



SOLUTION GUIDE

# STADIUMS AND ARENAS

System Solutions to Fuel Excitement



HARMAN Professional Solutions Brands:



# STADIUMS AND ARENAS

Stadiums and arenas are where the action happens. To give spectators a truly immersive experience, the venue needs the right audio and visual technology throughout. HARMAN is the partner who can do it all, including stunning architectural lighting outside the facility, clear and powerful audio and lighting in the bowl, digital signage in guest suites, and a continued, connected experience in back of house areas. HARMAN also has a unique method of configuring, programming, and controlling distributed audio systems using either AVB, CobraNet®, Dante™, or HARMAN's own BLU link – a unified strategy known as "ABCD". While HiQnet Audio Architect™ software manages the audio system, AMX's Rapid Project Maker (RPM) and Resource Management Suite (RMS) software handles the setup, configuration and maintenance of guest suites. With HARMAN, stadium operators can easily manage audio, video, control and lighting so they can focus on the real objective: Impressing visitors.



## COMMON ACTIVITIES / REQUIREMENTS

HARMAN solutions leverage our best-in-class brands to deliver the optimal audio, video, lighting and control experience for all operations in stadiums and arenas, including:

- Bowl Audio
- Bowl and Architectural Lighting
- Back of House
- Suites



# BOWL AUDIO

Bowl audio is at the crux of the entertainment provided by the venue. Stadium owners are always looking for ways for their guests to appreciate the premium price they are paying to actively partake in the experience rather than passively observing from home on the couch. While the central focus of the experience may be what's on the field, having robust, impactful audio at every seat is crucial to creating an immersive experience spectators cannot get anywhere else. Your spectators may not know it, but HARMAN is a veteran that has been in the game far longer than their favorite player. From industry-leading line array loudspeakers and amplifiers, to incredibly flexible processing and control, HARMAN always gives 110%.



## KEY HARMAN PRODUCTS



**JBL Installed Sound** loudspeakers provide clear and powerful audio at many of the world's most notable stadiums and arenas. With leading-edge technical innovation and unrivaled product breadth, JBL has been the professional loudspeaker of choice for over 60 years.



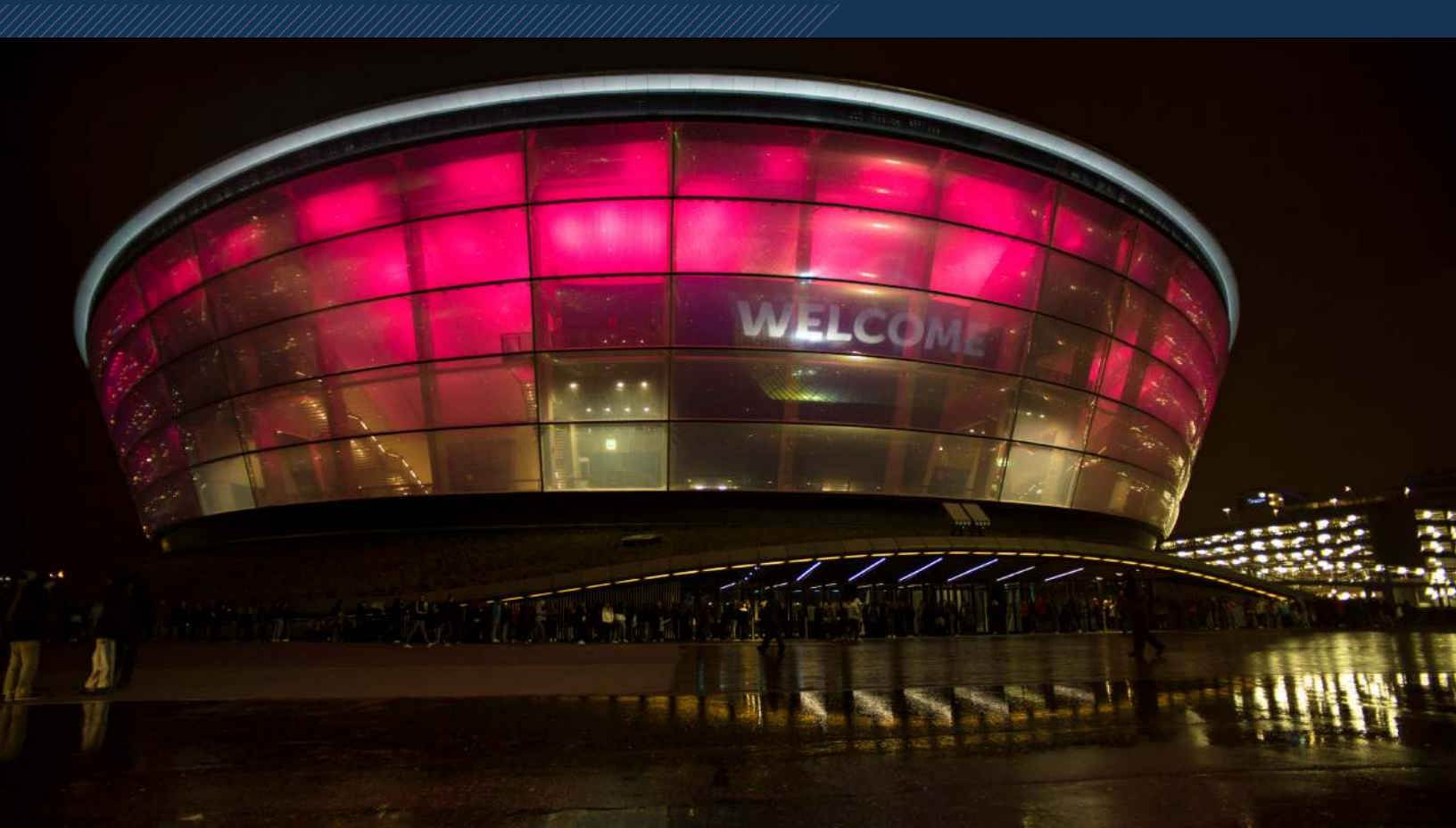
Designed to handle the most intense processing scenarios, the **BSS Audio Soundweb London Series** signal processors can intelligently manage audio processing, routing, and more from a variety of audio transports including Dante, AVB, CobraNet, and HARMAN's own BLU link.



