

# Transcend® Active Acoustic System

- A system using Transcend active acoustic technology designed for the acoustical enhancement of sound for performance venues.
- System includes a series of speakers, microphones, amplifiers, digital signal processing, and a digital audio bus to create different levels of reverberation in performance spaces.
- Transcend digital signal processor provides up to four zones of control and that can be expanded by adding additional processors.
- Each zone contains 4-channel in, 8-channel out Lexicon active acoustic digital signal processing.
- System includes HiQnet communication protocol through Audio Architect for setup, adjustment, and remote monitoring of the system.
- Processor includes speech/music detection setting which automatically and gradually reduces the system reverberance when a speech signal is detected over a period of time and increases reverberance when music is detected.
- Complete turnkey installation can be provided, including all electrical components, system tuning, wiring/mounting of all speakers, microphones, Transcend, other components and equipment rack. Includes system tuning by Wenger.
- System requires isolated power transformer and motorized breaker panel, specified by Wenger, supplied by others.
- Three-year warranty.



## System Components

### Harman Crown Amplifiers

- Networked amplification (Audio Architect)
  - DCi 8|300N
    - Channels: 8
    - Sensitivity: 2.0V (34 dB gain)
    - Rated Power Output: 600W per channel into 8/4 ohms
    - Signal to noise ratio: (below rated power 20 Hz to 20 kHz, A-weighted): 108 dB
    - Dimensions: 19" x 3-1/2" x 14-1/4" (483 x 89 x 362 mm)
    - Weight: 23.5 lbs (10.66 kg)
  - DCi 4|600N (Sub Woofer)
    - Channels: 4
    - Sensitivity: 1.0V (34 dB gain)
    - Rated Power Output: 300W per channel into 8/4 ohms
    - Signal to noise ratio: (below rated power 20 Hz to 20 kHz, A-weighted): 108 dB
    - Dimensions: 19" x 3-1/2" x 14-1/4" (483 x 89 x 362 mm)
    - Weight: 20.1 lbs (9.1 kg)
  - Other available options: DCi 8|600N, DCi 2|300N, DCi 2|600N, DCi 4|300N, DCi 2|1250N, DCi 4|1250N

### Harman JBL Speakers

- Wall Mounted Speakers:
  - Control 28
    - Frequency Response: (-10 dB)  
half space wall: 60 Hz to 16 kHz
    - Continuous program power capacity: 175 watts
    - Sensitivity: 92 dB SPL, 1W, 1m
    - Wall mounting brackets included
    - Ball-mount adjustment
    - Dimensions: 11"w x 15"h x 8-1/2"d (279 x 381 x 216 mm)
    - Weight: 12 lbs (5.5 kg)
  - Control 128 (In-wall)
    - Frequency Response: (-10 dB)  
half space wall: 30 Hz to 20 kHz
    - Continuous program power capacity: 120 watts
    - Sensitivity: 90 dB SPL, 1W, 1m
    - 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), 4" (102 mm) front of wall to back of speaker
    - Weight: 5.5 lbs (2.6 kg)
- Ceiling Mounted Speakers:
  - Control 26
    - Frequency Response: (-10 dB)  
half space wall: 75 Hz to 20 kHz
    - Continuous program power capacity: 150 watts
    - Sensitivity: 89 dB SPL, 1W, 1m
    - Grill, backcan and tile rails included
    - Dimensions: 10" diameter x 8.3" high (254 x 211 mm) 8-3/4" (222 mm) cut out size
    - Weight: 7.5 lbs (3.4 kg)
  - Other speakers available: Control 47C, Control 47LP, Control 47HC

- Sub Woofer Speakers:
  - Surface Mounted Control SB210
    - Frequency Response: (-10 dB)  
half space wall: 42 Hz to 200 Hz
    - Continuous program power capacity: 800 watts
    - Sensitivity: 95 dB SPL, 1W, 1m
    - Dimensions: 14" x 23.3" x 22.5" (356 x 592 x 572 mm)
    - Weight: 38 lbs (17.1 kg)
  - Other sub woofers available: Ceiling mounted Control 19CS, Control 312CS

### Microphones

- Sennheiser MKHC8040 + MZX 8000
  - Cardioid polar pattern
  - Frequency response: 35 to 20,000 Hz  
Sensitivity: at 1000 Hz – 20 mV/Pa (-34 dB)
  - Equivalent Noise Ratio Level: 13 dB-A, SPL for 1%
  - Length: 1-5/8" (41 mm), with XLR module – 3" (76 mm), 3/4" (19 mm) dia.
- Other microphones available: Schoeps CCM4 and MK4, Neumann KM100

### Harman BSS Microphone Preamplifier and A/D Converter

- BSS London BLU – BIB
  - Inputs: 8 analog
  - Dimensions: 1.65"h x 8.63"w x 7.75"d  
(42 x 219 x 197 mm)
  - Weight: 2.96 lbs (1.34 kg)

### Harman BSS Digital Signal Processor

- BSS BLU 50
  - Inputs: 4 analog with 48V phantom power
  - Outputs: BLUlink digital audio
  - Dimensions: 1.65"h x 8.63"w x 7.75"d  
(41 x 219 x 197 mm)
  - Weight: 2.82 lbs (1.28 kg)
- Other processors available: BLU 160

### Wenger Transcend Active Acoustic Processor

- System: 48 kHz, 32-bit floating point
- Digital Inputs: 16 microphone, 8 auxiliary
- Digital Outputs: 32 channels of BLU link digital audio
- Maximum number of channels: 256 at 48 kHz
- Latency: 6.3 msec.
- Communication protocol: Harman HiQnet
- Communication Applications: Audio Architect
- Up to four zones of processing
- Dimensions: 3.5"h x 19"w x 8.25"d (89 x 483 x 210 mm)
- Weight: 11.5 lbs. (5.21 kg)

### Harman Control Panels

- AMX Touch Screen Control:
  - 7" diagonal touch screen, wall mounted with custom programmed presets for Transcend System
- BSS Contrio EC-8B
  - Wall mounted ethernet wall controller, HiQnet compatible, 8 programmable buttons
- Also compatible with Crestron control panels



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