



**EDUCATION**

# INSTALL SOLUTIONS 2025

V 5.08.25

**Trusted Brands. Connected Solutions.**

**AKG**

**AMX**



**dbx**

**FLUX::**



**lexicon**

**Martin**

**Soundcraft**



AKG

AMX



dbx

FLUX::



lexicon

Martin

Soundcraft

# HARMAN PROFESSIONAL SOLUTIONS BUILD A BRIGHTER FUTURE

## Trusted Brands. Connected Solutions.

In the dynamic and hyper-evolving realm of immersive experiences, HARMAN stands as a visionary architect, crafting the future through audio, video, control, and lighting. Our ten iconic brands, each a luminary in its own right, interconnect into an ecosystem of excellence, where every innovation contributes to the whole. By harnessing the power of cutting-edge technologies, we do not simply build solutions; we lay the cornerstones for a brighter future.

From open-architecture platforms and leading-edge control solutions, to legendary audio hardware and world-class lighting, HARMAN relentlessly pursues technological excellence, offering unparalleled solutions across a diverse range of industries. Every install benefits

from specialized engineering innovation, courtesy of our stable of industry-leading brands, each with its own legacy of pioneering spirit. That legacy began in the early days of commercial cinema when JBL was born and continued into the home-grown computing revolution that included BSS Audio and AMX and into the developing world of immersive audio led by FLUX::

Each brand in our portfolio sets the highest industry standard, and in turn, HARMAN shapes the way sound and light are experienced around the world. From live performance audio to critical enterprise infrastructures, HARMAN turns imagination into reality with unparalleled clarity, scale, and impact. We believe in a future redefined by visionaries and creatives, empowered by HARMAN Professional Solutions.

**HARMAN** has nearly **80 years** of experience and expertise, and **10 trusted brands**, leading the way in cutting-edge technologies that elevate every install.



## DID YOU KNOW ▶

Every JBL loudspeaker model is put through an industry-leading 100-hour stress test of all components - that's nearly five days of pushing speakers to their absolute max and beyond! We're committed to ensuring our speakers perform flawlessly in real-world scenarios.

**Our world-renowned solutions, trusted by professionals across industries, redefine what's possible in audio, video, lighting, and beyond.** With an unwavering commitment to innovation, HARMAN empowers consultants, integrators, and designers to bring their most ambitious visions to life. Experience the clarity, impact, and unparalleled quality that HARMAN delivers.

## HARMAN FACTS

- 1 Dr. Sidney Harman and Bernard Kardon founded the predecessor to HARMAN International, Harman Kardon, in 1953. Both Harman and Kardon were engineers for the Bogen Company, a manufacturer of public address systems.
- 2 In the 1970s, Dr. Sidney Harman sold his audio conglomerate to become Deputy Secretary of Commerce under U.S. President Jimmy Carter. He later bought back his company and relaunched it as HARMAN International.
- 3 In 1983, George Lucas and Lucasfilm selected JBL to develop the first commercial THX®-licensed cinema speaker system. Nine years later, JBL Synthesis released the first THX home theater system.
- 4 HARMAN is a 3-time GRAMMY Award Winner with Technical GRAMMY Awards for JBL Professional® (2005), AKG Acoustics® (2010) and Lexicon Pro® (2014).
- 5 In 2017, Samsung Electronics Co., Ltd. acquired HARMAN International as a wholly-owned subsidiary.



# STEEPED IN HISTORY AND EXPERTISE

A LOOK THROUGH THE YEARS

**1946**  
**JBL FOUNDED**  
James B. Lansing founded James B. Lansing Sound in South Los Angeles, California.

**1947**  
**AKG FOUNDED**  
AKG was founded in Vienna, Austria in 1947 by two Viennese scientists: physicist Rudolf Görike and engineer Ernst Pless.

**1947**  
**HARMAN / KARDON FOUNDED**  
Harman Kardon was originally founded in Westbury, New York, in 1953, by business partners Dr. Sidney Harman and Bernard Kardon.

**1947**  
**CROWN FOUNDED**  
International Radio and Electronics Corporation (IREC) was established in 1947 by Clarence C. Moore, an Elkhart, Indiana minister. The company started out building rugged, open reel tape recorders for use by missionaries in distant parts of the world.

**1953**  
**HARMAN / KARDON FOUNDED**  
Harman Kardon was originally founded in Westbury, New York, in 1953, by business partners Dr. Sidney Harman and Bernard Kardon.

