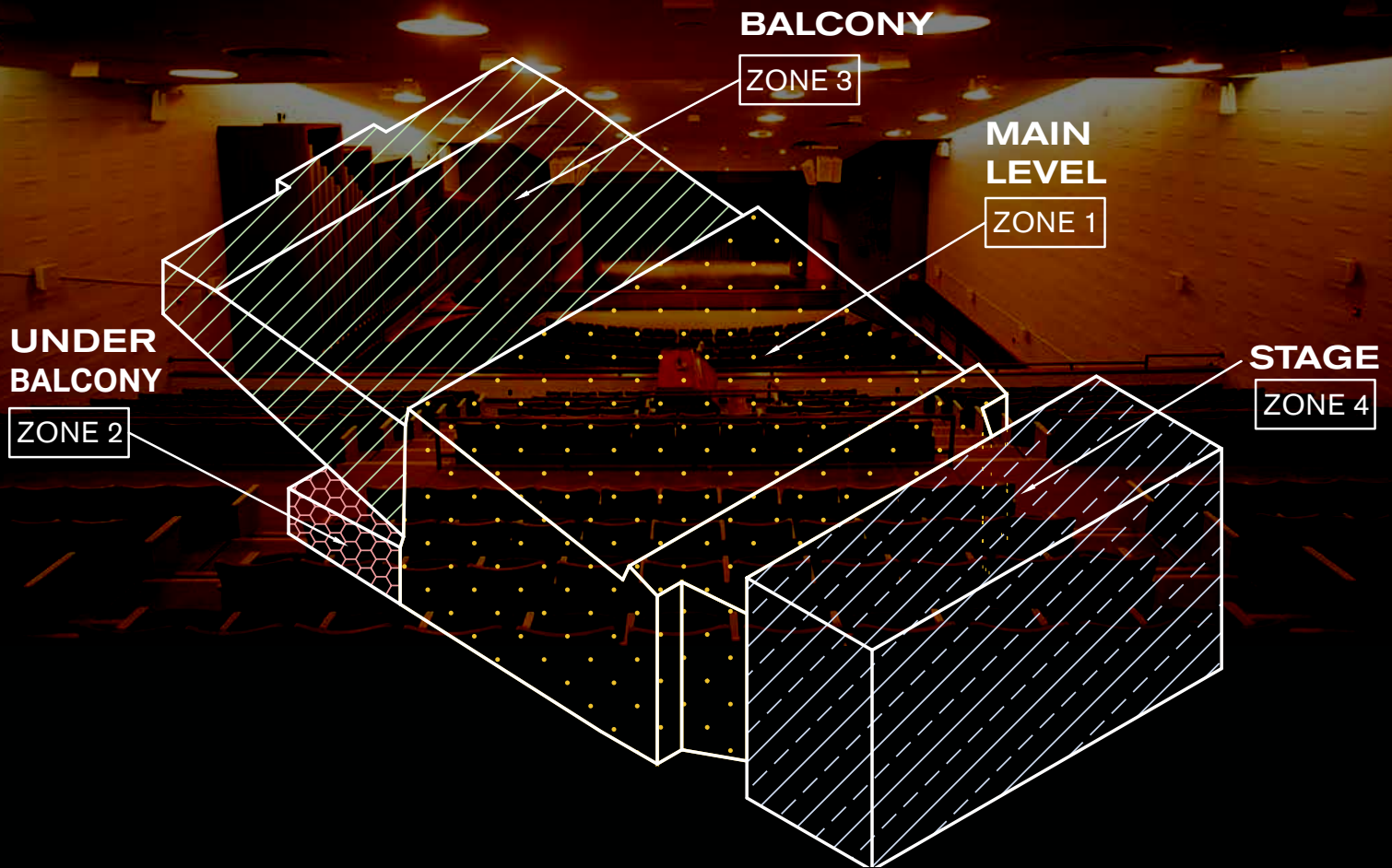
# TRANSCEND® Active Acoustic System



One Space. Any Performance. Simply A Sound Investment.™

Wenger has partnered with the legendary audio company HARMAN to create a new active acoustic system called Transcend. The result is an efficient, reliable, and affordable solution for acoustic enhancement. By using “non-regenerative” virtual acoustics, Transcend can enhance the acoustic environment in many performance spaces and improve the flexibility of multi-use venues.

# Improve Sound for Every Seat in the House



## Transcend® Listening Zones

Traditional acoustical treatments are still an extremely important part of creating an ideal listening experience. However, traditional acoustical treatment doesn't provide the flexibility required to meet the needs of multi-purpose venues. Transcend uses a system of microphones, speakers and digital signal processing, making your space suitable for different types of events ranging from the spoken word to a symphony orchestra.