**Crown DriveCore™ Install Network Series** amplifiers provide an incredibly diverse mix of channel count and output power across 10 different models. Add in BLU link and high-level DSP and this amplifier line is capable of handling virtually any task.

# BOWL AND ARCHITECTURAL LIGHTING

Audio is but one key component of the immersive experience that thrills visitors in a stadium or arena; they also enjoy a visual experience that supports the action on the field and provides a stimulating ambiance. HARMAN offers lighting solutions that enhance the entire experience, from architectural lighting that turns the outside of the stadium into a work of art to dynamic bowl and special event lighting solutions that include flexible and customizable flood, linear, and image projection lighting and associated lighting controllers.



## KEY HARMAN PRODUCTS



**Martin Professional** offers everything you need to create the right atmosphere, including professional lighting systems, fog generators and controllers.



The **Martin M6 Console** is a state-of-the-art lighting console that functions as a highly advanced visual control surface that's designed to control everything from conventional and moving lights to the most advanced media server.



**Martin Exterior Lighting** offers dynamic lighting solutions such as flood, linear, image projection and more, along with the control solutions that make your stadium or arena shine.



# BACK OF HOUSE

The entertainment may reside in the bowl, but each guest will spend a large amount of time in the back of house. Concessions, restrooms, and souvenir shops make the back of house experience an active part of the show – it's much more than an entrance and exit. Appropriately designed back of house audio, including paging and background music, can be difficult to achieve given the architectural acoustics of the building, which is why Harman has an incredible range of loudspeaker options and accompanying audio processing to allow for seamless – but not lifeless – transition from the bowl to the back of house. Visitors who wait in line for concessions and souvenirs expect to stay on top of the action on the field, which is why HARMAN digital signage and video distribution solutions are ideal for streaming the action or spreading the message. HARMAN can help make the entire building part of the experience.



## KEY HARMAN PRODUCTS



**BSS Audio Soundweb Control Wall Controllers** make it simple to customize the audio profile in different areas or zones. These

advanced, yet approachable, POE wall controllers streamline the controls you need, where you need them, without exposing controls that should remain hidden from the everyday operator.



**JBL Professional** offers a wide range of premium, in-ceiling, specialty loudspeakers that combine outstanding pattern control and consistent coverage with superior sonic performance.



**Martin Professional LED grids** are useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort. Their compact size makes them extremely suitable for integration into creative ceilings, stage designs, set elements, lobbies and much more.

# SUITES

Suites are where you cater to your VIP visitors. These spaces need the flexibility to allow guests to interact in a variety of ways, including watching other events on displays during the event or even conducting a business meeting during halftime. AMX by HARMAN is an industry leader at providing the systems that make it simple for visitors to take control of their environment, including control panels that allow them to select what they view on the displays, presentation switchers that manage the behind-the-scenes audio and video switching, and devices that allow visitors to connect laptops and other devices and view content on the displays.



## KEY HARMAN PRODUCTS



**AMX** meeting room and digital signage solutions work behind the scenes to ensure that luxury suites can accommodate any type of video content, including HD video, PowerPoint presentations and much more.



**AMX / SVSI** video-over-IP solutions efficiently manage the distribution of video within a room, over the LAN or across the WAN.