**1962**  
**FIRST STUDIO MONITORS**  
JBL introduces JBL 4320, the world's first studio monitors, which revolutionized the recording and broadcast industry.

**1962**  
**JBL Professional Series Model 4320 studio monitor**

**1971**  
**LEXICON FOUNDED**  
In 1971, Francis F. Lee founded the Lexicon company, based in Waltham, Massachusetts.

**1971**  
**DBX FOUNDED**  
dbx was founded by David E. Blackmer. The company's goal was to get closer to the realism of a live performance.

**1971**  
**harman/kardon**

**1971**  
**dbx**

**1971**  
**AMX FOUNDED**  
Scott D. Miller founded AMX in 1982. Its first product was the MX20 wireless controller for slide projectors.

**1973**  
**BLACKMER GAIN CELL**  
David Blackmer patents the dbx Blackmer Gain Cell, which became his greatest legacy and a true ahead-of-its-time innovation.

**1973**  
**SOUNDCRAFT FOUNDED**  
Soundcraft was founded by sound engineer Phil Dudderidge and electronics designer Graham Blyth.

**1973**  
**dbx**

**1977**  
**FIRST MODULAR CROSSOVER SYSTEM**  
The BSS MCS Series became the first-ever modular crossover system, offering effective yet inaudible speaker protection.

**1977**  
**BSS FOUNDED**  
BSS was founded as Brooke Siren Systems by Chas Brooke and Stan Gould who combined their talents to produce frequency-dividing systems.

**1977**  
**BSS AUDIO**

**1979**  
**MARTIN FOUNDED**  
The history of Martin began in 1978, when founder Peter Johansen realized how to make a smoke generator from a coffee maker. The company was founded in Aarhus, Denmark, in 1987 and began producing primarily fog machines and a small selection of disco lights.

**1979**  
**Martin**

**1982**  
**AMX FOUNDED**  
Scott D. Miller founded AMX in 1982. Its first product was the MX20 wireless controller for slide projectors.

**1982**  
**AMX**

**1987**  
**CROWN 10,000 WATT AMP**  
Crown's MA10000 provided 10,000 watts of power for 465 speakers at the Indianapolis 500 Motor Speedway.

**1987**  
**MARTIN FOUNDED**  
The history of Martin began in 1978, when founder Peter Johansen realized how to make a smoke generator from a coffee maker. The company was founded in Aarhus, Denmark, in 1987 and began producing primarily fog machines and a small selection of disco lights.

**1987**  
**FLUX:: FOUNDED**  
Taking the world by storm in 2006, FLUX:: emerged as a game-changing immersive audio software innovator. Its groundbreaking technology empowered audio professionals to create truly immersive and captivating sonic experiences in the realm of spatial audio.

**1987**  
**FLUX::**

**1987**  
**Lexicon**

**1987**  
**480L DIGITAL EFFECTS SYSTEM**  
Paired with the Lexicon LARC, these components became must-have tools for world-class studios and were considered by many studio engineers to be the absolute pinnacle of digital reverbs.

**1987**  
**1988**  
**LEXICON RELEASED THE 480L DIGITAL EFFECTS SYSTEM**  
Paired with the Lexicon LARC, these components became must-have tools for world-class studios and were considered by many studio engineers to be the absolute pinnacle of digital reverbs.

**1988**  
**Lexicon**

**1997**  
**AKG IN THE ARCTIC**  
AKG Wireless Mics are used on the "Arctic Northeast" project and provide quality performance, despite low arctic temperatures.

**1997**  
**AKG**

**2002**  
**MAGIC TOUCH**  
AMX launched its revolutionary Modero touch panel family that quickly became the flagship of the AMX product portfolio.

**2002**  
**MAGIC TOUCH**

**2005**  
**JBL WON A TECHNICAL GRAMMY**

**2005**  
**JBL**

**2006**  
**FLUX:: FOUNDED**  
Taking the world by storm in 2006, FLUX:: emerged as a game-changing immersive audio software innovator. Its groundbreaking technology empowered audio professionals to create truly immersive and captivating sonic experiences in the realm of spatial audio.

**2006**  
**FLUX::**

**2010**  
**AKG WON A TECHNICAL GRAMMY**

**2010**  
**AKG**

**2014**  
**LEXICON WON A TECHNICAL GRAMMY**

**2014**  
**Lexicon**

**2016**  
**UNPARALLELED MIXING POWER**  
Soundcraft debuts its Vi2000 Mixing Console that brought unparalleled mixing power to the live touring, install, and corporate AV markets.

