Modern theatres and performing arts venues have a demanding list of requirements. The audiovisual systems installed must be capable of meeting these requirements and remain relevant as technology and the productions housed within the venue continue to grow.

Some of these requirements include:
- A sound system capable of a variety of uses including lectures, live theatrical and live musical performances
- A lighting system with moving head and LED technology with adaptable programming, low noise and reduced power consumption
- A video system to distribute content and manage a multitude of sources including projection of show content, video camera feed distribution, digital signage and video recording with playback options
- A control system with multiple access point to tie it all together including house lights, paging and background music

HARMAN can provide a scalable solution for any size theatre or performing arts venue, from a small black box theatre to a multi-venue performing arts center.

In this HARMAN solution for a small- to mid-sized theatre (500 seats) all of the above criteria are met. Our audio system starts with a Soundcraft® Si Impact 40-channel digital mixing console with a Mini Stagebox 32 providing a digital interconnect from stage to front of house. BSS® Soundweb London is the backbone of the audio system. Here, audio feeds are processed, routed and distributed across the BLU link™ network, maintaining a digital connection from console to processor to amplifier. Optional devices can also be chosen to bridge between other digital audio protocols including Audinate® Dante™ and Audio Video Bridging (AVB). In addition to distribution of performance content, utilities, such as paging microphones, background music and lobby speakers can be simultaneously managed, all configured easily in HARMAN’s HiQnet Audio Architect™ software application.

At the back end of the audio system is a JBL® VRX constant curvature line array system supplemented by VRX subwoofers, stage monitors and AE Compact fill speakers. All loudspeakers are powered by Crown® DCi Network amplifiers. An assortment of AKG® products, including WMS40 wireless, MicroLite lavalier and headworn ultra-miniature microphones, stage vocal and instrument microphones, and podium microphones provide input for anything that comes to the stage.
The Martin® lighting system boasts industry-leading LED technology with the RUSH MH 1 Profile Plus and MH 6 Wash. Both feature moving head functionality, strobe effects and quiet operation for easy integration into any stage production. The compact Martin M1 controller sets a new standard as the most powerful and affordable full-featured lighting console available today.

Beyond the stage, a performance venue must have a video infrastructure and a means of executing everyday tasks such as paging, digital signage, chimes, prerecorded announcements, etc. Enter AMX. Using SVSI video encoders and decoders, virtually any number of video input devices (cameras, playback, digital signage) can be managed and distributed to any number of output devices (LCD’s, projectors, recorders) over a dedicated Ethernet network. With the integration of one or multiple wall mount or tabletop touch panels, all of the systems utilities can be accessed in one place.
APPLICATION GUIDE: THEATRE & PERFORMING ARTS

THEATRE & PERFORMING ARTS

AKG WMS470 D5 | AKG D5 | AKG CGN331 E

Soundcraft Stagebox

Soundcraft Mixer

BSS Soundweb London BLU-806

Crown DCi Networked Audio Amplifiers

JBL VRX932LA-1 | JBL VRX918S | JBL AC16 | JBL VRX915M

JBL VRX92LA-1

APPLICATION GUIDE: THEATRE & PERFORMING ARTS
HOSPITALITY SOLUTIONS: CREATING THE ENVIRONMENT

- Video Camera
- AMX Digital Signage
- Video Playback
- AMX SVSI Network Video Recorder
- AMX Network Controller
- AMX SVSI Encoders
- Network Switch
- AMX Touch Panel
- AMX SVSI Decoder
- AMX SVSI Decoder
- Video Monitor
- Video Projector
- AMX SVSI Controller
- Video Camera
- AMX SVSI Encoder
- Martin Ether2DMX8
- Martin M1 Controller
- Martin JEM Hazer Pro
- Martin RUSH MH1 Series
- Martin RUSH MH6 Series

Connections:
- DMX
- HiQnet
- Analog
- MADI
- HDMI
- Speaker Level
- SVSI
- ICSP/AMX
- BLU Link
- AXLink
**APPLICATION GUIDE: THEATRE & PERFORMING ARTS**

**SYSTEM COMPONENTS**

**Microphones**

- **AKG**
  - DST99 S
    - Paging Microphone
  - Drum Set Premium Reference Drum Microphone Set
  - D5
    - Vocal Microphone
  - C414XLS
    - Condenser Microphone
  - CI1000
    - Condenser Microphone
  - WMS470 D5
    - Wireless Rx / Tx
  - WMS470
    - Presenter Wireless Rx / Tx

- **AKG**
  - CGN331 E
    - Gooseneck Microphone
  - MicroLite HC82 MD
    - Headworn Microphone

**Audio Signal Processing**

- **BSS**
  - Soundweb London BLU-806
    - Signal Processor

**Audio Amplifiers**

- **Crown**
  - DCI 4/1250N Power Amplifier
  - DCI 2/2400N Power Amplifier
HOSPITALITY SOLUTIONS: CREATING THE ENVIRONMENT

Control & Automation

- NMX-ENC-N1122 HD Video Encoder
- NMX-DEC-N1222 HD Video Decoder
- NMX-ENC-N3132 H.264 Encoder
- NMX-NVR-N6123 Network Video Recorder
- SC-N8001 N-Series Controller
- MXT-1001 Tabletop Touch Panel
- NX-3200 Integrated Controller
- AXB-DMX512 Interface

Control & Automation

- NMX-ENET-300-28-POE Ethernet Switch
- IS-XPT-2100 Digital Signage Player

Audio Mixing Consoles

- Soundcraft Si Impact Mixing Console
- Mini Stagebox 16 & 32

Audio Mixing Consoles

- Studer Vista V
About HARMAN Professional Solutions

HARMAN Professional Solutions is the world’s largest professional audio, video, lighting, and control products and systems company. Our brands comprise AKG Acoustics®, AMX®, BSS Audio®, Crown International®, dbx Professional®, DigiTech®, JBL Professional®, Lexicon Pro®, Martin®, Soundcraft® and Studer®. These best-in-class products are designed, manufactured and delivered to a variety of customers in markets including tour, cinema and retail as well as corporate, government, education, large venue and hospitality. For scalable, high-impact communication and entertainment systems, HARMAN Professional Solutions is your single point of contact. www.harmanpro.com

Contact us at theatre@harman.com

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