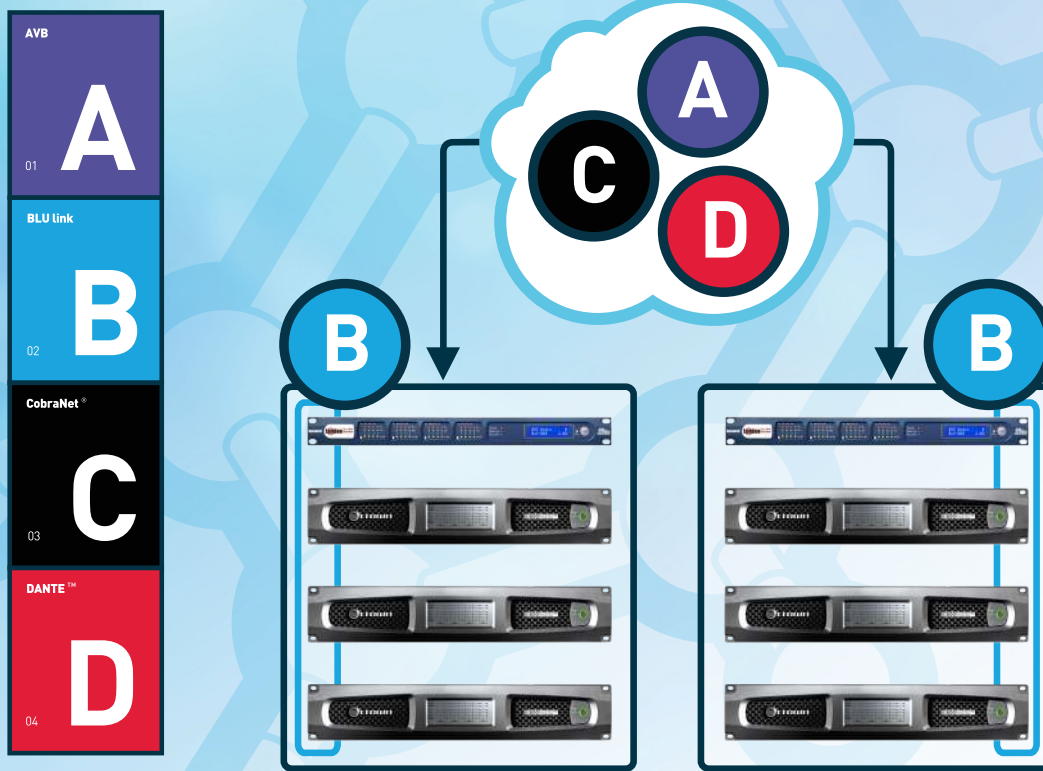


**AMX Control Panels** are a single point of control for all your technology. These premium, elegant control surfaces integrate all the functionality you need into a single, streamlined interface that looks great in any setting.

# ABOUT HARMAN ABCD

HARMAN's Crown and BSS brands offer AVB, CobraNet and Dante audio transport solutions through the use of BLU link, programmed and controlled through HiQnet Audio Architect software. Our unique audio transport solutions drastically cut down on costs associated with network audio infrastructure and operations.

BLU link allows for local distribution of audio originating in AVB, CobraNet, or Dante without the added costs and complexities of those technologies in each individual amplifier.



## KEY HARMAN PRODUCTS



The **Crown® DriveCore™ Install** series amplifiers is a complete line of high performance installation amplifiers based on the proprietary DriveCore technology. DCi Series amplifiers are designed, engineered and manufactured to the industry's highest quality standards, and provide system integrators with the advanced features and flexibility required for challenging 21st century installed sound applications.



**BSS® Soundweb London Series Digital Signal Processors (DSP)** provide perfect sound for every occasion. With intelligent automatic volume adjustment capabilities and the ability to integrate with Soundcraft mixers over BLU Link, the BSS Soundweb DSPs ensure quality sound every time.



# FOR MORE INFORMATION

The HARMAN Professional website ([www.harmanpro.com](http://www.harmanpro.com)) contains a wealth of information on HARMAN Solutions for Large Venues and other spaces.

You can also contact your HARMAN Professional Sales Professional or Preferred Dealer/Integrator. Don't know whom to contact? Email [stadiumsarenas@harman.com](mailto:stadiumsarenas@harman.com).

## HARMAN – YOUR IDEAL GLOBAL PARTNER



### About HARMAN Professional Solutions

HARMAN Professional Solutions is the world's largest professional audio, video, lighting, and control products and systems company. We serve the entertainment and enterprise markets with comprehensive systems, including enterprise automation and complete IT solutions for a broad range of applications. 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, including tour, cinema and retail as well as corporate, government, education, large venue and hospitality. In addition, our world-class product development team continues to innovate and deliver groundbreaking technologies to meet our customers' growing needs. For scalable, high-impact communication and entertainment systems, HARMAN Professional Solutions is your single point of contact.