**2016**  
**UNPARALLELED MIXING POWER**

**2022**  
**SMART WEATHERPROOFING**  
Martin's MAC Aura XIP revolutionizes temporary outdoor lighting with the addition of XIP smart weatherproofing technology.

**2022**  
**SMART WEATHERPROOFING**

**2022**  
**FLUX::**

**2022**  
**INNOVATION CONTINUES...**  
HARMAN continues to innovate and push the boundaries of the professional audio, video, control, and lighting industries.

**2022**  
**INNOVATION CONTINUES...**



**HARMAN** has established itself as a **powerhouse** in the installation market by seamlessly integrating its portfolio of **iconic** brands, **cutting-edge** products, and **innovative** technologies.

# ELEVATE YOUR SPACE WITH EFFORTLESS INTEGRATION

## Redefining the Installation Landscape

HARMAN offers solutions for diverse verticals, from executive boardrooms to sophisticated stadiums by seamlessly integrating cutting-edge technologies and expertise. Our portfolio of brands, including JBL, AKG, Crown, Martin, AMX, and BSS, empower creators to bring their visions to life with precision and reliability.

Our open-architecture platform ensures compatibility and interoperability with third-party systems, while our expertise in networked solutions, such as Dante, simplifies complex installations. From the clarity of JBL audio to the brilliance of Martin lighting, to the precision of AMX control, HARMAN seamlessly integrates and elevates the human experience.



## Enterprise AVoIP: Ensuring a Scalable Path Forward

When it comes to providing the world's highest-performing and most strategically innovative AV Over IP (AVoIP) solutions, our AMX networked AV portfolio is second to none. While our products literally established the AVoIP industry, they continue to evolve the landscape, delivering unparalleled scalability to easily deliver video to thousands of endpoints, across a range of applications, with the capability to scale to infinite proportions. Our real-world solutions allow customers to create, deploy, and monitor reliable, scalable, and secure AVoIP backbones, backed by legendary AMX products and global service and support.



## Immersive Audio Experiences that Delight the Listener

As the demand for creating truly immersive audio experiences evolves, there is no other provider with more precision expertise, deep insight, and ready-to-deploy solutions than HARMAN. From recording and post-production to scoring and live performances, we have the most comprehensive suite of hardware and software solutions to deliver unparalleled soundscapes, scalable for the ideal listening experience. JBL loudspeakers, Crown amplifiers, and BSS, dbx, and Lexicon Pro signal processing products cover every possible hardware requirement. Our powerful object-based and perceptual immersive mixing solution from FLUX:: provides artists, sound designers, and audio engineers with the tools needed to design, create, and mix captivating and engaging real-time audio experiences.



## Seamless Third-Party Integration for Best-in-Class Systems

HARMAN is committed to evolving technology and user experiences by developing third-party-friendly devices, applications, and platforms that ensure users can create systems using best-in-class components from a variety of manufacturers and technologies. Examples include AMX MUSE Automator. MUSE Automation solutions can be customized by dragging nodes from the palette into the workspace and wiring them together to create logical flows without the need to write a single line of code. MUSE Automator also supports the creation of custom nodes using JavaScript. Also built on a platform that embraces third-party integration, FLUX:: leads the industry in creating immersive audio and allows creators to work with the platforms they prefer, to create the best experiences possible.

**HARMAN** is the architect of immersive experiences, delivering scalable, end-to-end solutions that redefine the installation landscape.



# SOFTWARE SOLUTIONS

## SPAT REVOLUTION

### APPLICATIONS SERVED:

Houses of Worship  
Hospitality  
Tour Sound  
Stadiums  
Immersive Audio

### AN OUTSTANDING IMMERSIVE EXPERIENCE

FLUX:: SPAT Revolution is a powerful object-based and perceptual immersive mixing solution, providing artists, sound designers, and sound engineers the tools to design, create, and mix outstanding real-time immersive experiences. SPAT Revolution seamlessly integrates with a variety of DAWs and playback systems, allowing for local inter-application audio transport and automation.