Each Transcend digital signal processor provides up to 4 zones of acoustic processing as shown in the drawing above. The system can be expanded by adding additional processors.

Zone	Overhead Speakers	Wall Speakers	Subs
1	16	10	2
2	12	10	
3	14	14	2
4	8	8	
Total	50	42	4

Speaker count varies with venue.

# Unprecedented Control Over Your Venue's Acoustics

With Transcend, the parameters within the system are tailored to optimize the acoustic environments for each preset. Wenger also offers a range of control options, from a simple push-button switch to touch-screen control.

## Audio Architect

software allows the system to be monitored and adjusted from any laptop.



▲ Touch Screen Control



▲ Push Button Control



▲ Audio Architect

## Tuning Parameters Offer Flexible Acoustics

Transcend offers tuning options that gives the flexibility to maximize the acoustic enhancement of a venue for any type of performance.

## Input Equalization

Utilizes a specialized Harman Automated Test System (HATS) to assist in setting the room input transfer function to the processor (speakers to room to microphones).

## Input Mixer

Allows any of the input microphones to be routed to any or all of the 4 inputs for each of the 4 zones.

## Auto Balance

Provides balancing for the input signals to Lexicon active acoustics processing.

## Lexicon Active Acoustics Processing

Each zone contains a 4-channel in, 8-channel out Lexicon digital signal processing system for creating or enhancing an acoustic environment.

## Speech Detection Settings

Used to automatically and gradually reduce the system reverberance when a speech signal is detected over a period of time to enhance the clarity.

## Speaker Equalizer Settings

Each zone contains an 8-channel, 8-band parametric equalizer typically used for speaker tuning.

## Time Alignment Delay Settings

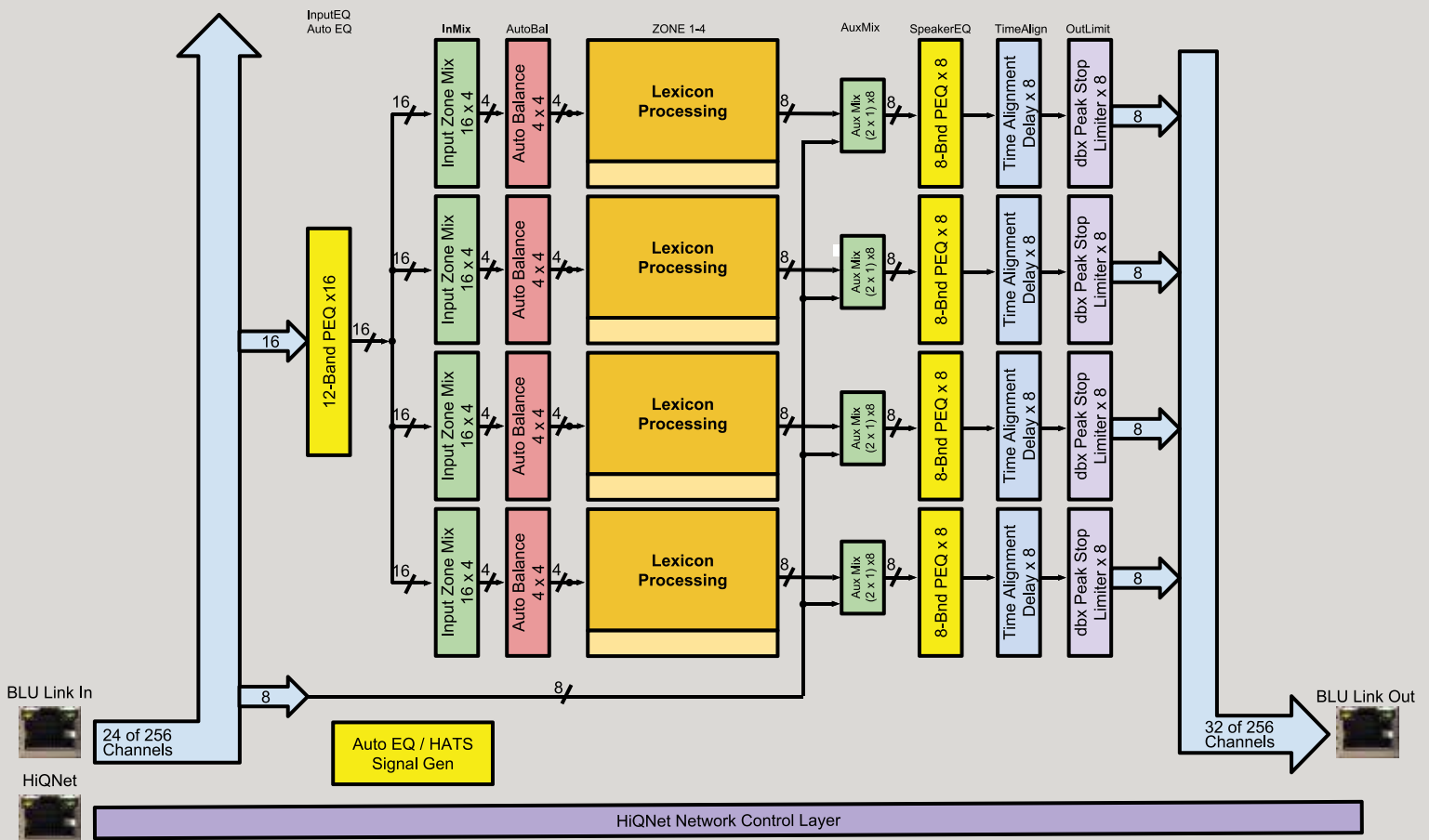
Each zone contains an 8-channel time delay typically used for speaker time alignment.

