

## PARTNER STORY



## GOVERNMENT



### OPPORTUNITY

Part of Thailand's Ministry of Defense, the Office of the Permanent Secretary required a flexible, state-of-the-art AV and control solution for presentations and events in its multipurpose hall.



### SOLUTION

Mahajak Development outfitted the Office of the Permanent Secretary for Defense with a fully configurable, end-to-end HARMAN Professional Solutions networked AV and control system.

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The client needed cutting-edge AV and stage lighting systems for a multipurpose hall that seats 1,500 people.”

### OFFICE OF THE PERMANENT SECRETARY FOR DEFENSE, THAILAND

Part of Thailand's Ministry of Defense, the Office of the Permanent Secretary is responsible for determining strategic goals, executing plans, drafting policy, and the inspection and monitoring of the Royal Thai Armed Forces. Occupying a grand, nine-story building with multiple wings outside Bangkok, the organisation's headquarters includes a multipurpose hall which can seat 1,500 and be divided into two separate spaces on demand. To ensure world-class sound, video, lighting and control for presentations and events, the Office of the Permanent Secretary deployed a range of solutions from JBL Professional, Crown, Soundcraft, BSS, Martin Professional and AMX.

“The client needed cutting-edge AV and stage lighting systems for the multipurpose hall that seats 1,500 people,” said Pongsakorn Kanchanachayphoom, Project Director, Mahajak Development Co. Ltd. “A robust and flexible solution was necessary to facilitate different types of events. Evaluating these requirements, we designed a system with HARMAN's industry-leading networked AV and lighting solutions, providing the client with the required flexibility and allowing them to upgrade the platform in the future.”

To achieve crystal-clear sound reinforcement in multiple room configurations, the Office of the Permanent Secretary installed a range of JBL loudspeakers in the main hall. When the hall is divided, 15-inch JBL AM7215 speakers serve the larger half, while 12-inch AM7212 models serve the smaller half. The speakers can be combined for maximum coverage across the entire hall, and the entire system is augmented by STX828S dual 18-inch bass reflex subwoofers. JBL PRX800-Series monitors ensure crystal-clear sound for speakers and guests onstage. JBL Control 328CT 8-inch coaxial ceiling loudspeakers provide additional coverage outside the hall.

The Office of the Permanent Secretary selected Crown amplifiers to power the sound system, including the advanced XTi 2 Series and the cost-effective CDi 1000. Two Soundcraft Si Expression 3 digital mixing consoles were installed, which provide a flexible, streamlined solution with plenty of inputs and a color-coded FaderGlow



AKG

AMX

BSS



dbx



lexicon

Martin

Soundcraft

STUDER



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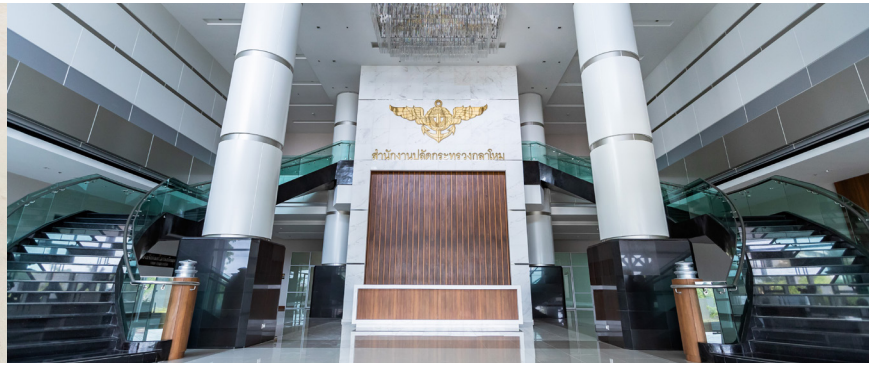
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interface for ease of use. Networked together via a BSS Soundweb London BLU-100 signal processor, the two consoles can easily be configured to function independently or together, depending on the room configuration.

To illuminate the stage efficiently, the Office of the Permanent Secretary deployed energy-saving Martin MAC Quantum Series LED lighting fixtures. The MAC Quantum Profile serves as a main spotlight, while the MAC Quantum Wash provides rich, even washes of color. Both fixtures feature Precise CMY color mixing and a variety of effects controlled by DMX. The hall also features 350- and 300-inch screens as well as 4K HMDI projectors equipped with projector lifts for accurate positioning and stowing when not in use. To control the integrated AV and lighting systems effectively, the facility is equipped with AMX touch panels. The control room, located next to the stage, features a 4.3-inch AMX wall-mount touch panel, while the facility's main meeting room features a 9.7-inch panel.

“We wanted a system that would enliven the atmosphere of the multipurpose hall during seminars, performances and other events for our guests,” said a spokesperson for the Office of the Permanent Secretary for Defense. “HARMAN's diverse portfolio of products are easy to learn and manageable to support. They fulfilled every criterion of our request.”

“HARMAN is honored to be associated with the Office of the Permanent Secretary for Defence, and to be able to extend customized, multifaceted solutions through a unified platform,” said Ramesh Jayaraman, VP & GM, HARMAN Professional Solutions, APAC. “We thank Mahajak for providing exceptional audio-visual and lighting solutions, and for creating an exceptional space that heightens the audience experience while encouraging participation.”



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#### PRODUCTS USED

**AMX MODERO TOUCH PANELS**

**BSS SOUNDWEB LONDON BLU-100 SIGNAL PROCESSORS**

**CROWN CDI 1000 AMPLIFIERS**

**CROWN XTI 2 SERIES AMPLIFIERS**

**JBL AM7215 LOUDSPEAKERS**

**JBL AM7212 LOUDSPEAKERS**

**JBL STX828S SUBWOOFERS**

**JBL PRX800-SERIES MONITORS**

**JBL CONTROL 328CT CEILING LOUDSPEAKERS**

**MARTIN MAC QUANTUM PROFILE LIGHTING FIXTURES**

**MARTIN MAC QUANTUM WASH LIGHTING FIXTURES**

**SOUNDCRAFT SI EXPRESSION 3 MIXING CONSOLES**

#### ABOUT HARMAN

HARMAN (harman.com) designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, enterprise automation solutions; and services supporting the Internet of Things. With leading brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, Mark Levinson® and Revel®, HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world. More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN has a workforce of approximately 30,000 people across the Americas, Europe, and Asia. In March 2017, HARMAN became a wholly-owned subsidiary of Samsung Electronics Co., Ltd.



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