### FEATURES

**Integrates with a Wide Range of DAWs**  
The FLUX:: AudioPipe technology, available in the SPAT Send and SPAT Return plugins, makes it possible to integrate with a wide range of DAWs, including Ableton Live, Pro Tools, Reaper, and Logic Pro

**Flexible Control**  
Control via tablet, phone, or computer

**Extensive List of Object Parameters**  
SPAT Revolution offers an extensive list of advanced object parameters based upon how humans perceive sound

**Easily Adapt to Unique Speaker Arrangements**  
SPAT Revolution doesn't favor any output format or speaker system. This makes it just as easy to create a Dolby 7.1.4 system mix to adapt to any other unique speaker arrangement

**Advanced Reverb Engine**  
The result of years of research from IRCAM developers, SPAT's reverb engine enables it to create an exceptionally natural acoustic simulation - the most fundamental element of a truly immersive experience

**Multi-OS Compatibility**  
Windows, macOS, Android



## VENUE SYNTHESIS

### APPLICATIONS SERVED:

Houses of Worship  
Hospitality  
Tour Sound  
Stadiums  
Immersive Audio

### DESIGN IN NEW DIMENSIONS

Venue Synthesis allows system designers and engineers to accurately predict the acoustical and mechanical performance of JBL sound systems. The streamlined and intuitive user interface expedites the entire design process, allowing system designers to transition from conception to deployment in record time. The new advanced acoustic engine generates high-resolution simulations to accurately match real-life performance, while the sophisticated mechanical engine generates precise system reports and array statistics.



### FEATURES

**3D Full System Mapping**  
Precise, full mapping of acoustic coverage on any audience and architectural plane

**2D System View**  
Visualize coverage, impact points, and loudspeaker angles

**Special Object Creator**  
Quickly create common architectural and audience areas

**Import Drawing**  
Import and trace 2D schematics to quickly model venues at scale

**Delay Optimizer**  
Optimize loudspeaker delays for the venue

**System Groups**  
Organize and link loudspeakers based on acoustic properties

**Safety Warning Notification System**  
Safety and reliability alerts in real-time

**Mechanics Tools and Array Statistics**  
Ensures safe rigging and adherence to regulatory requirements

**Headroom Warning**  
Using lab-verified SPL data, if loudspeaker limits are exceeded, a warning provides specific headroom data, so users can reduce levels accordingly

## AVX suite

### APPLICATIONS SERVED:

Houses of Worship  
Hospitality  
Tour Sound  
Stadiums  
Immersive Audio

### CREATIVITY AT YOUR FINGERTIPS

AVX Suite™ streamlines the configuration, control, monitoring, and management of BSS Soundweb OMNI systems through three user-friendly applications, AVX Architect™ for system configuration, AVX Control™ for day-to-day system operation, and AVX Manager™ for system management. AVX Suite provides the tools needed to design and manage highly scalable and flexible system solutions.



### FEATURES

**Unified suite of purpose-built apps**

- AVX Architect for system illustration, device configuration, and custom UI creation
- AVX Control for system operation
- AVX Manager device and network setting management

**Flexibility**  
Choice of centralized or distributed DSP topologies

**Scalability**  
Unlimited Soundweb OMNI processors can be added to a single project file

**Open-Architecture**  
Single canvas, multi-device configuration of open-architecture DSP

**Connectivity**  
HARMAN HControl protocol, and private and public routing for Dante

**Access custom UIs on any OS**  
Windows, macOS, Android, iOS, and even AMX Varia touch panels

**User-friendly**  
Modernized Custom UI Builder

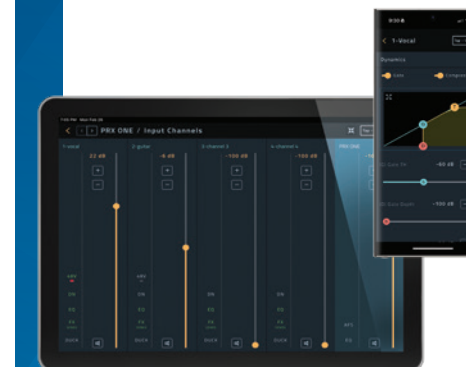


### APPLICATIONS SERVED:

Houses of Worship  
Hospitality

### CONTROL AT YOUR FINGERTIPS

JBL Pro's universal control application just got even more connected. Explore endless possibilities before you even pair, with fully contained demo mode. New full screen resolution, mix out pre/post-fader support, snapshot language feature, and more elevate the user experience, right at your fingertips. JBL Pro Connect puts control in your hands so you can sound amazing even before you begin your performance.