## Output Limiter Settings

Each zone contains an 8-channel limiter to prevent system distortion during high-signal transients.

# Designed by Wenger and HARMAN

Transcend balances complex digital signal processing with a simple design that offers venues better performance, value and reliability. The heart of the system is HARMAN's Lexicon processor, which can tailor reverberation and acoustics to create a variety of environments. It's all connected with HARMAN's HiQnet communications protocol, Audio Architect software, and Blu-Link digital audio bus. The Transcend block diagram below gives you a detailed look at how the system achieves all of this within a single processing unit.



# The Wenger Advantage

## The Combined Power of Wenger & HARMAN

Transcend's digital signal processor incorporates HARMAN's legendary Lexicon technology which creates a wide variety of acoustical environments with far fewer microphones. This is important for a number of reasons:

- Fewer inputs makes Transcend a more stable, simple and reliable system
- Since there are fewer microphones to mount and wire, installations are easier.
- Harman speakers are powered by amplifiers, not individually powered, meaning lower installation costs

In a typical 1,200-seat auditorium with one balcony, competing systems need 30 or more mics; Transcend only needs two.

## Automatic Voice Detection

The system will automatically adapt to provide less reverberance for spoken word, and more reverberant energy for musical performance.



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other systems need  
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# Component Specifications

*(Minimum requirement; substitutions acceptable upon review)*

## Active Acoustic Processor: **Wenger Corporation**

Transcend Active Acoustic System

**System:** 48kHz, 32-bit floating point

**Audio Network:** BLU Link digital audio bus

**Digital Inputs/Outputs:** 16 Microphone & 8 Auxiliary Inputs, 32 Outputs

**Maximum Number of Channels:** 256 at 48kHz

## DSP / Microphone Preamp / Networked Audio: **BSS Audio**

Soundweb London Chassis

## Microphones: **Sennheiser**

MKH Series (Cardioid)

## Amplifiers: **Crown Audio**

DriveCore Install Network Series

## Speakers: **JBL Professional**

Control Contractor Series (Surface Mounted Speakers)

Control 40 Series (Ceiling Speakers)

## Network Switch: **Ubiquiti Networks**

EdgeSwitch Series

## Control Systems: **BSS Audio**

Soundweb Conrio Series (AMX, Crestron and others supported)

## Electrical Systems:

Lyntec MSLC Series (Power Panels)

GE Industrial Dry Type Transformers (Noise Isolation - Guard II)

Electrical systems installed by others

## Professional Installation Available

From backstage to the back row, Wenger and J.R. Clancy products are designed for flawless performance. With exceptional design assistance, project management and after-sale service, you'll find our experts are easy to work with and passionate about your success. Visit our blog: [performance.wengercorp.com/blog](http://performance.wengercorp.com/blog) to learn more.

[info@wengercorp.com](mailto:info@wengercorp.com) • [wengercorp.com/performance](http://wengercorp.com/performance)



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**WENGER CORPORATION** Phone 800.4WENGER (493-6437) Worldwide +1.507.455.4100 | Parts & Service 800.887.7145 | Canada Office 800.268.0148 | [wengercorp.com](http://wengercorp.com)  
555 Park Drive, PO Box 448 | Owatonna | MN 55060-0448

**JR CLANCY** Phone 800.836.1885 Worldwide +1.315.451.3440 | [jrclancy.com](http://jrclancy.com) | 7041 Interstate Island Road | Syracuse | NY 13209-9713

**GEARBOSS** Phone 800.493.6437 | email [gearboss@wengercorp.com](mailto:gearboss@wengercorp.com) | [gearboss.com](http://gearboss.com) | 555 Park Drive, PO Box 448 | Owatonna | MN 55060-0448