### FEATURES

**Streamlined Control**  
Manage mixer and DSP functions, as well as a variety of pre-loaded presets

**Bluetooth 5.0 Functionality**  
Connect and sync up to 10 JBL Pro Connect-enabled speakers

**Personalize Your Workflow**  
Group speakers for mixing, rename channels for traditional channel strip functionality, and more

**Demo Mode**  
Explore app capabilities and configure and save system settings and presets without being connected to speakers

**Full-Screen Mode**  
Offers a higher degree of resolution for editing and adjusting faders, and more

**MIX OUT Pre/Post-Fader Support**  
Switch between pre/post-faders to match use-case scenarios

**Snapshot Language Support**  
Save snapshots in a variety of select local languages when the keyboard has been loaded to the device

## HARMAN'S EDUCATION INTEGRATED SOLUTIONS BENEFITS BREAKDOWN



### IMMERSIVE EXPERIENCES FOR FOCUSED LEARNING

Our integrated audio, video, control, and lighting solutions are transforming campuses, creating an immersive learning experience that truly captivates students.



### STREAMLINING LESSON DELIVERY

Empowering instructors, our intuitive control systems simplify the user experience and eliminate the hassles of dealing with complex technology.



### SIMPLE CONFIGURATION MANAGEMENT

IT professionals and technology managers can easily manage their system and components, including HETMA- and other education alliance-approved products, through a unified, user-friendly interface.



### OPTIMIZE INFRASTRUCTURE SPEND

Our premium solutions deliver exceptional value, empowering impactful and engaging learning experiences and growing the reputation of your institution.

# EDUCATION

## Shaping and Streamlining Dynamic Learning Environments

Academics should be engaging and enjoyable for students and rewarding for faculty. At HARMAN, we inspire educational institutions worldwide to create dynamic learning environments. Our leading-edge audio, video, control, and lighting systems are crafted to enhance the educational experience, fostering an atmosphere where learning and development thrive. We offer custom-tailored solutions for diverse educational settings, from sprawling campuses and classrooms to lecture halls and hybrid learning centers.

Our brands support some of the world's most sophisticated universities and set a higher standard in academic circles. As just one example, the Higher Education Technology Managers Alliance (HETMA) includes HARMAN products in its Approved Program that provides specifiers and integrators with suggestions for reputable product choices in their designs. We're not just respected; we're synonymous with quality, innovation, performance, and reliability.

We share your passion and are committed to your institution's success. By deeply understanding your unique needs, we deliver solutions that are truly one-of-a-kind and partner with you every step of the way to engage and inspire your community.

At HARMAN, our lineup includes renowned brands like AMX, BSS, JBL, Crown, and Martin that have transformed campuses of all sizes and disciplines. As pioneers, we continuously reshape the educational landscape to ensure we can exceed your goals and vision. From installation to ongoing support, our experts are dedicated to your success. Let us be your partner for creating dynamic learning environments that ignite curiosity and inspire learning.

FLAME UNIVERSITY, INDIA



UNIVERSITY OF NORTHAMPTON WATERSIDE, ENGLAND



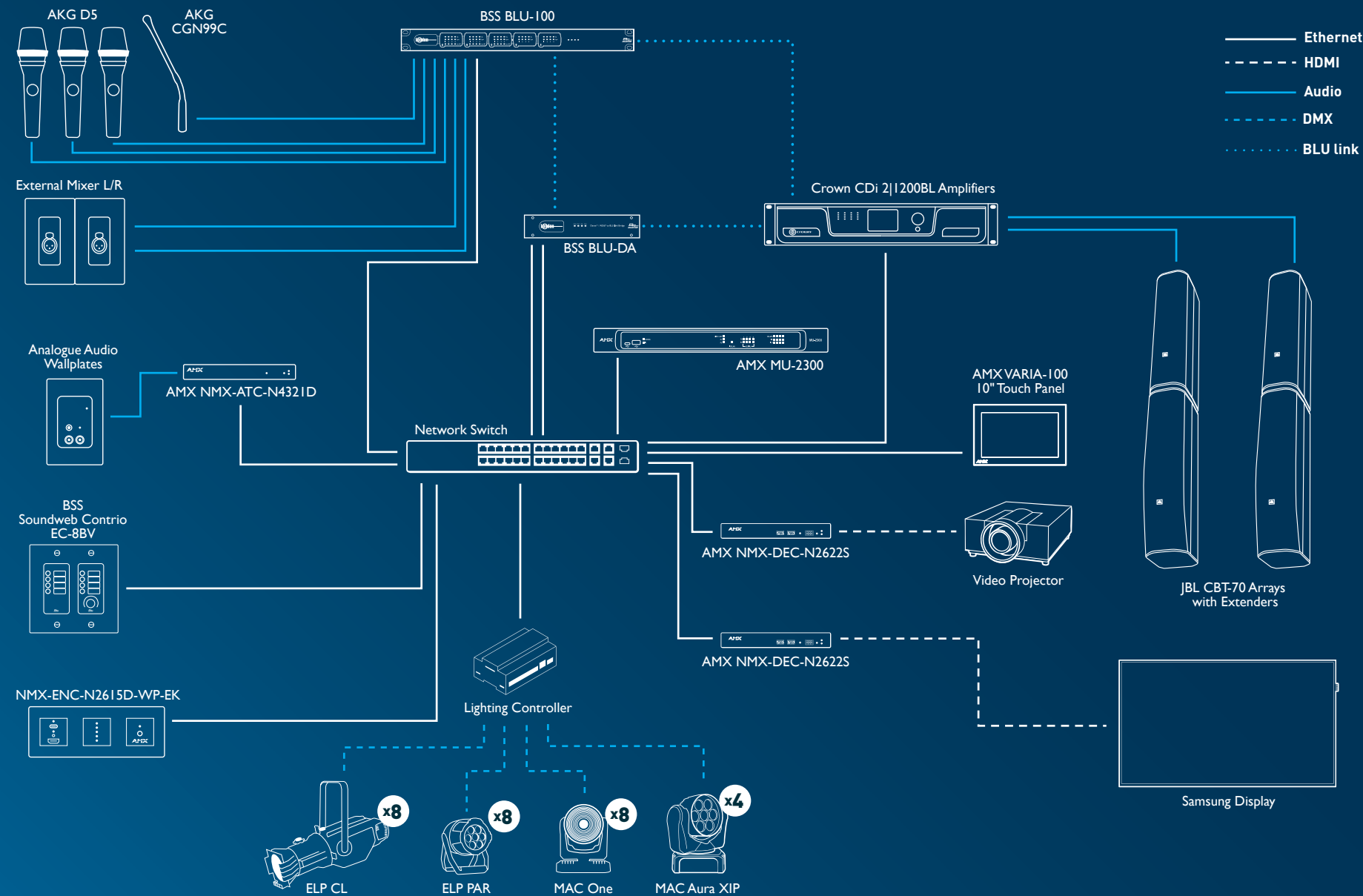
JAMES COOK UNIVERSITY, AUSTRALIA



BILINGUAL CANADIAN INTERNATIONAL SCHOOL, VIETNAM



# EDUCATION APPLICATION DIAGRAM



\*APPLICATION SUGGESTIONS ONLY

# RECOMMENDED PRODUCTS

**AMX**

**VARIA**  
Professional-Grade, Persona Defined Touch Panels

- Designed to adapt to the needs of applications by offering a selection of personas
- Range of screen sizes and mounting configurations to work in a variety of scenarios
- Any-color side LEDs can be programmatically configured to any of over 1 million colors

**AKG**

**DYNAMIC MICROPHONE SERIES**  
D5 Dynamic Microphone

- Patented, laminated Varimotion diaphragm
- High feedback suppression with supercardioid polar pattern
- Dual shock mount of microphone capsule

**BSS**

**BLU-DA**  
Dante™ / AES67 to BLU link Bridge

- Configurable through HiQnet™ Audio Architect
- EN 54-16 compliant for life-safety applications
- Rich palette of logic objects provide a simple and familiar design environment

**JBL**

**CBT SERIES**  
CBT 70 Arrays with Extenders

- Constant Beamwidth Technology
- Asymmetrical Vertical Coverage
- Complex analog delay beam-forming

**Martin**

**MAC AURA XIP**  
Wash Fixture with Smart Outdoor Protection

- Premium moving head wash with radical aura filament effect and full pixel control
- First fixture in its class rated for outdoor use, with near zero compromises in weight, size & aesthetics
- Raises bar for optical quality with even wash field with soft edge and minimal stray light

**Martin**

**MAC ONE**  
Creative BeamWash Moving Head

- Narrow, high-intensity beam packs same punch as larger fixtures
- Stunning Fresnel lens creates soft wash with 4 to 27-degree zoom
- Innovative backlight system with 24 RGB effect LEDs

PRODUCTS USED

AKG

- WMS420 Wireless Microphone Systems

AMX

- SVSI N Series Encoders and Decoders
- Acendo Book Wall-Mounted Touch Panels
- MXD Touch Panels
- MST Touch Panels
- Acendo Vibe ACV-2100 Soundbars

BSS

- BLU-50 Signal Processors
- BLU-100 Signal Processors

CROWN

- CDI Series Amplifiers

JBL

- CBT Series Loudspeakers
- Control 23-I Loudspeakers
- Control 65 P/T Loudspeakers
- SRX818SP Subwoofers



UNIVERSITY OF NORTHAMPTON WATERSIDE, ENGLAND



OPPORTUNITY

To create a modern, 21st-century learning environment at its new Waterside campus, the University of Northampton required a state-of-the-art campus-wide networked AV solution.



SOLUTION

The University of Northampton, serving over 12,000 students, built a state-of-the-art campus in Northampton's Waterside district to support flexible, collaborative learning. The campus features cutting-edge HARMAN AV solutions, including AMX, JBL, Crown, BSS, and AKG equipment, provided by Midwich and installed by Kinly. Key technologies include networked AV systems, 4K video streaming, and advanced audio solutions for 170+ flexible teaching spaces. This integrated system supports the university's Active Blended Learning approach. "With a single supplier, the technology delivers seamless, user-friendly experiences," said Andrew Taylor, Digital Services Manager. The project sets a global benchmark for digital campuses.



INSTALLATION SPACES

- Lecture Halls
- Common Areas

**“We were able to provide Northampton with a cutting-edge HARMAN AV solution that enables the university to create an advanced collaborative learning environment with extraordinary flexibility.”**



SEE THE FULL CASE STUDY



TEXAS A&M UNIVERSITY, USA



OPPORTUNITY

To facilitate student engagement while simplifying operation for instructors, the Innovative Learning Classroom Building (ILCB) at Texas A&M required a sophisticated networked AV system.



SOLUTION

Texas A&M University, serving over 71,000 students, launched the Innovative Learning Classroom Building (ILCB) as part of its campus expansion. The ILCB includes 10 unique learning spaces, ranging from small studios to arena-style lecture halls, designed for flexibility and collaboration. Avinext and Shalleck outfitted the facility with AMX AV systems, JBL speakers, and a Soundcraft Vi3000 console for seamless control, premium sound, and flexible audio-video routing. These technologies enhance teaching and learning while simplifying operation. The ILCB sets a benchmark for innovative education and marks the beginning of Texas A&M's "10 in 10" expansion program.



INSTALLATION SPACES

- Lecture Halls

**“The AMX user interface has helped us know how far we can push the envelope; how far we can expand.”**



SEE THE FULL CASE STUDY

PRODUCTS USED

AMX

- Hydraport HPX Table Module
- Modero G5 Touch Panels
- NetLinX NX Integrated Controller
- SVSI N2400 Series Encoders And Decoders

JBL

- Control 29AV-1 Wall-Mounted Loudspeakers
- Control 47HC High-Ceiling Speakers
- Control 67 HC/T Pendant Speakers

Soundcraft

- Soundcraft Vi3000 Console

PRODUCTS USED



- Acendo Vibe ACV-5100BL Soundbars
- MD-702 Touch Panels
- MSA-MMK-07-7 Glass Mounting Kits
- SVSI Encoders and Decoders
- NetLinX-1200 Controllers



- BLU-806 Signal Processors



- DCi 8|300 N Amplifiers



- Control 65 P/T Pendant Speakers

UNIVERSITY OF WESTERN AUSTRALIA, PERTH



OPPORTUNITY

To provide an optimal student experience in the new EZONE learning space, the University of Western Australia required robust AV systems to support a wide range of applications.

SOLUTION

Located at the University of Western Australia's Perth campus, EZONE is a cutting-edge STEM learning hub designed for conferences, seminars, and collaborative study. To support diverse activities, UWA partnered with 3D Audio Visual to install a HARMAN networked AV system featuring JBL Control pendant speakers, Crown amplifiers, AMX touch panels, and BSS signal processors. The system ensures seamless AV control and high-quality sound, even in the glass-heavy architecture. "The setup offers great flexibility for future expansion," said Clifton Newton, UWA's AV Manager, highlighting EZONE's adaptability for teaching and research.

INSTALLATION SPACES

- Classrooms

**"We are delighted with the HARMAN system. The entire system offers great flexibility for the future, if and when we decide to expand."**



SEE THE FULL CASE STUDY

NORWEGIAN ACADEMY OF MUSIC, NORWAY



OPPORTUNITY

The Norwegian Academy of Music—Norway's largest university-level music conservatory—needed to upgrade the existing sound system in its prestigious Lindeman Hall.

SOLUTION

The Norwegian Academy of Music (NMH) in Oslo, Norway's largest music conservatory, recently upgraded the sound system in Lindeman Hall, its main concert venue. Originally founded in 1883 and officially established in 1973, NMH selected LydRommet to enhance Lindeman Hall's audio capabilities. LydRommet installed JBL VTX A8 line array speakers, replacing older VerTec Series systems. This setup, which includes 25 VTX A8 speakers and six F18 subwoofers, integrates with existing Crown I-TECH HD Series amplifiers for improved sound quality and sustainability. The JBL VTX A8 system provides exceptional coverage and clarity, enhancing NMH's diverse musical performances and aligning with its environmental goals.

INSTALLATION SPACES

- Concert Hall

**"The coverage of the VTX A8 speakers is perfect for the size of the hall, and its flat frequency response sounds very natural, yielding versatility for different music styles."**



SEE THE FULL CASE STUDY

PRODUCTS USED



- ITECH 4x3500HD Amplifiers



- VT4883 Subwoofers
- VT4886 Line Array Speakers
- VTX A8 Line Array Speakers
- VTX F18S Subwoofers

## ONE HARMAN ONE SOLUTION

### Unleash Your Vision with HARMAN

HARMAN Professional Solutions offers a world-class ecosystem of audio, video, control, and lighting solutions designed to elevate your projects and installations. With a rich history and a commitment to innovation, we deliver comprehensive solutions, tailored to your specific needs. From concert halls to boardrooms, our products are built to perform at the highest levels, ensuring a second-to-none user experience.

### Unleash the Power of Synergy

Our portfolio of iconic brands, including JBL, Martin, AKG, AMX, and BSS, come together to create immersive, interactive, and integrated solutions. This powerful combination delivers unparalleled audio, video, control, and lighting experiences. By seamlessly integrating our solutions, you can design environments that captivate audiences, enhance productivity, and drive business growth. We're not just providing products; we're delivering the foundation for extraordinary experiences.

### Experience HARMAN Excellence

At HARMAN, we're dedicated to exceeding your expectations. Our cutting-edge technology, combined with unparalleled performance, reliability, and support, empowers you to create extraordinary experiences. With a focus on innovation and customer satisfaction, we're your trusted partner in bringing visions to life.

## EXPERIENCE HARMAN PROFESSIONAL SOLUTIONS

### Step into the Future with HARMAN Professional Solutions

HARMAN Professional Solutions elevates your experience with a global network of Experience Centers. These state-of-the-art facilities showcase our next-generation technologies and integrated solutions within immersive environments. At the heart of these Experience Centers lies a commitment to fostering collaboration, integration, and innovation.

### Explore the Possibilities

When visiting any of our Experience Centers, we invite you to interact with HARMAN experts and explore our comprehensive range of audio, video, control, and lighting solutions. You'll have the opportunity to experience firsthand how HARMAN's integrated ecosystem transforms projects across corporate spaces, hospitality venues, houses of worship, and live entertainment environments.

### Experience Real-World Scenarios

HARMAN Experience Centers don't just tell; they show. Through meticulously designed environments, experience seamless integration of HARMAN's solutions, delivering unparalleled audio, visual, control, and lighting experiences. Whether it's a simulated concert hall or an interactive executive boardroom, our immersive solutions showcase the immense possibilities unlocked by HARMAN technologies.

### Innovation Hubs

Beyond showcases, Experience Centers are unifying hubs for collaboration. Our experts work with customers and partners to explore new ideas and develop tailored solutions. This collaborative approach ensures HARMAN offerings remain at the forefront of innovation, continuously evolving to meet and exceed your needs and requirements.

### Explore our World

We warmly welcome you to explore our global network of world-class Experience Centers. Schedule a visit, and discover for yourself how HARMAN Professional Solutions can elevate your projects and installations: [pro.harman.com/lp/harman-experience-centers](http://pro.harman.com/lp/harman-experience-centers).



#### LOCATIONS

- Los Angeles, USA
- London, UK
- Shanghai, P.R.C.
- Singapore, Asia
- Bangalore, India





# INSTALL SOLUTIONS 2025

Contact us:



**AKG**

**AMX**



**dbx**

**FLUX::**



**lexicon**

**Martin**

Soundcraft